



## **Cisco Nexus 3548 NX-OS Command Reference (Show Commands), Release 9.3(1)**

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## Preface

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This preface includes the following sections:

- [Audience, on page lxiii](#)
- [Documentation Conventions, on page lxiii](#)
- [Documentation Feedback, on page lxiv](#)
- [Communications, Services, and Additional Information, on page lxiv](#)

## Audience

This publication is for network administrators who install, configure, and maintain Cisco Nexus switches.

## Documentation Conventions

Command descriptions use the following conventions:

| Convention    | Description   |
|---------------|---|
| <b>bold</b>   | Bold text indicates the commands and keywords that you enter literally as shown.  |
| <i>Italic</i> | Italic text indicates arguments for which the user supplies the values.   |
| [x]           | Square brackets enclose an optional element (keyword or argument).  |
| [x   y]       | Square brackets enclosing keywords or arguments separated by a vertical bar indicate an optional choice.  |
| {x   y}       | Braces enclosing keywords or arguments separated by a vertical bar indicate a required choice.  |
| [x {y   z}]   | Nested set of square brackets or braces indicate optional or required choices within optional or required elements. Braces and a vertical bar within square brackets indicate a required choice within an optional element. |
| variable      | Indicates a variable for which you supply values, in context where italics cannot be used.  |

| Convention | Description   |
|------------|---|
| string     | A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks. |

Examples use the following conventions:

| Convention                  | Description   |
|-----------------------------|---|
| <code>screen font</code>    | Terminal sessions and information the switch displays are in screen font.                                 |
| <b>boldface screen font</b> | Information you must enter is in boldface screen font.  |
| <i>italic screen font</i>   | Arguments for which you supply values are in italic screen font.  |
| <>                          | Nonprinting characters, such as passwords, are in angle brackets.   |
| [ ]                         | Default responses to system prompts are in square brackets.   |
| !, #                        | An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line. |

## Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to . We appreciate your feedback.

## Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at [Cisco Profile Manager](#).
- To get the business impact you're looking for with the technologies that matter, visit [Cisco Services](#).
- To submit a service request, visit [Cisco Support](#).
- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit [Cisco Marketplace](#).
- To obtain general networking, training, and certification titles, visit [Cisco Press](#).
- To find warranty information for a specific product or product family, access [Cisco Warranty Finder](#).

### Cisco Bug Search Tool

[Cisco Bug Search Tool](#) (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.





## Notice

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# Notice



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**Warning**

This document should be used only as a glossary reference for possible commands. The listing of a command in this document does not guarantee that the command is available or supported for your platform or application.

The command information in this reference document is auto-generated from the NX-OS source code. While we attempt to manually remove unsupported, deprecated, or internal-use commands, such commands may occasionally appear in this document. Also, with the large variety of hardware platform combinations using NX-OS software, some listed commands may not be applicable or recommended for a specific platform. Platform-based dependency information is not provided in this command reference.

We strongly encourage you to refer to the configuration guides for appropriate commands to configure and operate a feature. Command limitations, restrictions, and recommendations are documented only in the configuration guides. When in doubt, please consult your Cisco representative.

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## PART I

# All Show Commands

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## A Show Commands

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# show aaa accounting

```
show aaa accounting [ __readonly__ [ TABLE_acctMethods <service> <methods> ] ]
```

## Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information                              |
| aaa                      | Show aaa information   |
| accounting               | Show accounting configuration                                |
| <i>__readonly__</i>      | (Optional)   |
| <i>TABLE_acctMethods</i> | (Optional)   |
| <i>service</i>           | (Optional) service type                                      |
| <i>methods</i>           | (Optional) Accounting methods configured for the application |

## Command Mode

- /exec

# show aaa authentication

show aaa authentication [ \_\_readonly\_\_ [ TABLE\_AuthenMethods <service> <method> ] ]

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                       |
| aaa                 | Show aaa information                                  |
| authentication      | Show authentication configuration                     |
| __readonly__        | (Optional)  |
| TABLE_AuthenMethods | (Optional)  |
| <i>service</i>      | (Optional) Service for which authentication is needed |
| <i>method</i>       | (Optional) Authentication method used for the service |

## Command Mode

- /exec

## show aaa authentication login

```
show aaa authentication login { mschap | mschapv2 | chap } [ __readonly__ [ <mschap_status> ] [
<mschapv2_status> ] [ <chap_status> ] ]
```

### Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information                          |
| aaa                    | Show aaa information                                     |
| authentication         | Show authentication configuration                        |
| login                  | Show authentication login error message configuration    |
| mschap                 | Show authentication login MSCHAP enable configuration    |
| mschapv2               | Show authentication login MSCHAP V2 enable configuration |
| chap                   | Show authentication login CHAP enable configuration      |
| __readonly__           | (Optional)   |
| <i>mschap_status</i>   | (Optional) mschap enabled or disabled                    |
| <i>mschapv2_status</i> | (Optional) mschapv2 enabled or disabled                  |
| <i>chap_status</i>     | (Optional) chap enabled or disabled                      |

### Command Mode

- /exec



# show aaa authentication login ascii-authentication

```
show aaa authentication login ascii-authentication [ __readonly__ { <ascii_authen_status> } ]
```

## Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information                 |
| aaa                        | Show aaa information                            |
| authentication             | Show authentication configuration               |
| login                      | Show authentication login message configuration |
| ascii-authentication       | Show ascii-authentication configuration         |
| <i>__readonly__</i>        | (Optional)                                      |
| <i>ascii_authen_status</i> | (Optional) ascii authentication status          |

## Command Mode

- /exec

## show aaa authentication login error-enable

show aaa authentication login error-enable [ \_\_readonly\_\_ [ <status> ] ]

### Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                              |
| aaa            | Show aaa information   |
| authentication | Show authentication configuration                            |
| login          | Show authentication login error message configuration        |
| error-enable   | Show authentication login error message enable configuration |
| __readonly__   | (Optional)   |
| <i>status</i>  | (Optional) login error-enable enabled or disabled            |

### Command Mode

- /exec

# show aaa authentication login invalid-username-log

```
show aaa authentication login invalid-username-log [ __readonly__ [ <status> ] ]
```

## Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information                           |
| aaa                  | Show aaa information                                      |
| authentication       | Show authentication configuration                         |
| login                | Show authentication login message configuration           |
| invalid-username-log | Show invalid username log configuration                   |
| <i>__readonly__</i>  | (Optional)  |
| <i>status</i>        | (Optional) login invalid-username-log enabled or disabled |

## Command Mode

- /exec

## show aaa authorization

```
show aaa authorization [ all ] [ __readonly__ [ <pki_ssh_cert_author> <pki_ssh_pubkey_author> ] [
TABLE_cmd_methods <appl_subtype> <cmd_type> <methods> ] [ TABLE_app_methods <appl> <methods>
] ]
```

### Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information   |
| aaa                          | Show aaa information  |
| authorization                | Show authorization configuration  |
| all                          | (Optional) Show all(include defaults configurations) authorization info |
| __readonly__                 | (Optional)  |
| <i>pki_ssh_cert_author</i>   | (Optional)  |
| <i>pki_ssh_pubkey_author</i> | (Optional)  |
| TABLE_cmd_methods            | (Optional) table containing command authorization methods               |
| <i>appl_subtype</i>          | (Optional)  |
| <i>cmd_type</i>              | (Optional)  |
| <i>methods</i>               | (Optional)  |
| TABLE_app_methods            | (Optional) table containing application authorization methods           |
| <i>appl</i>                  | (Optional)  |
| <i>methods</i>               | (Optional)  |

### Command Mode

- /exec

## show aaa bypass-user

```
show aaa bypass-user [ <s0> ] [ __readonly__ [ <num_bypass_users> ] [ TABLE_bypassUsers <username>
<account> <author> ] ]
```

### Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information              |
| aaa                     | Show aaa information                         |
| bypass-user             | Show bypass user information                 |
| <i>s0</i>               | (Optional) Enter the username                |
| <i>__readonly__</i>     | (Optional)                                   |
| <i>num_bypass_users</i> | (Optional) Number of bypass users configured |
| TABLE_bypassUsers       | (Optional)                                   |
| <i>username</i>         | (Optional) Username                          |
| <i>account</i>          | (Optional) Accounting Bypass                 |
| <i>author</i>           | (Optional) Authorization bypass              |

### Command Mode

- /exec

## show aaa client radius statistics

```
show aaa client radius statistics <host0> [ __readonly__ TABLE_allstat [ <auth_client> ] TABLE_allcoastat
[ <requests> ] [ <transactions> ] [ <retransmissions> ] [ <active_trans> ] [ <ack_responses> ] [ <nak_responses>
] [ <invalid_req> ] [ <errors> ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                     |
| aaa                     | Show aaa information                                |
| client                  | Show AAA client info                                |
| radius                  | show radius dynamic authorization client info       |
| statistics              | show radius dynamic authorization client statistics |
| <i>host0</i>            | IPv4/IPv6 address or DNS name of RADIUS client      |
| <i>__readonly__</i>     | (Optional)  |
| <i>TABLE_allstat</i>    | (Optional)  |
| <i>TABLE_allcoastat</i> | (Optional)  |
| <i>auth_client</i>      | (Optional) Authentication Client Port details       |
| <i>requests</i>         | (Optional) COA Request Sent count                   |
| <i>transactions</i>     | (Optional) COA transactions count                   |
| <i>retransmissions</i>  | (Optional) COA retransmission count                 |
| <i>active_trans</i>     | (Optional) COA active transactions count            |
| <i>ack_responses</i>    | (Optional) COA acknowledgement responses count      |
| <i>nak_responses</i>    | (Optional) COA nak responses count                  |
| <i>invalid_req</i>      | (Optional) Invalid requests count                   |
| <i>errors</i>           | (Optional) COA Error count                          |

### Command Mode

- /exec

## show aaa groups

```
show aaa groups [ __readonly__ { TABLE_groups <group> } ]
```

### Syntax Description

|              |                                     |
|--------------|-------------------------------------|
| show         | Show running system information     |
| aaa          | Show aaa information                |
| groups       | Show configured groups              |
| __readonly__ | (Optional)                          |
| TABLE_groups | (Optional) Table showing aaa groups |
| <i>group</i> | (Optional) Name of the group        |

### Command Mode

- /exec

# show aaa local user blocked

show aaa local user blocked [ \_\_readonly\_\_ { TABLE\_sessions <u\_name> <u\_state> } ]

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information          |
| aaa                 | Configure aaa functions                  |
| local               | Local username                           |
| user                | Local system user                        |
| blocked             | Display Blocked users                    |
| <i>__readonly__</i> | (Optional)                               |
| TABLE_sessions      | (Optional) aaa local users blocked table |
| <i>u_name</i>       | (Optional) Name of the user              |
| <i>u_state</i>      | (Optional) State of the user             |

## Command Mode

- /exec



## show aaa server radius statistics

```
show aaa server radius statistics [ __readonly__ TABLE_allstat [ <auth_ser> ] [ <coa_sessions> ]
TABLE_alldot1xstat [ <request_sent> ] [ <resp_received> ] [ <resp_timeout> ] [ <errors> ] ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information               |
| aaa                       | Show aaa information                          |
| server                    | show Local AAA server info                    |
| radius                    | show local radius server info                 |
| statistics                | show local radius server statistics           |
| <i>__readonly__</i>       | (Optional)                                    |
| <i>TABLE_allstat</i>      | (Optional)                                    |
| <i>TABLE_alldot1xstat</i> | (Optional)                                    |
| <i>auth_ser</i>           | (Optional) Authentication Server Port details |
| <i>coa_sessions</i>       | (Optional) Active COA session numbers         |
| <i>request_sent</i>       | (Optional) DOT1X Request Sent Count           |
| <i>resp_received</i>      | (Optional) DOT1X Response received Count      |
| <i>resp_timeout</i>       | (Optional) DOT1X Response Timeout Value       |
| <i>errors</i>             | (Optional) DOT1X Error count                  |

### Command Mode

- /exec

## show aaa user default-role

show aaa user default-role [ \_\_readonly\_\_ { default\_role\_status <udr\_status> } ]

### Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                              |
| aaa                 | Show aaa information   |
| user                | Remotely authenticated user                                  |
| default-role        | Default role assigned by aaa-admin for remote authentication |
| __readonly__        | (Optional)   |
| default_role_status | (Optional) user default role status                          |
| <i>udr_status</i>   | (Optional) Status of user default role                       |

### Command Mode

- /exec

## show access-list

```
show { system internal | hardware } access-list { summary | [ vdc <vdc_id> ] { [ interface <if_name> | vlan
<vlan_id> | inband table <table> ] [ { input | output } { config | { { entries | merge } [ detail ] } | statistics |
l4ops | redirect | sampler } ] } } [ module <module> ] [ __readonly__ <type> <feature> <ply_id> <src_ip>
<src_mask> <dst_ip> <dst_mask> <proto> <l4ops> <action> <mac> <cos> <vlan> <l2_proto> <ethertype>
[ TABLE_vdc <vdc-no> <vdc-type> <dir> <policy-type> <policy-id> <policy-name> ] [ TABLE_instance
<inst> [ TABLE_tcam_resource_usage <tcam-no> <lbl> <hw-lbl-id> [ <bank> ] [ TABLE_bank <bank-no>
[ TABLE_class <class-type> [ TABLE_policies <policy> ] <netflow-profile> <netflow-deny-profile> [
<tcam-entries> ] [ TABLE_tcam_entry <tcam-index> <tcam-rule> <tcam-stats> ] ] ] ] <l4-protocol-cam-entries>
<mac-etype-proto-cam-entries> <lous> <tcp-flags-table-entries> <adjacency-entries> ] ]
```

### Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                  |
| system         | System-related show commands                     |
| internal       | Commands for internal use                        |
| hardware       | Show hardware information                        |
| access-list    | Access Control List                              |
| summary        | summary  |
| vdc            | (Optional) vdc id                                |
| <i>vdc_id</i>  | (Optional) vdc_id                                |
| interface      | (Optional) interface name                        |
| <i>if_name</i> | (Optional) display access list for the interface |
| vlan           | (Optional) vlan_id                               |
| <i>vlan_id</i> | (Optional) vlan_id                               |
| inband         | (Optional) inband interface                      |
| table          | (Optional) vrf table number                      |
| <i>table</i>   | (Optional) vrf table number                      |
| input          | (Optional) input/ingress policies                |
| output         | (Optional) output/egress policies                |
| config         | (Optional) parsed policy software database       |
| entries        | (Optional) tcam entries                          |
| statistics     | (Optional) aggregate statistics                  |

|                     |   |
|---------------------|---|
| <i>l4ops</i>        | (Optional) l4 operations information      |
| <i>redirect</i>     | (Optional) redirect resource information  |
| <i>sampler</i>      | (Optional) with sampler details           |
| <i>merge</i>        | (Optional) tcam entries merge information |
| <i>detail</i>       | (Optional) detailed information           |
| <i>module</i>       | (Optional) Slot/module                    |
| <i>module</i>       | (Optional) Slot/module number             |
| <i>__readonly__</i> | (Optional)                                |
| <i>type</i>         | (Optional) policy type eg: ACL, QOS       |
| <i>feature</i>      | (Optional) feature type eg: RACL, VACL    |
| <i>plcy_id</i>      | (Optional) policy id                      |
| <i>src_ip</i>       | (Optional) src ipv4 address               |
| <i>src_mask</i>     | (Optional) src mask                       |
| <i>dst_ip</i>       | (Optional) dst ipv4 address               |
| <i>dst_mask</i>     | (Optional) dst mask                       |
| <i>proto</i>        | (Optional) protocol eg: TCP, UDP ...      |
| <i>l4ops</i>        | (Optional) layer 4 operations             |
| <i>action</i>       | (Optional) action                         |
| <i>mac</i>          | (Optional) mac address                    |
| <i>cos</i>          | (Optional) acos value                     |
| <i>vlan</i>         | (Optional) vlan id                        |
| <i>l2_proto</i>     | (Optional) L2 protocol                    |
| <i>ethertype</i>    | (Optional) ethertype                      |
| <i>TABLE_vdc</i>    | (Optional) show for vdc                   |
| <i>vdc-no</i>       | (Optional) vdc number                     |
| <i>vdc-type</i>     | (Optional) VDC type-COPP etc              |
| <i>dir</i>          | (Optional) Policy Direction               |
| <i>policy-type</i>  | (Optional) Policy type                    |
| <i>policy-id</i>    | (Optional) Policy id                      |

|                                    |   |
|------------------------------------|---|
| <i>policy-name</i>                 | (Optional) Policy name                        |
| TABLE_instance                     | (Optional) show for an instance               |
| <i>inst</i>                        | (Optional) instance number                    |
| TABLE_tcam_resource_usage          | (Optional) TCAM resource usage                |
| <i>tcam-no</i>                     | (Optional) tcam number                        |
| TABLE_bank                         | (Optional) table bank                         |
| <i>bank-no</i>                     | (Optional) bank number                        |
| <i>lbl</i>                         | (Optional) lbl name                           |
| <i>hw-lbl-id</i>                   | (Optional) hw lbl id                          |
| <i>bank</i>                        | (Optional) bank number                        |
| TABLE_class                        | (Optional) table class                        |
| <i>class-type</i>                  | (Optional) Class type                         |
| TABLE_policies                     | (Optional) policy table                       |
| <i>policy</i>                      | (Optional) Policy name                        |
| <i>netflow-profile</i>             | (Optional) Netflow Profile                    |
| <i>netflow-deny-profile</i>        | (Optional) Netflow Deny Profile               |
| TABLE_tcam_entry                   | (Optional) table tcam entries                 |
| <i>tcam-index</i>                  | (Optional) Index of tcam entry                |
| <i>tcam-rule</i>                   | (Optional) tcam rule                          |
| <i>tcam-stats</i>                  | (Optional) stats of tcam rule                 |
| <i>tcam-entries</i>                | (Optional) No. of TCAM entries                |
| <i>l4-protocol-cam-entries</i>     | (Optional) L4 protocol cam entries            |
| <i>mac-etype-proto-cam-entries</i> | (Optional) No. of mac etype/proto cam entries |
| <i>lous</i>                        | (Optional) No. of LOU's                       |
| <i>tcp-flags-table-entries</i>     | (Optional) No. of CP flags table entries      |
| <i>adjacency-entries</i>           | (Optional) No. of adjacency entries           |

**Command Mode**

- /exec

## show access-list database

```
show { system internal | hardware } access-list [ vdc <vdc_id> ] database { interface | vlan | policy | process } [ module <module> ] [ __readonly__ <if_idx> <vlan> <plcy_id> <process_info> ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                 |
| system              | System-related show commands                    |
| internal            | Commands for internal use                       |
| hardware            | Show hardware information                       |
| access-list         | Access Control List                             |
| vdc                 | (Optional) vdc id                               |
| <i>vdc_id</i>       | (Optional) vdc_id                               |
| database            | Show memory database                            |
| interface           | display interfaces/vlans in a vdc with policies |
| policy              | display policies in a vdc                       |
| vlan                | display vlans in a vdc                          |
| process             | display process database in a vdc               |
| module              | (Optional) Slot/module                          |
| <i>module</i>       | (Optional) Slot/module number                   |
| <i>__readonly__</i> | (Optional)                                      |
| <i>if_idx</i>       | (Optional) interface                            |
| <i>vlan</i>         | (Optional) vlan                                 |
| <i>plcy_id</i>      | (Optional) policy id                            |
| <i>process_info</i> | (Optional) process information                  |

### Command Mode

- /exec

## show access-lists

```
show <mpls_acl> access-lists [ <mpls_name> ] [ __readonly__ TABLE_mpls <mpls_name> [ <statistics> ]
[ TABLE_seqno <seqno> { <permitdeny> <mpls> [ <mpls_option> ] { <label1_any> | { <label1> [ mask
<label1_mask> ] } } [ <label2_any> | { <label2> [ mask <label2_mask> ] } ] [ <label3_any> | { <label3> [
mask <label3_mask> ] } ] [ <label4_any> | { <label4> [ mask <label4_mask> ] } ] <mplsaction> <mplsactionid>
} | <remark> ] ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information   |
| <i>mpls_acl</i>     | mpls acl value  |
| access-lists        | List access lists   |
| <i>mpls_name</i>    | (Optional) List name  |
| __readonly__        | (Optional)  |
| <i>mpls_name</i>    | (Optional) Name of the MPLS ACL   |
| <i>seqno</i>        | (Optional) Sequence number  |
| <i>permitdeny</i>   | (Optional) Permit/deny  |
| <i>mplsaction</i>   | (Optional) mpls ACL Action  |
| <i>mplsactionid</i> | (Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63><br>set-erspan-gre-proto: <1-65535> |
| <i>statistics</i>   | (Optional) STATISTICS   |
| mask                | (Optional) mask   |
| <i>label1</i>       | (Optional) mpls label one   |
| <i>label2</i>       | (Optional) mpls label two   |
| <i>label3</i>       | (Optional) mpls label three   |
| <i>label4</i>       | (Optional) mpls label three   |
| <i>label1_mask</i>  | (Optional) mpls label one mask  |
| <i>label2_mask</i>  | (Optional) mpls label two mask  |
| <i>label3_mask</i>  | (Optional) mpls label three mask  |
| <i>label4_mask</i>  | (Optional) mpls label four mask   |
| <i>label1_any</i>   | (Optional) label one Any  |
| <i>label2_any</i>   | (Optional) label two Any  |

|                    |                            |
|--------------------|----------------------------|
| <i>label3_any</i>  | (Optional) label three Any |
| <i>label4_any</i>  | (Optional) label four Any  |
| <i>mpls</i>        | (Optional) mpls keyword    |
| <i>mpls_option</i> | (Optional) mpls option     |
| TABLE_mpls         | (Optional)                 |
| TABLE_seqno        | (Optional)                 |
| <i>remark</i>      | (Optional) Remark String   |

**Command Mode**

- /exec



## show access-lists

```
show [ <ip_ipv6_mac> ] access-lists [ <name> ] [ capture session <capture_session> ] [ <expanded> |
<summary> | <private> | <brief> | <stats-detail> ] [ __readonly__ TABLE_ip_ipv6_mac <op_ip_ipv6_mac>
<show_summary> <acl_name> [ <statistics> ] [ <frag_opt_permit_deny> ] [ <global_capture_session> ] [
TABLE_seqno <seqno> { <permitdeny> [ <proto_str> | <proto> | <ip> | <ipv6> ] { <src_any> | <src_ip_prefix>
| <src_ip_addr> <src_ip_mask> | <src_ipv6_prefix> | <src_ipv6_addr> <src_ipv6_mask> | <mac_src>
<mac_src_wild> | <src_addrgrp> } [ <src_port_op> [ <src_port1_str> ] { <src_port1_num> } [ <src_port2_str>
| <src_port2_num> ] | <src_portgrp> ] } { <dest_any> | <dest_ip_prefix> | <dest_ip_addr> <dest_ip_mask> |
<dest_ipv6_prefix> | <dest_ipv6_addr> <dest_ipv6_mask> | <mac_dest> <mac_dest_wild> | <dest_addrgrp>
} [ <dest_port_op> [ <dest_port1_str> ] { <dest_port1_num> } [ <dest_port2_str> | <dest_port2_num> ] |
<dest_portgrp> ] ] [ { <icmp_type> [ <icmp_code> ] | <icmp_str> } | { <icmpv6_type> [ <icmpv6_code> ] |
<icmpv6_str> } ] [ <igmp_type> | <igmp_type_str> ] [ [ <precedence> | <precedence_str> ] [ <tos> | <tos_str>
] ] [ <dscp> | <dscp_str> ] [ [ <ttl> ] ] [ <log> ] [ <udfs> ] [ <capture_session> ] [ <fragments> ] [ <plen_op>
<plen1> [ <plen2> ] ] [ <urg> ] [ <ack> ] [ <psb> ] [ <rst> ] [ <syn> ] [ <fin> ] [ <established> ] [
<http-method> | <http_opt_str> ] [ <tcp-option-length> ] [ <tcp-flags-mask> ] [ <flow_label> ] [ <timerange>
] [ <eth_proto> | <eth_proto_str> ] [ <vlan> ] [ <cos> ] [ <match_count> ] [ TABLE_match <module>
<module_match_count> ] [ [ <nve_vni> ] | <remark> [ <action> <actionid> ] ] ] [ ethertype <ethertypeid> |
vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid> ] + [ [ <stats_enabled>
] [ <frag_option> ] [ <ign_rtable> ] { <num_ace> } { <conf_if_header> } [ <conf_if> ] { <active_if_header>
} [ <active_if> ] ] ] ]
```

### Syntax Description

|                             |   |
|-----------------------------|---|
| show                        | Show running system information               |
| <i>name</i>                 | (Optional) List name                          |
| <i>ip_ipv6_mac</i>          | (Optional) IP/IPv6/MAC                        |
| capture                     | (Optional) capture                            |
| session                     | (Optional) session                            |
| <i>capture_session</i>      | (Optional) session id                         |
| <i>op_ip_ipv6_mac</i>       | (Optional) IP/IPv6/MAC                        |
| access-lists                | List access lists                             |
| <i>show_summary</i>         | (Optional)                                    |
| <i>acl_name</i>             | (Optional) List name                          |
| <i>__readonly__</i>         | (Optional)                                    |
| TABLE_ip_ipv6_mac           | (Optional)                                    |
| <i>frag_opt_permit_deny</i> | (Optional) frag_op_type                       |
| ethertype                   | (Optional) Configure match based on ethertype |
| vlan                        | (Optional) Configure match based on vlan      |

|                       |   |
|-----------------------|---|
| <i>ingress_intf</i>   | (Optional) Configure match based on ingress interface |
| <i>vlan_priority</i>  | (Optional) Configure match based on priority          |
| <i>ethertypeid</i>    | (Optional) Configure the ethertype value              |
| <i>vlanid</i>         | (Optional) VLAN number                                |
| <i>intfid</i>         | (Optional) Interface index                            |
| <i>intfname</i>       | (Optional) Interface name                             |
| <i>vlanpriorityid</i> | (Optional) Vlan Priority                              |
| <i>seqno</i>          | (Optional) Sequence number                            |
| <i>permitdeny</i>     | (Optional) Permit/deny                                |
| <i>proto</i>          | (Optional) A protocol number                          |
| TABLE_seqno           | (Optional)  |
| <i>proto_str</i>      | (Optional) Protocol name                              |
| <i>ip</i>             | (Optional) IP   |
| <i>ipv6</i>           | (Optional) IPV6                                       |
| <i>src_any</i>        | (Optional) SRCAny                                     |
| <i>dest_any</i>       | (Optional) DESTAny                                    |
| <i>src_ip_prefix</i>  | (Optional) Source IP prefix                           |
| <i>src_ip_addr</i>    | (Optional) Source IP address                          |
| <i>src_ip_mask</i>    | (Optional) Source IP mask                             |
| <i>mac_src</i>        | (Optional) Source MAC address                         |
| <i>mac_src_wild</i>   | (Optional) Source MAC mask                            |
| <i>dest_ip_prefix</i> | (Optional) Destination IP prefix                      |
| <i>dest_ip_addr</i>   | (Optional) Destination IP address                     |
| <i>dest_ip_mask</i>   | (Optional) Destination IP mask                        |
| <i>mac_dest</i>       | (Optional) Destination MAC address                    |
| <i>mac_dest_wild</i>  | (Optional) Destination MAC mask                       |
| <i>src_port_op</i>    | (Optional) Source Port operator                       |
| <i>dest_port_op</i>   | (Optional) Destination Port operator                  |
| <i>src_port1_str</i>  | (Optional) Source port name                           |

|                               |                                    |
|-------------------------------|------------------------------------|
| <i>src_port1_num</i>          | (Optional) Source port number      |
| <i>src_port2_str</i>          | (Optional) Source port name        |
| <i>src_port2_num</i>          | (Optional) Source port number      |
| <i>dest_port1_str</i>         | (Optional) Destination port name   |
| <i>dest_port1_num</i>         | (Optional) Destination port number |
| <i>dest_port2_str</i>         | (Optional) Destination port name   |
| <i>dest_port2_num</i>         | (Optional) Destination port number |
| <i>icmp_type</i>              | (Optional) ICMP type               |
| <i>icmp_code</i>              | (Optional) ICMP code               |
| <i>icmp_str</i>               | (Optional) ICMP message            |
| <i>icmpv6_type</i>            | (Optional) ICMP type               |
| <i>icmpv6_code</i>            | (Optional) ICMP code               |
| <i>icmpv6_str</i>             | (Optional) ICMP message            |
| <i>igmp_type</i>              | (Optional) IGMP type               |
| <i>igmp_type_str</i>          | (Optional) IGMP type String        |
| <i>precedence</i>             | (Optional) precedence              |
| <i>precedence_str</i>         | (Optional) precedence string       |
| <i>tos</i>                    | (Optional) tos                     |
| <i>tos_str</i>                | (Optional) tos string              |
| <i>dscp</i>                   | (Optional) dscp                    |
| <i>dscp_str</i>               | (Optional) dscp string             |
| <i>udfs</i>                   | (Optional) udfs string             |
| <i>ttl</i>                    | (Optional) ttl                     |
| <i>capture_session</i>        | (Optional) capture session         |
| <i>global_capture_session</i> | (Optional) capture session         |
| <i>log</i>                    | (Optional) Log                     |
| <i>fragments</i>              | (Optional) Fragments               |
| <i>urg</i>                    | (Optional) URG                     |
| <i>ack</i>                    | (Optional) ACK                     |

|                           |  |
|---------------------------|--|
| <i>psh</i>                | (Optional) PSH   |
| <i>rst</i>                | (Optional) RST   |
| <i>syn</i>                | (Optional) SYN   |
| <i>fin</i>                | (Optional) FIN   |
| <i>established</i>        | (Optional) ESTABLISHED                                   |
| <i>http-method</i>        | (Optional) http-method                                   |
| <i>http_opt_str</i>       | (Optional) http_option string                            |
| <i>tcp-option-length</i>  | (Optional) TCP Option size                               |
| <i>tcp-flags-mask</i>     | (Optional) TCP Flags mask                                |
| <i>flow_label</i>         | (Optional) IPv6 flow label                               |
| <i>timerange</i>          | (Optional) Time-range                                    |
| <i>eth_proto</i>          | (Optional) MAC protocol number                           |
| <i>eth_proto_str</i>      | (Optional) MAC protocol name                             |
| <i>vlan</i>               | (Optional) VLAN number                                   |
| <i>cos</i>                | (Optional) CoS value                                     |
| <i>match_count</i>        | (Optional) Number of packets matching the ACL            |
| TABLE_match               | (Optional)   |
| <i>module</i>             | (Optional) Module name                                   |
| <i>module_match_count</i> | (Optional) Number of packets matching the ACL per module |
| <i>nve_vni</i>            | (Optional) nve vni                                       |
| <i>remark</i>             | (Optional) Remark String                                 |
| <i>statistics</i>         | (Optional) STATISTICS                                    |
| <i>src_addrgrp</i>        | (Optional) Source address group                          |
| <i>dest_addrgrp</i>       | (Optional) Destination address group                     |
| <i>src_portgrp</i>        | (Optional) Source port group                             |
| <i>dest_portgrp</i>       | (Optional) Destination port group                        |
| <i>plen_op</i>            | (Optional) Source Port operator                          |
| <i>plen1</i>              | (Optional) Packet length minimum                         |
| <i>plen2</i>              | (Optional) packet length maximum                         |

|                         |   |
|-------------------------|---|
| <i>action</i>           | (Optional) Action   |
| <i>actionid</i>         | (Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63><br>set-erspan-gre-proto: <1-65535> |
| <i>stats_enabled</i>    | (Optional)  |
| <i>frag_option</i>      | (Optional)  |
| <i>ign_rtable</i>       | (Optional)  |
| <i>num_ace</i>          | (Optional) Total number of ACEs   |
| <i>conf_if_header</i>   | (Optional)  |
| <i>conf_if</i>          | (Optional) Configured Interfaces  |
| <i>active_if_header</i> | (Optional)  |
| <i>active_if</i>        | (Optional) Active interfaces  |
| <i>expanded</i>         | (Optional) EXPANDED   |
| <i>summary</i>          | (Optional) SUMMARY  |
| <i>private</i>          | (Optional) PRIVATE  |
| <i>brief</i>            | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| <i>stats-detail</i>     | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |

**Command Mode**

- /exec

## show accounting log

```
show accounting log [ { <i0> | start-time <SYYYY> <SMonth> <SDate> <STime> [ end-time <EYYYY>
<EMonth> <EDate> <ETime> ] } ] [ __readonly__ [ TABLE_acctlog_time <accountlog_starttime> ] ]
```

### Syntax Description

|                             |  |
|-----------------------------|--|
| show                        | Show running system information                                |
| accounting                  | Show Accounting Information                                    |
| log                         | Show Accounting Log  |
| <i>i0</i>                   | (Optional) Log Size(in bytes)                                  |
| start-time                  | (Optional) Show messages from a given start-time               |
| <i>SYYYY</i>                | (Optional) Enter year in YYYY format                           |
| <i>SMonth</i>               | (Optional) Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec |
| <i>SDate</i>                | (Optional) Enter day of month in dd format                     |
| <i>STime</i>                | (Optional) Enter hour, minutes, seconds as HH:MM:SS            |
| end-time                    | (Optional) Show messages from a given end-time                 |
| <i>EYYYY</i>                | (Optional) Enter year in YYYY format                           |
| <i>EMonth</i>               | (Optional) Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec |
| <i>EDate</i>                | (Optional) Enter day of month in dd format                     |
| <i>ETime</i>                | (Optional) Enter hour, minutes, seconds as HH:MM:SS            |
| __readonly__                | (Optional)   |
| TABLE_acctlog_time          | (Optional)   |
| <i>accountlog_starttime</i> | (Optional) accounting log starttime                            |

### Command Mode

- /exec

# show accounting log all

show accounting log all [ \_\_readonly\_\_ [ TABLE\_acctlog <accountlog\_all> ] ]

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information   |
| accounting            | Show accounting configuration   |
| log                   | Show Accounting Log   |
| all                   | Display accounting log including show commands (Use <terminal log-all> to enable show command accounting) |
| __readonly__          | (Optional)  |
| TABLE_acctlog         | (Optional)  |
| <i>accountlog_all</i> | (Optional) accounting log all   |

## Command Mode

- /exec

# show accounting log last-index

show accounting log last-index [ \_\_readonly\_\_ { <last\_index> } ]

## Syntax Description

|                   |  |
|-------------------|--|
| show              | Show running system information            |
| accounting        | Show accounting configuration              |
| log               | Show Accounting Log                        |
| last-index        | Show accounting log last index information |
| __readonly__      | (Optional)                                 |
| <i>last_index</i> | (Optional) accounting log last index       |

## Command Mode

- /exec



## show accounting log nvram

```
show accounting log nvram [ { <i0> | start-time <SYYYY> <SMonth> <SDate> <STime> [ end-time
<EYYYY> <EMonth> <EDate> <ETime> ] } ] [ __readonly__ [ TABLE_acctnvramlog_time
<accountnvramlog_starttime> ] ]
```

### Syntax Description

|                                  |  |
|----------------------------------|--|
| show                             | Show running system information                                |
| accounting                       | Show Accounting Information                                    |
| log                              | Show Accounting Log  |
| nvram                            | present in nvram   |
| <i>i0</i>                        | (Optional) Log Size(in bytes)                                  |
| start-time                       | (Optional) Show messages from a given start-time               |
| <i>SYYYY</i>                     | (Optional) Enter year in YYYY format                           |
| <i>SMonth</i>                    | (Optional) Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec |
| <i>SDate</i>                     | (Optional) Enter day of month in dd format                     |
| <i>STime</i>                     | (Optional) Enter hour, minutes, seconds as HH:MM:SS            |
| end-time                         | (Optional) Show messages from a given end-time                 |
| <i>EYYYY</i>                     | (Optional) Enter year in YYYY format                           |
| <i>EMonth</i>                    | (Optional) Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec |
| <i>EDate</i>                     | (Optional) Enter day of month in dd format                     |
| <i>ETime</i>                     | (Optional) Enter hour, minutes, seconds as HH:MM:SS            |
| __readonly__                     | (Optional)   |
| TABLE_acctnvramlog_time          | (Optional)   |
| <i>accountnvramlog_starttime</i> | (Optional) accounting log nvram starttime                      |

### Command Mode

- /exec

# show accounting log nvram last-index

```
show accounting log nvram last-index [ __readonly__ { <last_index> } ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information            |
| accounting          | Show accounting configuration              |
| log                 | Show Accounting Log                        |
| nvram               | present in nvram                           |
| last-index          | Show accounting log last index information |
| <i>__readonly__</i> | (Optional)                                 |
| <i>last_index</i>   | (Optional) accounting log last index       |

## Command Mode

- /exec

## show accounting log nvram start-seqnum

```
show accounting log nvram start-seqnum <SSEQNUM> [ end-seqnum <ESEQNUM> ] [ __readonly__ [
TABLE_acctnvramlog_seq <accountnvramlog_seq> ] ]
```

### Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information                              |
| accounting                    | Show Accounting Information                                  |
| log                           | Show Accounting Log  |
| nvram                         | present in nvram   |
| start-seqnum                  | Show messages starting from a given sequence number          |
| end-seqnum                    | (Optional) Show messages ending with a given sequence number |
| <i>SSEQNUM</i>                | Enter Starting Sequence Number                               |
| <i>ESEQNUM</i>                | (Optional) Enter Starting Sequence Number                    |
| <i>__readonly__</i>           | (Optional)   |
| <i>TABLE_acctnvramlog_seq</i> | (Optional)   |
| <i>accountnvramlog_seq</i>    | (Optional) accounting log nvram seqnum                       |

### Command Mode

- /exec

## show accounting log start-seqnum

```
show accounting log start-seqnum <SSEQNUM> [ end-seqnum <ESEQNUM> ] [ __readonly__ [
TABLE_acctlog_seq <accountlog_seq> ] ]
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information                              |
| accounting               | Show Accounting Information                                  |
| log                      | Show Accounting Log  |
| start-seqnum             | Show messages starting from a given sequence number          |
| end-seqnum               | (Optional) Show messages ending with a given sequence number |
| <i>SSEQNUM</i>           | Enter Starting Sequence Number                               |
| <i>ESEQNUM</i>           | (Optional) Enter Starting Sequence Number                    |
| <i>__readonly__</i>      | (Optional)   |
| <i>TABLE_acctlog_seq</i> | (Optional)   |
| <i>accountlog_seq</i>    | (Optional) accounting log seqnum                             |

### Command Mode

- /exec

## show acl status

```
show acl status [ __readonly__ [ <current_operation> [ <current_operation_stage> ] [ <current_operation_cli>
] <last_operation> [ <last_operation_status> ] [ <last_operation_cli> ] [ <current_acl> ] [ <current_ace> ] ]
]
```

### Syntax Description

|                                |  |
|--------------------------------|--|
| show                           | Show running system information        |
| acl                            | Show information about acl             |
| status                         | Shows the status of last acl operation |
| <i>__readonly__</i>            | (Optional)                             |
| <i>current_operation</i>       | (Optional) Current operation           |
| <i>current_operation_stage</i> | (Optional) Current operation stage     |
| <i>current_operation_cli</i>   | (Optional) Current operation CLI       |
| <i>last_operation</i>          | (Optional) Last operation              |
| <i>last_operation_status</i>   | (Optional) Last operation status       |
| <i>last_operation_cli</i>      | (Optional) Last operation CLI          |
| <i>current_acl</i>             | (Optional) Access-list being modified  |
| <i>current_ace</i>             | (Optional) ACE rule being modified     |

### Command Mode

- /exec

## show amt process

```
show amt process [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf <vrf> <pid> <uuid>
<q> <re4> <ge4> <re6> <ge6> <pi4> <ar4> <ag4> <ra4> <ga4> <dra4> <pi6> <ar6> <ag6> <ra6> <ga6>
<dra6> <qqic4> <tc4> <tl4> <rc4> <rl4> <jp4> <qqic6> <tc6> <tl6> <rc6> <rl6> <jp6> <grm4> <gjp4>
<gslp4> <gsl4> <grm6> <gjp6> <gslp6> <gsl6> ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information        |
| amt                   | AMT show commands                      |
| vrf                   | (Optional) Display information for VRF |
| <i>vrf-name</i>       | (Optional) VRF name                    |
| <i>vrf-known-name</i> | (Optional) Known VRF name              |
| process               | Display AMT process information        |
| <i>__readonly__</i>   | (Optional)                             |
| TABLE_vrf             | (Optional)                             |
| <i>vrf</i>            | (Optional)                             |
| <i>pid</i>            | (Optional)                             |
| <i>uuid</i>           | (Optional)                             |
| <i>q</i>              | (Optional)                             |
| <i>re4</i>            | (Optional)                             |
| <i>ge4</i>            | (Optional)                             |
| <i>re6</i>            | (Optional)                             |
| <i>ge6</i>            | (Optional)                             |
| <i>pi4</i>            | (Optional)                             |
| <i>ar4</i>            | (Optional)                             |
| <i>ag4</i>            | (Optional)                             |
| <i>ra4</i>            | (Optional)                             |
| <i>ga4</i>            | (Optional)                             |
| <i>dra4</i>           | (Optional)                             |
| <i>pi6</i>            | (Optional)                             |

|              |            |
|--------------|------------|
| <i>qqic4</i> | (Optional) |
| <i>tc4</i>   | (Optional) |
| <i>tl4</i>   | (Optional) |
| <i>rc4</i>   | (Optional) |
| <i>rl4</i>   | (Optional) |
| <i>jp4</i>   | (Optional) |
| <i>qqic6</i> | (Optional) |
| <i>tc6</i>   | (Optional) |
| <i>tl6</i>   | (Optional) |
| <i>rc6</i>   | (Optional) |
| <i>rl6</i>   | (Optional) |
| <i>jp6</i>   | (Optional) |
| <i>grm4</i>  | (Optional) |
| <i>gjp4</i>  | (Optional) |
| <i>gslp4</i> | (Optional) |
| <i>gsl4</i>  | (Optional) |
| <i>grm6</i>  | (Optional) |
| <i>gjp6</i>  | (Optional) |
| <i>gslp6</i> | (Optional) |
| <i>gsl6</i>  | (Optional) |

**Command Mode**

- /exec

# show amt vrf all

show amt vrf all [ \_\_readonly\_\_ TABLE\_vrf <vrf> <cid> <ip\_tid> <ipv6\_tid> ]

## Syntax Description

|                 |                                       |
|-----------------|---------------------------------------|
| show            | Show running system information       |
| amt             | AMT show commands                     |
| vrf             | Display all VRFs AMT is configured in |
| all             | Display all VRFs AMT is configured in |
| __readonly__    | (Optional)                            |
| TABLE_vrf       | (Optional)                            |
| <i>vrf</i>      | (Optional)                            |
| <i>cid</i>      | (Optional)                            |
| <i>ip_tid</i>   | (Optional)                            |
| <i>ipv6_tid</i> | (Optional)                            |

## Command Mode

- /exec



## show archive log config

```
show archive log config { all | [ user <username> ] [ first-index <first_index> [ last-index <last_index> ] ] }
[ __readonly__ [ TABLE_archivelog_time [ <archivelog_firstindex> ] ] ]
```

### Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information                             |
| archive                      | Show archive configuration                                  |
| log                          | Show Archive Log  |
| config                       | Show Config Logger information                              |
| all                          | List all the records in the config log                      |
| user                         | (Optional) List records for specific user in the config log |
| <i>username</i>              | (Optional) Username   |
| first-index                  | (Optional) The first record number to display               |
| last-index                   | (Optional) The last record number to display                |
| <i>first_index</i>           | (Optional) config log first index                           |
| <i>last_index</i>            | (Optional) config log last index                            |
| __readonly__                 | (Optional)  |
| TABLE_archivelog_time        | (Optional)  |
| <i>archivelog_firstindex</i> | (Optional) archive log startindex                           |

### Command Mode

- /exec

## show arp access-lists

```
show arp access-lists [ <name> ] [ __readonly__ TABLE_arp <arp_name> [ TABLE_seqno <seqno> {
<permitdeny> <reqresp> ip { { <sender_ip_any> | { { <sender_host> <sender_ip> | { <sender_net_ip>
<sender_ip_mask> } } } } [ { <target_ip_any> | { { <target_host> <target_ip> | { <target_net_ip>
<target_ip_mask> } } } } ] } mac { { <sender_mac_any> | { { <sender_mac_host> <sender_mac> | {
<sender_net_mac> <sender_mac_mask> } } } } [ { <target_mac_any> | { { <target_mac_host> <target_mac>
| { <target_net_mac> <target_mac_mask> } } } } ] [ <arp_log> ] } | <remark> ] ] [ capture session
<session-id> ]
```

### Syntax Description

|                       |                                 |
|-----------------------|---------------------------------|
| show                  | Show running system information |
| arp                   | ARP access-lists                |
| access-lists          | List access lists               |
| <i>name</i>           | (Optional) List name            |
| <i>__readonly__</i>   | (Optional)                      |
| <i>arp_name</i>       | (Optional) Name of the ARP ACL  |
| <i>seqno</i>          | (Optional) Sequence number      |
| <i>permitdeny</i>     | (Optional) Permit/deny          |
| ip                    | (Optional) Any IP protocol      |
| TABLE_arp             | (Optional)                      |
| TABLE_seqno           | (Optional)                      |
| <i>reqresp</i>        | (Optional) ARP_Request          |
| <i>sender_ip_any</i>  | (Optional) Any                  |
| <i>sender_host</i>    | (Optional) Host                 |
| <i>sender_ip</i>      | (Optional) IP address <a.b.c.d> |
| <i>sender_net_ip</i>  | (Optional) IP address <a.b.c.d> |
| <i>sender_ip_mask</i> | (Optional) IP mask <a.b.c.d>    |
| <i>target_ip_any</i>  | (Optional) Any                  |
| <i>target_host</i>    | (Optional) Host                 |
| <i>target_ip</i>      | (Optional) IP address <a.b.c.d> |
| <i>target_net_ip</i>  | (Optional) IP address <a.b.c.d> |
| <i>target_ip_mask</i> | (Optional) IP mask <a.b.c.d>    |

|                        |   |
|------------------------|---|
| <i>mac</i>             | (Optional) MAC configuration commands                       |
| <i>sender_mac_any</i>  | (Optional) Any  |
| <i>sender_mac_host</i> | (Optional) Host   |
| <i>sender_mac</i>      | (Optional) MAC address EEEE.EEEE.EEEE                       |
| <i>sender_net_mac</i>  | (Optional) MAC address EEEE.EEEE.EEEE                       |
| <i>sender_mac_mask</i> | (Optional) MAC mask EEEE.EEEE.EEEE                          |
| <i>target_mac_any</i>  | (Optional) Any  |
| <i>target_mac_host</i> | (Optional) Host   |
| <i>target_mac</i>      | (Optional) MAC address EEEE.EEEE.EEEE                       |
| <i>target_net_mac</i>  | (Optional) MAC address EEEE.EEEE.EEEE                       |
| <i>target_mac_mask</i> | (Optional) MAC mask EEEE.EEEE.EEEE                          |
| <i>remark</i>          | (Optional) Remark String                                    |
| <i>arp_log</i>         | (Optional) Log  |
| <i>capture</i>         | (Optional) Enable packet capture on this filter for session |
| <i>session</i>         | (Optional) Session ID <1-48> for this session               |
| <i>session-id</i>      | (Optional) Session ID <1-48> for this session               |

**Command Mode**

- /exec

show arp access-lists



## B Show Commands

---

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# show background

```
show background [ __readonly__ [ { TABLE_jobs <pid> <user_name> <terminal> <start> <time> <script>
<args> } ] ]
```

## Syntax Description

|                           |   |
|---------------------------|---|
| <code>show</code>         | Show running system information   |
| <code>background</code>   | show background processes (started with 'source background <file>' command) |
| <code>__readonly__</code> | (Optional)  |
| <code>TABLE_jobs</code>   | (Optional) All background jobs  |
| <code>pid</code>          | (Optional) Process ID of the job  |
| <code>user_name</code>    | (Optional) User name of the process   |
| <code>terminal</code>     | (Optional) Terminal where job is running                                    |
| <code>start</code>        | (Optional) Start time of job  |
| <code>time</code>         | (Optional) Time   |
| <code>script</code>       | (Optional) Script name  |
| <code>args</code>         | (Optional) Arguments passed to script                                       |

## Command Mode

- /exec

## show banner exec

```
show banner exec [ __readonly__ { banner_msg <b_msg> } ]
```

### Syntax Description

|              |                                  |
|--------------|----------------------------------|
| show         | Show running system information  |
| banner       | Show current banner message      |
| exec         | Show current exec banner message |
| __readonly__ | (Optional)                       |
| banner_msg   | (Optional) The banner message    |
| <i>b_msg</i> | (Optional) The banner message    |

### Command Mode

- /exec



# show banner motd

```
show banner motd [ __readonly__ { banner_msg <b_msg> } ]
```

## Syntax Description

|              |                                  |
|--------------|----------------------------------|
| show         | Show running system information  |
| banner       | Show current banner message      |
| motd         | Show current motd banner message |
| __readonly__ | (Optional)                       |
| banner_msg   | (Optional) The banner message    |
| <i>b_msg</i> | (Optional) The banner message    |

## Command Mode

- /exec

# show bash-shell

```
show bash-shell [ __readonly__ { operation_status <o_status> } ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information             |
| bash-shell              | Show bash shell status                      |
| <i>__readonly__</i>     | (Optional)                                  |
| <i>operation_status</i> | (Optional) Bash shell status                |
| <i>o_status</i>         | (Optional) operational status of bash shell |

## Command Mode

- /exec

# show bfd clients

```
show bfd clients [ __readonly__ <header> [ { TABLE_bfdClients <client_name> <num_sess> } ] ]
```

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| bfd                 | BFD commands                    |
| clients             | bfd client list                 |
| <i>__readonly__</i> | (Optional)                      |
| <i>header</i>       | (Optional) print header         |
| TABLE_bfdClients    | (Optional) BFD Client table     |
| <i>client_name</i>  | (Optional) client name          |
| <i>num_sess</i>     | (Optional) Number of sessions   |

## Command Mode

- /exec

## show bfd neighbors

```
show bfd { [ vrf { <vrf-name> | <vrf-known-name> | all } ] } { [ <ip_type> ] } neighbors { [ multihop ] | [
module <module> ] | [ interface <intf_id> ] | [ application <bfd_cli_client_names> ] | [ { src-ip <src_ip> |
src-ipv6 <src_ipv6> } ] | [ { dest-ip <dest_ip> | dest-ipv6 <dest_ipv6> } ] | [ vrf { <vrf-name> |
<vrf-known-name> | all } ] } + [ details ] [ __readonly__ TABLE_bfdNeighbor <local_disc> [ <header> ] [
<sess_type> ] [ <vrf_name> ] [ <src_ip_addr> ] [ <src_ipv6_addr> ] [ <dest_ip_addr> ] [ <dest_ipv6_addr>
] [ <remote_disc> ] [ <local_state> ] [ <remote_state> ] [ <holddown> ] [ <cur_detect_mult> ] [ <intf> ] [
<echo> ] [ <echo_tx> ] [ <local_diag> ] [ <demand> ] [ <poll> ] [ <min_tx> ] [ <min_rx> ] [ <local_multi>
] [ <detect_timer> ] [ <tx_interval> ] [ <rx_count> ] [ <rx_avg> ] [ <rx_min> ] [ <rx_max> ] [ <last_rx> ] [
<tx_count> ] [ <tx_avg> ] [ <tx_min> ] [ <tx_max> ] [ <last_tx> ] [ <app> ] [ <up_time> ] [ <up_count> ] [
<down_count> ] [ <version> ] [ <diag> ] [ <state_bit> ] [ <demand_bit> ] [ <poll_bit> ] [ <final_bit> ] [
<multiplier> ] [ <length> ] [ <my_disc> ] [ <your_disc> ] [ <min_tx_interval> ] [ <req_min_rx> ] [
<min_echo_interval> ] [ <out_str> ] [ <host_lc> ] [ <down_reason> ] [ <no_host_reason> ] [ <parent> ] [
<per_link_str> ] [ <auth> ] [ <auth_bit> ] [ <print_details> ] ]
```

### Syntax Description

|                             |  |
|-----------------------------|--|
| show                        | Show running system information                                    |
| bfd                         | BFD commands   |
| <i>ip_type</i>              | (Optional) ipv4 or ipv6  |
| neighbors                   | neighbors  |
| multihop                    | (Optional) Display Multihop sessions only                          |
| module                      | (Optional) module  |
| <i>module</i>               | (Optional) module number   |
| interface                   | (Optional) interface   |
| <i>intf_id</i>              | (Optional) show bfd sessions based on interface id                 |
| application                 | (Optional) application   |
| <i>bfd_cli_client_names</i> | (Optional) __nil__ Clients need to register with bfd for this list |
| src-ip                      | (Optional) Source ip   |
| src-ipv6                    | (Optional) Source ip   |
| <i>src_ip</i>               | (Optional) Source ip value   |
| dest-ip                     | (Optional) Destination ip  |
| dest-ipv6                   | (Optional) Destination ip  |
| <i>dest_ip</i>              | (Optional) Destination ip value                                    |
| vrf                         | (Optional) Display per-VRF information                             |

|                        |   |
|------------------------|---|
| <i>vrf-name</i>        | (Optional) VRF name                         |
| <i>vrf-known-name</i>  | (Optional) Known VRF name                   |
| all                    | (Optional) Display information for all VRFs |
| details                | (Optional) details                          |
| <i>__readonly__</i>    | (Optional)                                  |
| TABLE_bfdNeighbor      | (Optional) BFD Neighbor table               |
| <i>header</i>          | (Optional) Header                           |
| <i>sess_type</i>       | (Optional) Session type                     |
| <i>vrf_name</i>        | (Optional) vrf name                         |
| <i>src_ip_addr</i>     | (Optional) Source IPV4 address              |
| <i>dest_ip_addr</i>    | (Optional) Destination IPV4 address         |
| <i>local_disc</i>      | (Optional) Local Discriminator              |
| <i>remote_disc</i>     | (Optional) Remote Discriminator             |
| <i>local_state</i>     | (Optional) Local State                      |
| <i>remote_state</i>    | (Optional) Remote State                     |
| <i>holddown</i>        | (Optional) Hold Down Time                   |
| <i>cur_detect_mult</i> | (Optional) Current Detection Multiplier     |
| <i>intf</i>            | (Optional) Interface                        |
| <i>echo</i>            | (Optional) Echo enabled                     |
| <i>echo_tx</i>         | (Optional) Echo Tx Interval                 |
| <i>local_diag</i>      | (Optional) Local Diag                       |
| <i>demand</i>          | (Optional) Demand Mode                      |
| <i>poll</i>            | (Optional) Poll Bit                         |
| <i>min_tx</i>          | (Optional) Local Min Tx Interval            |
| <i>min_rx</i>          | (Optional) Local Min Rx Interval            |
| <i>local_multi</i>     | (Optional) Local Detection Multiplier       |
| <i>detect_timer</i>    | (Optional) Current Detection Timer          |
| <i>tx_interval</i>     | (Optional) Tx Interval                      |
| <i>rx_count</i>        | (Optional) Tx Count                         |

|                          |  |
|--------------------------|--|
| <i>rx_avg</i>            | (Optional) Rx Interval Avg                     |
| <i>rx_min</i>            | (Optional) Rx Interval Min                     |
| <i>rx_max</i>            | (Optional) Rx Interval Max                     |
| <i>last_rx</i>           | (Optional) Last Rx time                        |
| <i>tx_count</i>          | (Optional) Tx Count                            |
| <i>tx_avg</i>            | (Optional) Tx Interval Avg                     |
| <i>tx_min</i>            | (Optional) Tx Interval Min                     |
| <i>tx_max</i>            | (Optional) Tx Interval Max                     |
| <i>last_tx</i>           | (Optional) Last Tx time                        |
| <i>app</i>               | (Optional) App name                            |
| <i>up_time</i>           | (Optional) Up time                             |
| <i>up_count</i>          | (Optional) Up Count                            |
| <i>down_count</i>        | (Optional) Down Count                          |
| <i>version</i>           | (Optional) Version in Last Packet              |
| <i>diag</i>              | (Optional) diag in Last Packet                 |
| <i>state_bit</i>         | (Optional) State Bit in Last Packet            |
| <i>demand_bit</i>        | (Optional) Demand Bit in Last Packet           |
| <i>poll_bit</i>          | (Optional) Poll Bit in Last Packet             |
| <i>final_bit</i>         | (Optional) Final Bit in Last Packet            |
| <i>multiplier</i>        | (Optional) Detection Multiplier in Last Packet |
| <i>length</i>            | (Optional) Length in Last Packet               |
| <i>my_disc</i>           | (Optional) My Discriminator in Last Packet     |
| <i>your_disc</i>         | (Optional) Your Discriminator in Last Packet   |
| <i>min_tx_interval</i>   | (Optional) Min Tx Interval in Last Packet      |
| <i>req_min_rx</i>        | (Optional) Required Rx Interval in Last Packet |
| <i>min_echo_interval</i> | (Optional) Min Echo Interval in Last Packet    |
| <i>out_str</i>           | (Optional) No Host LC string                   |
| <i>parent</i>            | (Optional) Parent Session                      |
| <i>per_link_str</i>      | (Optional) Per Link string                     |

|                       |                                    |
|-----------------------|------------------------------------|
| <i>host_lc</i>        | (Optional) Host LC                 |
| <i>down_reason</i>    | (Optional) Session Down Reason     |
| <i>no_host_reason</i> | (Optional) Not Hosted Reason       |
| <i>auth</i>           | (Optional) Authentication Mode     |
| <i>auth_bit</i>       | (Optional) Auth Bit in Last Packet |
| <i>print_details</i>  | (Optional) print details           |

**Command Mode**

- /exec

## show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { { ipv4 { unicast |
multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv4 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | link-state | l2vpn vpls [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | l2vpn evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4
mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast } nextthop <ipnextthop>
| { ipv6 { unicast | multicast } | vpnv6 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] |
ipv6 labeled-unicast | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] } nextthop
<ipv6nextthop> } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id>
] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> |
<nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed>
<needsresync> <locked> ] [ <table-map-filtered> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel>
] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode>
<bestcode> <typecode> { <ipnextthop> | <ipv6nextthop> } { { <inlabel> <outlabel> <vpn> <hold_down> }
| { <weight> <aspath> <origin> [ <metric> ] [ <localpref> ] } } } | { { <policyincomplete> <pathvalid>
<pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<pathnolabeledrn> } [ <importsource> [ <originalimportsource> ] ] [ <importdestscount> ] [
TABLE_importdests <importdest> ] [ <existpath> ] [ <aspath> <source> ] { <ipnextthop> | <ipv6nextthop>
} <nextthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight>
[ <aggregator> <aggregators> <atomicaggregate> ] [ <inlabel> ] [ <originflag> ] [ { TABLE_community
<community> } ] [ { TABLE_extcommunity <extcommunity> } ] [ <originatorid> { TABLE_clusterlist
<clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime> <flapflags> <flapindex> <flaphalflife>
<flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [
<psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len> <psid_v6sid> ] [ <psid_origrsgb_len>
<psid_origrsgb_flag> <psid_origrsgb_base> <psid_origrsgb_end> ] ] [ <remotenh> <remotenh_encap>
<remotenh_vnid> <remotenh_mac> ] [ <pmssi> ] [ <evpn-esi> ] [ <link-state-attr> <link-state-attr-len> ] [
<mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ]
]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                              |
| bgp                       | Display BGP status and configuration                         |
| rd                        | (Optional) Display information for a route distinguisher     |
| <i>ext-comm-rd-aa4nn2</i> | (Optional) VPN route distinguisher in aa4:nn or ip:nn format |
| <i>ext-comm-rd-aa2nn4</i> | (Optional) VPN route distinguisher in aa:nn format           |
| vrf                       | (Optional) Virtual Router Context                            |
| <i>vrf-name</i>           | (Optional) VRF name  |
| <i>vrf-known-name</i>     | (Optional) Known VRF name                                    |
| nextthop                  | Display routes matching the nextthop                         |
| <i>ipnextthop</i>         | Nextthop address   |



|                      |  |
|----------------------|--|
| ipv4                 | Display BGP information for IPv4 address family            |
| ipv6                 | Display BGP information for IPv6 address family            |
| vpnv4                | Display BGP information for VPNv4 address family           |
| vpnv6                | Display BGP information for VPNv6 address family           |
| unicast              | Display BGP information for unicast address family         |
| multicast            | Display BGP information for multicast address family       |
| mdt                  | Display BGP information for multicast distribution tree    |
| link-state           | Display BGP information for link-state address family      |
| l2vpn                | Display BGP information for L2VPN address family           |
| vpls                 | Display BGP information for L2VPN VPLS address family      |
| evpn                 | Display BGP information for L2VPN EVPN address family      |
| mvpn                 | Display BGP information for MVPN address family            |
| labeled-unicast      | Display BGP information for labeled-unicast address family |
| __readonly__         | (Optional)   |
| TABLE_vrf            | (Optional)   |
| <i>vrf-name-out</i>  | (Optional)   |
| TABLE_afi            | (Optional)   |
| <i>afi</i>           | (Optional)   |
| TABLE_safi           | (Optional)   |
| <i>safi</i>          | (Optional)   |
| <i>af-name</i>       | (Optional)   |
| <i>table-version</i> | (Optional)   |
| <i>router-id</i>     | (Optional)   |
| TABLE_rd             | (Optional)   |
| <i>rd_val</i>        | (Optional)   |
| <i>rd_vrf</i>        | (Optional)   |
| <i>rd_vniid</i>      | (Optional)   |
| TABLE_prefix         | (Optional)   |
| <i>ipprefix</i>      | (Optional)   |

|                            |            |
|----------------------------|------------|
| <i>nonipprefix</i>         | (Optional) |
| <i>totalpaths</i>          | (Optional) |
| <i>bestpathnr</i>          | (Optional) |
| <i>mpath</i>               | (Optional) |
| TABLE_ <i>advertisedto</i> | (Optional) |
| <i>advertisedto</i>        | (Optional) |
| TABLE_ <i>scheduledto</i>  | (Optional) |
| <i>scheduledto</i>         | (Optional) |
| <i>prefixversion</i>       | (Optional) |
| <i>on-newlist</i>          | (Optional) |
| <i>on-xmitlist</i>         | (Optional) |
| <i>suppressed</i>          | (Optional) |
| <i>needsresync</i>         | (Optional) |
| <i>locked</i>              | (Optional) |
| <i>table-map-filtered</i>  | (Optional) |
| <i>export-on-newlist</i>   | (Optional) |
| <i>export-on-xmitlist</i>  | (Optional) |
| <i>locallabel</i>          | (Optional) |
| <i>labelhldwstr</i>        | (Optional) |
| TABLE_ <i>path</i>         | (Optional) |
| <i>pathnr</i>              | (Optional) |
| <i>best</i>                | (Optional) |
| <i>status</i>              | (Optional) |
| <i>type</i>                | (Optional) |
| <i>statuscode</i>          | (Optional) |
| <i>bestcode</i>            | (Optional) |
| <i>typecode</i>            | (Optional) |
| <i>ipnexthop</i>           | (Optional) |
| <i>neighbor</i>            | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>neighborid</i>           | (Optional) |
| <i>metric</i>               | (Optional) |
| <i>localpref</i>            | (Optional) |
| <i>weight</i>               | (Optional) |
| <i>importsource</i>         | (Optional) |
| <i>originalimportsource</i> | (Optional) |
| <i>importdestscount</i>     | (Optional) |
| TABLE_importdests           | (Optional) |
| <i>importdest</i>           | (Optional) |
| <i>existpath</i>            | (Optional) |
| <i>aspath</i>               | (Optional) |
| <i>origin</i>               | (Optional) |
| <i>source</i>               | (Optional) |
| <i>policyincomplete</i>     | (Optional) |
| <i>pathvalid</i>            | (Optional) |
| <i>pathbest</i>             | (Optional) |
| <i>pathdeleted</i>          | (Optional) |
| <i>pathstaled</i>           | (Optional) |
| <i>pathhistory</i>          | (Optional) |
| <i>pathmultipath</i>        | (Optional) |
| <i>pathovermaxaslimit</i>   | (Optional) |
| <i>pathnolabeledrn</i>      | (Optional) |
| <i>nexthopmetric</i>        | (Optional) |
| <i>aggregator</i>           | (Optional) |
| <i>aggregatoras</i>         | (Optional) |
| <i>atomicaggregate</i>      | (Optional) |
| <i>inlabel</i>              | (Optional) |
| <i>originflag</i>           | (Optional) |
| <i>vpn</i>                  | (Optional) |

|                            |            |
|----------------------------|------------|
| <i>hold_down</i>           | (Optional) |
| <i>outlabel</i>            | (Optional) |
| <i>flappenalty</i>         | (Optional) |
| <i>dampenedtime</i>        | (Optional) |
| <i>flaps</i>               | (Optional) |
| <i>flaptime</i>            | (Optional) |
| <i>flapflags</i>           | (Optional) |
| <i>flapindex</i>           | (Optional) |
| <i>flaphalflife</i>        | (Optional) |
| <i>flapreuse</i>           | (Optional) |
| <i>flapsuppress</i>        | (Optional) |
| <i>flapmax</i>             | (Optional) |
| <i>con_type</i>            | (Optional) |
| <i>con_len</i>             | (Optional) |
| <i>con_rd</i>              | (Optional) |
| <i>con_ip</i>              | (Optional) |
| <i>mdt_grp_addr</i>        | (Optional) |
| <i>evpn-esi</i>            | (Optional) |
| <i>link-state-attr</i>     | (Optional) |
| <i>link-state-attr-len</i> | (Optional) |
| TABLE_community            | (Optional) |
| <i>community</i>           | (Optional) |
| TABLE_extcommunity         | (Optional) |
| <i>extcommunity</i>        | (Optional) |
| <i>originatorid</i>        | (Optional) |
| TABLE_clusterlist          | (Optional) |
| <i>clusterlist</i>         | (Optional) |
| <i>remotenh</i>            | (Optional) |
| <i>remotenh_encap</i>      | (Optional) |

|                           |            |
|---------------------------|------------|
| <i>remotenh_vnid</i>      | (Optional) |
| <i>remotenh_mac</i>       | (Optional) |
| <i>pmsi</i>               | (Optional) |
| <i>psid_len</i>           | (Optional) |
| <i>psid_lindx_len</i>     | (Optional) |
| <i>psid_lindx_flag</i>    | (Optional) |
| <i>psid_lindx</i>         | (Optional) |
| <i>psid_v6sid_len</i>     | (Optional) |
| <i>psid_origsrgb_len</i>  | (Optional) |
| <i>psid_origsrgb_flag</i> | (Optional) |
| <i>psid_origsrgb_base</i> | (Optional) |
| <i>psid_origsrgb_end</i>  | (Optional) |

**Command Mode**

- /exec

## show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } policy statistics { { redistribute [ { { eigrp | isis | ospf | rip } <tag> } | static | direct | amt | lisp |
hmm | am ] } | { neighbor <neighbor-id> [ default-originate | { route-map | filter-list | prefix-list } { in | out }
] } | { dampening } | { network { <ip-addr> mask <ip-mask> | <ip-prefix> } } | { aggregate-address { <ip-addr>
<ip-mask> | <ip-prefix> } { suppress-map | advertise-map } } } | vpnv4 unicast policy statistics { neighbor
<neighbor-id> [ { route-map | filter-list | prefix-list } { in | out } ] } | ipv6 { unicast | multicast } policy statistics
{ { redistribute [ { { eigrp | isis | ospfv3 | rip } <tag> } | static | direct | amt | lisp | hmm | am ] } | { neighbor
{ <neighbor-id> | <ipv6-neighbor-id> } [ default-originate | { route-map | filter-list | prefix-list } { in | out }
] } | { dampening } | { network <ipv6-prefix> } | { aggregate-address <ipv6-prefix> { suppress-map |
advertise-map } } } } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [
__readonly__ TABLE_vrf <vrf-name-polstats> [ <rpm-handle-count> ] [ { TABLE_rmap <name> <action>
<seqnum> [ { TABLE_cmd <command> <comparecount> <matchcount> } ] [ <totalacceptcount> ] [
<totalrejectcount> ] } ] ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                      |
| bgp                   | Display BGP status and configuration                 |
| vrf                   | (Optional) Virtual Router Context                    |
| <i>vrf-name</i>       | (Optional) VRF name                                  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                            |
| ipv4                  | Display BGP information for IPv4 address family      |
| ipv6                  | Display BGP information for IPv6 address family      |
| vpnv4                 | Display BGP information for VPNv4 address family     |
| unicast               | Display BGP information for unicast address family   |
| multicast             | Display BGP information for multicast address family |
| policy                | Display policy related information                   |
| statistics            | Display Route Filter statistics                      |
| redistribute          | Statistics for redistribution                        |
| isis                  | (Optional) ISO IS-IS                                 |
| ospf                  | (Optional) Open Shortest Path First                  |
| ospfv3                | (Optional) Open Shortest Path First v3               |
| rip                   | (Optional) Routing Information Protocol              |
| eigrp                 | (Optional) Enhanced Interior Gateway Protocol        |

|                          |   |
|--------------------------|---|
| static                   | (Optional) Static routes                            |
| direct                   | (Optional) Directly connected                       |
| amt                      | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED           |
| lisp                     | (Optional) LISP EID-prefixes in the non-default VRF |
| hmm                      | (Optional) HMM prefix                               |
| am                       | (Optional) AM routes (learned via ARP)              |
| <i>tag</i>               | (Optional) Source protocol tag                      |
| neighbor                 | Show neighbor specific counters                     |
| <i>neighbor-id</i>       | Neighbor IPv4 address                               |
| route-map                | (Optional) Neighbor route-map                       |
| prefix-list              | (Optional) Neighbor prefix-list                     |
| filter-list              | (Optional) Neighbor filter-list                     |
| out                      | (Optional) Outbound policy                          |
| in                       | (Optional) Inbound policy                           |
| default-originate        | (Optional) Default-originate policy                 |
| dampening                | Show dampening info                                 |
| network                  | Configured IP prefix to advertise                   |
| mask                     | Configured mask of the IP prefix advertised         |
| aggregate-address        | Configured BGP aggregate prefixes                   |
| suppress-map             | Statistics of suppress policy                       |
| advertise-map            | Statistics of advertise policy                      |
| <i>ip-addr</i>           | IP network advertised                               |
| <i>ip-mask</i>           | Dotted 4-octet mask                                 |
| <i>ip-prefix</i>         | IP prefix in CIDR format                            |
| __readonly__             | (Optional)  |
| TABLE_vrf                | (Optional)  |
| <i>vrf-name-polstats</i> | (Optional)  |
| <i>rpm-handle-count</i>  | (Optional)  |
| TABLE_rmap               | (Optional)  |

|                         |            |
|-------------------------|------------|
| <i>name</i>             | (Optional) |
| <i>action</i>           | (Optional) |
| <i>seqnum</i>           | (Optional) |
| TABLE_cmd               | (Optional) |
| <i>command</i>          | (Optional) |
| <i>comparecount</i>     | (Optional) |
| <i>matchcount</i>       | (Optional) |
| <i>totalacceptcount</i> | (Optional) |
| <i>totalrejectcount</i> | (Optional) |

**Command Mode**

- /exec



## show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { { ipv4 { unicast |
multicast } | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast
} [ <ip-addr> [ <ip-mask> [ longer-prefixes ] ] [ detail ] | <ip-prefix> [ longer-prefixes ] [ detail ] | labels |
exported | imported | detail ] | { ipv6 { unicast | multicast } | vpnv6 unicast [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast } [ <ipv6-prefix> [ longer-prefixes ] [ detail ] | labels |
exported | imported | detail ] | { ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] } [
<ip-addr> [ <ip-mask> ] | <ip-prefix> | labels | mdt-group <mdt-group> ] | { ipv4 | ipv6 } unicast [
injected-routes ] | link-state [ route-type <rt-type> | <ipv4-ls-rt> | <ipv6-ls-rt> ] | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } [ { <ip-addr> [ <ip-mask> ] | <ip-prefix> } ] | { ve-id
<ve-id> block-offset <ve-bs> } ] ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } [
join <v4src-addr> <v4grp-addr> <src-asn> | rp <v4src-addr> <grp-v4prefix> <pe-addr> <rp-flags> <rp-priority>
<hashlen> | sa <grp-v4prefix> | sa-ad <v4src-addr> <v4grp-addr> | route-type { 1 | 2 | 3 | 4 | 5 | 6 | 7 } [ detail
] ] | route-type { 1 | 2 | 3 | 4 | 5 | 6 | 7 } [ detail ] | join [ detail ] | sa-ad [ detail ] | i-pmsi [ detail ] ] | ipv6 mvpn
[ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } [ join <v6src-addr> <v6grp-addr> <src-asn> | rp
<v6src-addr> <grp-v6prefix> <pe-addr> <rp-flags> <rp-priority> <hashlen> | sa <grp-v6prefix> | sa-ad
<v6src-addr> <v6grp-addr> | route-type { 1 | 2 | 3 | 4 | 5 | 6 | 7 } [ detail ] ] | route-type { 1 | 2 | 3 | 4 | 5 | 6 | 7
} [ detail ] | join [ detail ] | sa-ad [ detail ] | i-pmsi [ detail ] ] | l2vpn evpn [ route-type <rtype> [ etid <et> ] |
rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } [ route-type <rtype> [ etid <et> ] | <ipv4-evpn-rt> |
<ipv6-evpn-rt> | <mac-address> ] | vni-id <vni_id> [ route-type <rtype> ] | es <es-id> [ route-type <rtype> [
etid <et> ] ] | <ipv4-evpn-rt> | <ipv6-evpn-rt> | <mac-address> ] | all [ detail ] ] | vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out>
TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [
<rd_vrf> ] ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } ] [ <prefixversion>
<totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [
<table-map-filtered> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [
<mpath> ] ] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> {
<ipnexthop> | <ipv6nexthop> } } { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath>
<origin> [ <metric> ] [ <localpref> ] ] } } | { [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted>
<pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabelednrh> ] [ <importsource>
[ <originalimportsource> ] ] [ <importdestscout> ] [ TABLE_importdests <importdest> ] [ <existpath> ] [
<aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> }
<neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator> <aggregatoras> <atomicaggregate>
] [ <inlabel> ] [ <originflag> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity
<extcommunity> } ] [ <originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime>
<flaps> <flaptime> <flapflags> <flapindex> <flaphalflife> <flapreuse> <flapsuppress> <flapmax> ] [
<con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx>
] [ <psid_v6sid_len> <psid_v6sid> ] [ <psid_origsrgrb_len> <psid_origsrgrb_flag> <psid_origsrgrb_base>
<psid_origsrgrb_end> ] ] [ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ]
[ <evpn-esi> ] [ <link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> ] } } ] [ TABLE_advertisedto
<advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ] ]
```

### Syntax Description

|      |                                      |
|------|--------------------------------------|
| show | Show running system information      |
| bgp  | Display BGP status and configuration |
| vrf  | (Optional) Virtual Router Context    |

|                       |   |
|-----------------------|---|
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name   |
| <i>ip-addr</i>        | (Optional) Display one particular network from the BRIB in detail |
| <i>ip-mask</i>        | (Optional) Mask for one particular prefix in the BRIB             |
| <i>ip-prefix</i>      | (Optional) Display one particular prefix from the BRIB in detail  |
| longer-prefixes       | (Optional) Display route and more specific routes                 |
| labels                | (Optional) Display BGP labels for prefixes                        |
| exported              | (Optional) Display only exported prefixes                         |
| imported              | (Optional) Display only imported prefixes                         |
| injected-routes       | (Optional) Display only injected prefixes                         |
| mdt-group             | (Optional) Display prefixes with MDT group address                |
| <i>mdt-group</i>      | (Optional) MDT group address                                      |
| rd                    | (Optional) Display information for a route distinguisher          |
| ve-id                 | (Optional) VPLS VE ID   |
| <i>ve-id</i>          | (Optional) VPLS VE ID   |
| route-type            | (Optional) EVPN Route Type number                                 |
| <i>rtype</i>          | (Optional) EVPN route type number                                 |
| 1                     | (Optional) Inter-AS PMSI AD                                       |
| 2                     | (Optional) Intra-AS PMSI AD                                       |
| 3                     | (Optional) SPMSI AD   |
| 4                     | (Optional) LEAF AD  |
| 5                     | (Optional) Source-Active AD                                       |
| 6                     | (Optional) Shared C-Multicast                                     |
| 7                     | (Optional) Source C-Multicast                                     |
| vni-id                | (Optional) EVPN VNI ID number                                     |
| <i>vni_id</i>         | (Optional) EVPN VNI ID number                                     |
| <i>rt-type</i>        | (Optional) Link-State route-type                                  |
| es                    | (Optional) Ethernet Segment                                       |
| <i>es-id</i>          | (Optional) ESID   |

|                           |   |
|---------------------------|---|
| <i>etid</i>               | (Optional) Ethernet Tag-ID for L2VPN EVPN route                   |
| <i>et</i>                 | (Optional) Ethernet Tag-ID  |
| <i>ipv4-evpn-rt</i>       | (Optional) EVPN IPv4 address                                      |
| <i>ipv4-ls-rt</i>         | (Optional) Link-State NLRI with descriptor including IPv4 address |
| <i>mac-address</i>        | (Optional) MAC address  |
| <i>block-offset</i>       | (Optional) VPLS VE Block offset                                   |
| <i>ve-bs</i>              | (Optional) VPLS VE Block offset                                   |
| <i>ext-comm-rd-aa4nn2</i> | (Optional) VPN route distinguisher in aa4:nn or ip:nn format      |
| <i>ext-comm-rd-aa2nn4</i> | (Optional) VPN route distinguisher in aa:nn format                |
| <i>ipv4</i>               | Display BGP information for IPv4 address family                   |
| <i>vpn4</i>               | Display BGP information for VPNv4 address family                  |
| <i>vpn6</i>               | Display BGP information for VPNv6 address family                  |
| <i>ipv6</i>               | Display BGP information for IPv6 address family                   |
| <i>unicast</i>            | Display BGP information for unicast address family                |
| <i>multicast</i>          | Display BGP information for multicast address family              |
| <i>mdt</i>                | Display BGP information for multicast distribution tree           |
| <i>link-state</i>         | Display BGP information for link-state address family             |
| <i>l2vpn</i>              | Display BGP information for L2VPN address family                  |
| <i>vpls</i>               | Display BGP information for L2VPN VPLS address family             |
| <i>labeled-unicast</i>    | Display BGP information for labeled-unicast address family        |
| <i>mvpn</i>               | Display BGP information for MVPN address family                   |
| <i>evpn</i>               | Display BGP information for L2VPN EVPN address family             |
| <i>all</i>                | Display BGP information for all address families                  |
| <i>join</i>               | (Optional) Display Multicast Join route                           |
| <i>detail</i>             | (Optional) Display detailed path info for routes                  |
| <i>sa</i>                 | (Optional) Display Multicast Source Active AD route               |
| <i>sa-ad</i>              | (Optional) Display Multicast Source Active AD route               |
| <i>i-pmsi</i>             | (Optional) Display Multicast Intra-AS I-PMSI route                |
| <i>rp</i>                 | (Optional) Display Multicast Group to RP route                    |

|                      |                              |
|----------------------|------------------------------|
| <i>v4src-addr</i>    | (Optional) Source IP Address |
| <i>src-asn</i>       | (Optional) Source ASN        |
| <i>v4grp-addr</i>    | (Optional) Group IP Address  |
| <i>grp-v4prefix</i>  | (Optional) Group IP prefix   |
| <i>pe-addr</i>       | (Optional) PE IP Address     |
| <i>rp-flags</i>      | (Optional) Flags             |
| <i>rp-priority</i>   | (Optional) RP Priority       |
| <i>hashlen</i>       | (Optional) Hash mask length  |
| <i>l</i>             | (Optional) vrf               |
| <i>__readonly__</i>  | (Optional)                   |
| TABLE_vrf            | (Optional)                   |
| <i>vrf-name-out</i>  | (Optional)                   |
| TABLE_afi            | (Optional)                   |
| <i>afi</i>           | (Optional)                   |
| TABLE_safi           | (Optional)                   |
| <i>safi</i>          | (Optional)                   |
| <i>af-name</i>       | (Optional)                   |
| <i>table-version</i> | (Optional)                   |
| <i>router-id</i>     | (Optional)                   |
| TABLE_rd             | (Optional)                   |
| <i>rd_val</i>        | (Optional)                   |
| <i>rd_vrf</i>        | (Optional)                   |
| <i>rd_vniid</i>      | (Optional)                   |
| TABLE_prefix         | (Optional)                   |
| <i>ipprefix</i>      | (Optional)                   |
| <i>nonipprefix</i>   | (Optional)                   |
| <i>totalpaths</i>    | (Optional)                   |
| <i>bestpathnr</i>    | (Optional)                   |
| <i>mpath</i>         | (Optional)                   |

|                           |            |
|---------------------------|------------|
| TABLE_advertisedto        | (Optional) |
| <i>advertisedto</i>       | (Optional) |
| TABLE_scheduledto         | (Optional) |
| <i>scheduledto</i>        | (Optional) |
| <i>prefixversion</i>      | (Optional) |
| <i>on-newlist</i>         | (Optional) |
| <i>on-xmitlist</i>        | (Optional) |
| <i>suppressed</i>         | (Optional) |
| <i>needsresync</i>        | (Optional) |
| <i>locked</i>             | (Optional) |
| <i>table-map-filtered</i> | (Optional) |
| <i>export-on-newlist</i>  | (Optional) |
| <i>export-on-xmitlist</i> | (Optional) |
| <i>locallabel</i>         | (Optional) |
| <i>labelhldwstr</i>       | (Optional) |
| TABLE_path                | (Optional) |
| <i>pathnr</i>             | (Optional) |
| <i>best</i>               | (Optional) |
| <i>status</i>             | (Optional) |
| <i>type</i>               | (Optional) |
| <i>statuscode</i>         | (Optional) |
| <i>bestcode</i>           | (Optional) |
| <i>typecode</i>           | (Optional) |
| <i>ipnexthop</i>          | (Optional) |
| <i>neighbor</i>           | (Optional) |
| <i>neighborid</i>         | (Optional) |
| <i>metric</i>             | (Optional) |
| <i>localpref</i>          | (Optional) |
| <i>weight</i>             | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>importsource</i>         | (Optional) |
| <i>originalimportsource</i> | (Optional) |
| <i>importdestscount</i>     | (Optional) |
| TABLE_ <i>importdests</i>   | (Optional) |
| <i>importdest</i>           | (Optional) |
| <i>existpath</i>            | (Optional) |
| <i>aspath</i>               | (Optional) |
| <i>origin</i>               | (Optional) |
| <i>source</i>               | (Optional) |
| <i>policyincomplete</i>     | (Optional) |
| <i>pathvalid</i>            | (Optional) |
| <i>pathbest</i>             | (Optional) |
| <i>pathdeleted</i>          | (Optional) |
| <i>pathstaled</i>           | (Optional) |
| <i>pathhistory</i>          | (Optional) |
| <i>pathmultipath</i>        | (Optional) |
| <i>pathovermaxaslimit</i>   | (Optional) |
| <i>pathnolabeledrn</i>      | (Optional) |
| <i>nexthopmetric</i>        | (Optional) |
| <i>aggregator</i>           | (Optional) |
| <i>aggregatoras</i>         | (Optional) |
| <i>atomicaggregate</i>      | (Optional) |
| <i>inlabel</i>              | (Optional) |
| <i>originflag</i>           | (Optional) |
| <i>vpn</i>                  | (Optional) |
| <i>hold_down</i>            | (Optional) |
| <i>outlabel</i>             | (Optional) |
| <i>flappenalty</i>          | (Optional) |
| <i>dampenedtime</i>         | (Optional) |

|                            |            |
|----------------------------|------------|
| <i>flaps</i>               | (Optional) |
| <i>flaptime</i>            | (Optional) |
| <i>flapflags</i>           | (Optional) |
| <i>flapindex</i>           | (Optional) |
| <i>flaphalflife</i>        | (Optional) |
| <i>flapreuse</i>           | (Optional) |
| <i>flapsuppress</i>        | (Optional) |
| <i>flapmax</i>             | (Optional) |
| <i>con_type</i>            | (Optional) |
| <i>con_len</i>             | (Optional) |
| <i>con_rd</i>              | (Optional) |
| <i>con_ip</i>              | (Optional) |
| <i>mdt_grp_addr</i>        | (Optional) |
| <i>evpn-esi</i>            | (Optional) |
| <i>link-state-attr</i>     | (Optional) |
| <i>link-state-attr-len</i> | (Optional) |
| TABLE_community            | (Optional) |
| <i>community</i>           | (Optional) |
| TABLE_extcommunity         | (Optional) |
| <i>extcommunity</i>        | (Optional) |
| <i>originatorid</i>        | (Optional) |
| TABLE_clusterlist          | (Optional) |
| <i>clusterlist</i>         | (Optional) |
| <i>remotenh</i>            | (Optional) |
| <i>remotenh_encap</i>      | (Optional) |
| <i>remotenh_vnid</i>       | (Optional) |
| <i>remotenh_mac</i>        | (Optional) |
| <i>pmsi</i>                | (Optional) |
| <i>psid_len</i>            | (Optional) |

|                           |            |
|---------------------------|------------|
| <i>psid_lindx_len</i>     | (Optional) |
| <i>psid_lindx_flag</i>    | (Optional) |
| <i>psid_lindx</i>         | (Optional) |
| <i>psid_v6sid_len</i>     | (Optional) |
| <i>psid_origsrgb_len</i>  | (Optional) |
| <i>psid_origsrgb_flag</i> | (Optional) |
| <i>psid_origsrgb_base</i> | (Optional) |
| <i>psid_origsrgb_end</i>  | (Optional) |

**Command Mode**

- /exec



# show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } { route-map {
<rmap-name> | <rmap-name> } | filter-list { <fltrlist-name> | <test_pol_name> } | community-list {
<commlist-name> | <test_pol_name> } | extcommunity-list { <extcommllist-name> | <test_pol_name> } } [
exact-match ] ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id>
] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> |
<nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed>
<needsresync> <locked> ] [ <table-map-filtered> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel>
] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode>
<bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { <inlabel> <outlabel> <vpn> <hold_down> }
| { <weight> <aspath> <origin> [ <metric> ] [ <localpref> ] } } } | { <policyincomplete> <pathvalid>
<pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<pathnolabeledrn> ] [ <importsource> [ <originalimportsource> ] ] [ <importdstscout> ] [
TABLE_importdsts <importdest> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop>
} <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight>
[ <aggregator> <aggregatoras> <atomicaggregate> ] [ <inlabel> ] [ <originflag> ] [ { TABLE_community
<community> } ] [ { TABLE_extcommunity <extcommunity> } ] [ <originatorid> { TABLE_clusterlist
<clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime> <flapflags> <flapindex> <flaphalflife>
<flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [
<psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len> <psid_v6sid> ] [ <psid_origrsrgb_len>
<psid_origrsrgb_flag> <psid_origrsrgb_base> <psid_origrsrgb_end> ] ] [ <remotenh> <remotenh_encap>
<remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [ <link-state-attr> <link-state-attr-len> ] [
<mdt_grp_addr> } } } ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ]
]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information         |
| bgp                   | Display BGP status and configuration    |
| vrf                   | (Optional) Virtual Router Context       |
| <i>vrf-name</i>       | (Optional) VRF name                     |
| <i>vrf-known-name</i> | (Optional) Known VRF name               |
| route-map             | Display routes matching the route-map   |
| <i>rmap-name</i>      | Route-map name                          |
| <i>rmap-name</i>      | Known route-map name                    |
| filter-list           | Display routes matching the filter-list |

|                           |  |
|---------------------------|--|
| <i>fltrlist-name</i>      | Name of filter-list  |
| community-list            | Display routes matching the community-list                   |
| <i>commllist-name</i>     | Name of community-list                                       |
| extcommunity-list         | Display routes matching the extcommunity-list                |
| <i>extcommllist-name</i>  | Name of extcommunity-list                                    |
| <i>test_pol_name</i>      | An existing test-list policy                                 |
| rd                        | (Optional) Display information for a route distinguisher     |
| <i>ext-comm-rd-aa4nn2</i> | (Optional) VPN route distinguisher in aa4:nn or ip:nn format |
| <i>ext-comm-rd-aa2nn4</i> | (Optional) VPN route distinguisher in aa:nn format           |
| ipv4                      | Display BGP information for IPv4 address family              |
| vpn4                      | Display BGP information for VPNv4 address family             |
| vpn6                      | Display BGP information for VPNv6 address family             |
| ipv6                      | Display BGP information for IPv6 address family              |
| unicast                   | Display BGP information for unicast address family           |
| multicast                 | Display BGP information for multicast address family         |
| mdt                       | Display BGP information for multicast distribution tree      |
| labeled-unicast           | Display BGP information for labeled-unicast address family   |
| link-state                | Display BGP information for link-state address family        |
| l2vpn                     | Display BGP information for L2VPN address family             |
| vpls                      | Display BGP information for L2VPN VPLS address family        |
| mvpn                      | Display BGP information for MVPN address family              |
| evpn                      | Display BGP information for L2VPN EVPN address family        |
| all                       | Display BGP information for all address families             |
| exact-match               | (Optional) Exact match of the communities                    |
| __readonly__              | (Optional)   |
| TABLE_vrf                 | (Optional)   |
| <i>vrf-name-out</i>       | (Optional)   |
| TABLE_afi                 | (Optional)   |
| <i>afi</i>                | (Optional)   |

|                           |            |
|---------------------------|------------|
| TABLE_safi                | (Optional) |
| <i>safi</i>               | (Optional) |
| <i>af-name</i>            | (Optional) |
| <i>table-version</i>      | (Optional) |
| <i>router-id</i>          | (Optional) |
| TABLE_rd                  | (Optional) |
| <i>rd_val</i>             | (Optional) |
| <i>rd_vrf</i>             | (Optional) |
| <i>rd_vniid</i>           | (Optional) |
| TABLE_prefix              | (Optional) |
| <i>ipprefix</i>           | (Optional) |
| <i>nonipprefix</i>        | (Optional) |
| <i>totalpaths</i>         | (Optional) |
| <i>bestpathnr</i>         | (Optional) |
| <i>mpath</i>              | (Optional) |
| TABLE_advertisedto        | (Optional) |
| <i>advertisedto</i>       | (Optional) |
| TABLE_scheduledto         | (Optional) |
| <i>scheduledto</i>        | (Optional) |
| <i>prefixversion</i>      | (Optional) |
| <i>on-newlist</i>         | (Optional) |
| <i>on-xmitlist</i>        | (Optional) |
| <i>suppressed</i>         | (Optional) |
| <i>needsresync</i>        | (Optional) |
| <i>locked</i>             | (Optional) |
| <i>table-map-filtered</i> | (Optional) |
| <i>export-on-newlist</i>  | (Optional) |
| <i>export-on-xmitlist</i> | (Optional) |
| <i>locallabel</i>         | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>labelhldwstr</i>         | (Optional) |
| TABLE_path                  | (Optional) |
| <i>pathnr</i>               | (Optional) |
| <i>best</i>                 | (Optional) |
| <i>status</i>               | (Optional) |
| <i>type</i>                 | (Optional) |
| <i>statuscode</i>           | (Optional) |
| <i>bestcode</i>             | (Optional) |
| <i>typecode</i>             | (Optional) |
| <i>ipnexthop</i>            | (Optional) |
| <i>neighbor</i>             | (Optional) |
| <i>neighborid</i>           | (Optional) |
| <i>metric</i>               | (Optional) |
| <i>localpref</i>            | (Optional) |
| <i>weight</i>               | (Optional) |
| <i>importsource</i>         | (Optional) |
| <i>originalimportsource</i> | (Optional) |
| <i>importdestscount</i>     | (Optional) |
| TABLE_importdests           | (Optional) |
| <i>importdest</i>           | (Optional) |
| <i>existpath</i>            | (Optional) |
| <i>aspath</i>               | (Optional) |
| <i>origin</i>               | (Optional) |
| <i>source</i>               | (Optional) |
| <i>policyincomplete</i>     | (Optional) |
| <i>pathvalid</i>            | (Optional) |
| <i>pathbest</i>             | (Optional) |
| <i>pathdeleted</i>          | (Optional) |
| <i>pathstaled</i>           | (Optional) |

|                           |            |
|---------------------------|------------|
| <i>pathhistory</i>        | (Optional) |
| <i>pathmultipath</i>      | (Optional) |
| <i>pathovermaxaslimit</i> | (Optional) |
| <i>pathnolabeledrn</i>    | (Optional) |
| <i>nexthopmetric</i>      | (Optional) |
| <i>aggregator</i>         | (Optional) |
| <i>aggregatoras</i>       | (Optional) |
| <i>atomicaggregate</i>    | (Optional) |
| <i>inlabel</i>            | (Optional) |
| <i>originflag</i>         | (Optional) |
| <i>vpn</i>                | (Optional) |
| <i>hold_down</i>          | (Optional) |
| <i>outlabel</i>           | (Optional) |
| <i>flappenalty</i>        | (Optional) |
| <i>dampenedtime</i>       | (Optional) |
| <i>flaps</i>              | (Optional) |
| <i>flaptime</i>           | (Optional) |
| <i>flapflags</i>          | (Optional) |
| <i>flapindex</i>          | (Optional) |
| <i>flaphalflife</i>       | (Optional) |
| <i>flapreuse</i>          | (Optional) |
| <i>flapsuppress</i>       | (Optional) |
| <i>flapmax</i>            | (Optional) |
| <i>con_type</i>           | (Optional) |
| <i>con_len</i>            | (Optional) |
| <i>con_rd</i>             | (Optional) |
| <i>con_ip</i>             | (Optional) |
| <i>mdt_grp_addr</i>       | (Optional) |
| <i>evpn-esi</i>           | (Optional) |

|                            |            |
|----------------------------|------------|
| <i>link-state-attr</i>     | (Optional) |
| <i>link-state-attr-len</i> | (Optional) |
| TABLE_community            | (Optional) |
| <i>community</i>           | (Optional) |
| TABLE_extcommunity         | (Optional) |
| <i>extcommunity</i>        | (Optional) |
| <i>originatorid</i>        | (Optional) |
| TABLE_clusterlist          | (Optional) |
| <i>clusterlist</i>         | (Optional) |
| <i>remotenh</i>            | (Optional) |
| <i>remotenh_encap</i>      | (Optional) |
| <i>remotenh_vnid</i>       | (Optional) |
| <i>remotenh_mac</i>        | (Optional) |
| <i>pmsi</i>                | (Optional) |
| <i>psid_len</i>            | (Optional) |
| <i>psid_lindx_len</i>      | (Optional) |
| <i>psid_lindx_flag</i>     | (Optional) |
| <i>psid_lindx</i>          | (Optional) |
| <i>psid_v6sid_len</i>      | (Optional) |
| <i>psid_origsrgb_len</i>   | (Optional) |
| <i>psid_origsrgb_flag</i>  | (Optional) |
| <i>psid_origsrgb_base</i>  | (Optional) |
| <i>psid_origsrgb_end</i>   | (Optional) |

### Command Mode

- /exec

# show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { { { ipv4 { unicast
| multicast } | vpnv4 unicast | ipv4 mdt | link-state | l2vpn vpls | l2vpn evpn | ipv4 mvpn } nexthop-database
[ <ipnexthop> ] } | { { ipv6 { unicast | multicast } | vpnv6 unicast | ipv6 mvpn } nexthop-database [
<ipv6nexthop> ] } | { all nexthop-database } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_nhvrif <nhvrf-name-out> TABLE_nhafi <nhafi>
TABLE_nhsafi <nhsafi> <af-name> <nhcriticaldelay> <nhnoncriticaldelay> [ { TABLE_nexthop {
<ipnexthop-out> | <ipv6nexthop-out> } <refcount> <igpmetric> <multipath> <igptype> <igppref> [ {
TABLE_attachedhops { <attachedhop> | <ipv6attachedhop> } <interface> [ { TABLE_labels <index> <label>
} ] } ] <attached> <local> <reachable> <labeled> <filtered> <suppressed> <resolvetime> { <ribroute> |
<ipv6ribroute> } { <pendingupdate> | <pendingtime> } <nextadvertise> <rnhepoch> [ <pendingrnhepoch>
] } ] ] ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                         |
| bgp                   | Display BGP status and configuration                    |
| vrf                   | (Optional) Virtual Router Context                       |
| <i>vrf-name</i>       | (Optional) VRF name                                     |
| <i>vrf-known-name</i> | (Optional) Known VRF name                               |
| link-state            | Display BGP information for link-state address family   |
| l2vpn                 | Display BGP information for L2VPN address family        |
| vpls                  | Display BGP information for L2VPN VPLS address family   |
| nexthop-database      | Display nexthop database                                |
| ipv4                  | Display BGP information for IPv4 address family         |
| ipv6                  | Display BGP information for IPv6 address family         |
| vpnv4                 | Display BGP information for VPNv4 address family        |
| vpnv6                 | Display BGP information for VPNv6 address family        |
| mdt                   | Display BGP information for multicast distribution tree |
| mvpn                  | Display BGP information for MVPN address family         |
| evpn                  | Display BGP information for L2VPN EVPN address family   |
| unicast               | Display BGP information for unicast address family      |
| multicast             | Display BGP information for multicast address family    |
| all                   | Display BGP information for all address families        |

|                            |                            |
|----------------------------|----------------------------|
| <i>ipnexthop</i>           | (Optional) Nexthop address |
| <i>__readonly__</i>        | (Optional)                 |
| TABLE_ <i>nhvrf</i>        | (Optional)                 |
| <i>nhvrf-name-out</i>      | (Optional)                 |
| TABLE_ <i>nhafi</i>        | (Optional)                 |
| <i>nhafi</i>               | (Optional)                 |
| TABLE_ <i>nhsafi</i>       | (Optional)                 |
| <i>nhsafi</i>              | (Optional)                 |
| <i>af-name</i>             | (Optional)                 |
| <i>nhcriticaldelay</i>     | (Optional)                 |
| <i>nhnoncriticaldelay</i>  | (Optional)                 |
| TABLE_ <i>nexthop</i>      | (Optional)                 |
| <i>ipnexthop-out</i>       | (Optional)                 |
| <i>refcount</i>            | (Optional)                 |
| <i>igpmetric</i>           | (Optional)                 |
| <i>multipath</i>           | (Optional)                 |
| <i>igptype</i>             | (Optional)                 |
| <i>igppref</i>             | (Optional)                 |
| TABLE_ <i>attachedhops</i> | (Optional)                 |
| <i>attachedhop</i>         | (Optional)                 |
| <i>interface</i>           | (Optional)                 |
| TABLE_ <i>labels</i>       | (Optional)                 |
| <i>index</i>               | (Optional)                 |
| <i>label</i>               | (Optional)                 |
| <i>attached</i>            | (Optional)                 |
| <i>local</i>               | (Optional)                 |
| <i>reachable</i>           | (Optional)                 |
| <i>labeled</i>             | (Optional)                 |
| <i>filtered</i>            | (Optional)                 |



|                         |            |
|-------------------------|------------|
| <i>suppressed</i>       | (Optional) |
| <i>resolvetime</i>      | (Optional) |
| <i>pendingupdate</i>    | (Optional) |
| <i>pendingtime</i>      | (Optional) |
| <i>ribroute</i>         | (Optional) |
| <i>nextadvertise</i>    | (Optional) |
| <i>rnheepoch</i>        | (Optional) |
| <i>pendingrnheepoch</i> | (Optional) |

**Command Mode**

- /exec

## show bgp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } flap-statistics [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] | ipv6 { unicast | multicast } flap-statistics
[ <ipv6-prefix> ] | all flap-statistics } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234
} ] [ __readonly__ TABLE_vrf <vrf-name-out> [ TABLE_afi <afi> TABLE_safi <safi> <af-name> [
TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [ <dampening> <historypaths> <dampenedpaths> ] [
TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <status> ] [ <pathtype> ] [ <peer> | <ipv6peer>
] [ <flapcount> ] [ <duration> ] [ <reuse> ] [ <penalty> ] [ <suppresslimit> ] [ <reuselimit> ] [ <best> ] ] ] ]
]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                      |
| bgp                   | Display BGP status and configuration                 |
| vrf                   | (Optional) Virtual Router Context                    |
| <i>vrf-name</i>       | (Optional) VRF name                                  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                            |
| flap-statistics       | Display route flap statistics                        |
| <i>ip-prefix</i>      | (Optional) Display flap statistics for one prefix    |
| <i>ip-addr</i>        | (Optional) Display flap statistics for one network   |
| <i>ip-mask</i>        | (Optional) Network mask                              |
| ipv4                  | Display BGP information for IPv4 address family      |
| ipv6                  | Display BGP information for IPv6 address family      |
| unicast               | Display BGP information for unicast address family   |
| multicast             | Display BGP information for multicast address family |
| all                   | Display BGP information for all address families     |
| __readonly__          | (Optional)   |
| TABLE_vrf             | (Optional)   |
| <i>vrf-name-out</i>   | (Optional)   |
| TABLE_afi             | (Optional)   |
| <i>afi</i>            | (Optional)   |
| TABLE_safi            | (Optional)   |
| <i>safi</i>           | (Optional)   |

|                      |            |
|----------------------|------------|
| <i>af-name</i>       | (Optional) |
| TABLE_rd             | (Optional) |
| <i>rd_val</i>        | (Optional) |
| <i>rd_vrf</i>        | (Optional) |
| <i>rd_vniid</i>      | (Optional) |
| <i>dampening</i>     | (Optional) |
| <i>historypaths</i>  | (Optional) |
| <i>dampenedpaths</i> | (Optional) |
| TABLE_prefix         | (Optional) |
| <i>ipprefix</i>      | (Optional) |
| <i>nonipprefix</i>   | (Optional) |
| <i>status</i>        | (Optional) |
| <i>best</i>          | (Optional) |
| <i>pathtype</i>      | (Optional) |
| <i>peer</i>          | (Optional) |
| <i>flapcount</i>     | (Optional) |
| <i>duration</i>      | (Optional) |
| <i>reuse</i>         | (Optional) |
| <i>penalty</i>       | (Optional) |
| <i>suppresslimit</i> | (Optional) |
| <i>reuselimit</i>    | (Optional) |

**Command Mode**

- /exec



|                           |  |
|---------------------------|--|
| <i>refresh_interval</i>   | (Optional) refresh delay for bmp server                  |
| <i>stats_interval</i>     | (Optional) frequency of stat updates                     |
| <i>initiation</i>         | (Optional) number of initiation messages                 |
| <i>termination</i>        | (Optional) number of termination messages                |
| <i>peer_up</i>            | (Optional) number of peer up messages                    |
| <i>peer_down</i>          | (Optional) number of peer down messages                  |
| <i>route_monitor</i>      | (Optional) number of route monitor messages              |
| <i>route_mirror</i>       | (Optional) number of route mirror messages               |
| <i>stats</i>              | (Optional) number of stats messages                      |
| <i>messages_dropped</i>   | (Optional) number of dropped messages                    |
| <i>monitored_peers</i>    | (Optional) number of monitored peers for the bmp server  |
| TABLE_peer                | (Optional) monitored peer for the bmp server             |
| <i>peer_addr</i>          | (Optional) ip address of the peer                        |
| <i>refresh_interval</i>   | (Optional) refresh delay for the peer                    |
| <i>peer_up</i>            | (Optional) number of peer up messages for the peer       |
| <i>peer_down</i>          | (Optional) number of peer down messages for the peer     |
| <i>route_monitor</i>      | (Optional) number of route monitor messages for the peer |
| <i>route_mirror</i>       | (Optional) number of route mirror messages for the peer  |
| <i>stats</i>              | (Optional) number of stats messages for the peer         |
| <i>messages_dropped</i>   | (Optional) number of dropped messages for the peer       |
| <i>prefixes_denied</i>    | (Optional) prefixes denied for the peer                  |
| <i>dup_pfx_advmnt</i>     | (Optional) dup pfx advmnt for the peer                   |
| <i>pfx_dup_wdr_count</i>  | (Optional) pfx dup wdr count for the peer                |
| <i>cluster_list_loops</i> | (Optional) cluster list loops for the peer               |
| <i>as_path_loops</i>      | (Optional) as path loops for the peer                    |
| <i>as_confed_loops</i>    | (Optional) as confed loops for the peer                  |
| <i>invalid_originator</i> | (Optional) invalid originator for the peer               |
| <i>adj_rib_in</i>         | (Optional) adj-rib-in for the peer                       |
| <i>loc-rib</i>            | (Optional) loc-rib for the peer                          |

**Command Mode**

- /exec

## show bgp community

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } community {
<regexp-str> | { <comm-id> | <wellknown-id> } + [ exact-match ] } [ vrf { <vrf-name> | <vrf-known-name>
| ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi>
TABLE_safi <safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [
<rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion> <totalpaths>
<bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [ <table-map-filtered>
] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path
<pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop>
} } { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [ <metric> ] [ <localpref>
] } } } | [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> ] [ <importsourc> [ <originalimportsourc> ]
] [ <importdestscout> ] [ TABLE_importdests <importdest> ] [ <existpath> ] [ <aspath> <source> ] {
<ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin>
[ <metric> ] <localpref> <weight> [ <aggregator> <aggregators> <atomicaggregate> ] [ <inlabel> ] [
<originflag> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity <extcommunity> } ] [
<originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime>
<flapflags> <flapindex> <flaphalf-life> <flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len>
<con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len>
<psid_v6sid> ] [ <psid_origsrgrb_len> <psid_origsrgrb_flag> <psid_origsrgrb_base> <psid_origsrgrb_end> ] ]
[ <remotenh> <remotenh_encap> <remotenh_vniid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [
<link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> ] } } [ TABLE_advertisedto <advertisedto> ] [
TABLE_scheduledto <scheduledto> ] ] ] ]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                              |
| bgp                       | Display BGP status and configuration                         |
| vrf                       | (Optional) Virtual Router Context                            |
| <i>vrf-name</i>           | (Optional) VRF name  |
| <i>vrf-known-name</i>     | (Optional) Known VRF name                                    |
| rd                        | (Optional) Display information for a route distinguisher     |
| <i>ext-comm-rd-aa4nn2</i> | (Optional) VPN route distinguisher in aa4:nn or ip:nn format |
| <i>ext-comm-rd-aa2nn4</i> | (Optional) VPN route distinguisher in aa:nn format           |
| ipv4                      | Display BGP information for IPv4 address family              |
| ipv6                      | Display BGP information for IPv6 address family              |

|                      |  |
|----------------------|--|
| vpn4                 | Display BGP information for VPNv4 address family           |
| vpn6                 | Display BGP information for VPNv6 address family           |
| unicast              | Display BGP information for unicast address family         |
| multicast            | Display BGP information for multicast address family       |
| mdt                  | Display BGP information for multicast distribution tree    |
| link-state           | Display BGP information for link-state address family      |
| l2vpn                | Display BGP information for L2VPN address family           |
| vpls                 | Display BGP information for L2VPN VPLS address family      |
| labeled-unicast      | Display BGP information for labeled-unicast address family |
| mvpn                 | Display BGP information for MVPN address family            |
| evpn                 | Display BGP information for L2VPN EVPN address family      |
| all                  | Display BGP information for all address families           |
| community            | Display routes matching the BGP communities                |
| <i>regexp-str</i>    | Regular expression to match the communities                |
| <i>comm-id</i>       | BGP community value  |
| <i>wellknown-id</i>  | BGP wellknown community                                    |
| exact-match          | (Optional) Exact match of the communities                  |
| __readonly__         | (Optional)   |
| TABLE_vrf            | (Optional)   |
| <i>vrf-name-out</i>  | (Optional)   |
| TABLE_afi            | (Optional)   |
| <i>afi</i>           | (Optional)   |
| TABLE_safi           | (Optional)   |
| <i>safi</i>          | (Optional)   |
| <i>af-name</i>       | (Optional)   |
| <i>table-version</i> | (Optional)   |
| <i>router-id</i>     | (Optional)   |
| TABLE_rd             | (Optional)   |
| <i>rd_val</i>        | (Optional)   |



|                           |            |
|---------------------------|------------|
| <i>rd_vrf</i>             | (Optional) |
| <i>rd_vniid</i>           | (Optional) |
| TABLE_prefix              | (Optional) |
| <i>ipprefix</i>           | (Optional) |
| <i>nonipprefix</i>        | (Optional) |
| <i>totalpaths</i>         | (Optional) |
| <i>bestpathnr</i>         | (Optional) |
| <i>mpath</i>              | (Optional) |
| TABLE_advertisedto        | (Optional) |
| <i>advertisedto</i>       | (Optional) |
| TABLE_scheduledto         | (Optional) |
| <i>scheduledto</i>        | (Optional) |
| <i>prefixversion</i>      | (Optional) |
| <i>on-newlist</i>         | (Optional) |
| <i>on-xmitlist</i>        | (Optional) |
| <i>suppressed</i>         | (Optional) |
| <i>needsresync</i>        | (Optional) |
| <i>locked</i>             | (Optional) |
| <i>table-map-filtered</i> | (Optional) |
| <i>export-on-newlist</i>  | (Optional) |
| <i>export-on-xmitlist</i> | (Optional) |
| <i>locallabel</i>         | (Optional) |
| <i>labelhldwstr</i>       | (Optional) |
| TABLE_path                | (Optional) |
| <i>pathnr</i>             | (Optional) |
| <i>best</i>               | (Optional) |
| <i>status</i>             | (Optional) |
| <i>type</i>               | (Optional) |
| <i>statuscode</i>         | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>bestcode</i>             | (Optional) |
| <i>typecode</i>             | (Optional) |
| <i>ipnexthop</i>            | (Optional) |
| <i>neighbor</i>             | (Optional) |
| <i>neighborid</i>           | (Optional) |
| <i>metric</i>               | (Optional) |
| <i>localpref</i>            | (Optional) |
| <i>weight</i>               | (Optional) |
| <i>importsource</i>         | (Optional) |
| <i>originalimportsource</i> | (Optional) |
| <i>importdestscount</i>     | (Optional) |
| TABLE_importdests           | (Optional) |
| <i>importdest</i>           | (Optional) |
| <i>existpath</i>            | (Optional) |
| <i>aspath</i>               | (Optional) |
| <i>origin</i>               | (Optional) |
| <i>source</i>               | (Optional) |
| <i>policyincomplete</i>     | (Optional) |
| <i>pathvalid</i>            | (Optional) |
| <i>pathbest</i>             | (Optional) |
| <i>pathdeleted</i>          | (Optional) |
| <i>pathstaled</i>           | (Optional) |
| <i>pathhistory</i>          | (Optional) |
| <i>pathmultipath</i>        | (Optional) |
| <i>pathovermaxaslimit</i>   | (Optional) |
| <i>pathnolabeledrn</i>      | (Optional) |
| <i>nexthopmetric</i>        | (Optional) |
| <i>aggregator</i>           | (Optional) |
| <i>aggregatoras</i>         | (Optional) |

|                            |            |
|----------------------------|------------|
| <i>atomicaggregate</i>     | (Optional) |
| <i>inlabel</i>             | (Optional) |
| <i>originflag</i>          | (Optional) |
| <i>vpn</i>                 | (Optional) |
| <i>hold_down</i>           | (Optional) |
| <i>outlabel</i>            | (Optional) |
| <i>flappenalty</i>         | (Optional) |
| <i>dampenedtime</i>        | (Optional) |
| <i>flaps</i>               | (Optional) |
| <i>flaptime</i>            | (Optional) |
| <i>flapflags</i>           | (Optional) |
| <i>flapindex</i>           | (Optional) |
| <i>flaphalflife</i>        | (Optional) |
| <i>flapreuse</i>           | (Optional) |
| <i>flapsuppress</i>        | (Optional) |
| <i>flapmax</i>             | (Optional) |
| <i>con_type</i>            | (Optional) |
| <i>con_len</i>             | (Optional) |
| <i>con_rd</i>              | (Optional) |
| <i>con_ip</i>              | (Optional) |
| <i>mdt_grp_addr</i>        | (Optional) |
| <i>evpn-esi</i>            | (Optional) |
| <i>link-state-attr</i>     | (Optional) |
| <i>link-state-attr-len</i> | (Optional) |
| TABLE_community            | (Optional) |
| <i>community</i>           | (Optional) |
| TABLE_extcommunity         | (Optional) |
| <i>extcommunity</i>        | (Optional) |
| <i>originatorid</i>        | (Optional) |

|                           |            |
|---------------------------|------------|
| TABLE_clusterlist         | (Optional) |
| <i>clusterlist</i>        | (Optional) |
| <i>remotenh</i>           | (Optional) |
| <i>remotenh_encap</i>     | (Optional) |
| <i>remotenh_vnid</i>      | (Optional) |
| <i>remotenh_mac</i>       | (Optional) |
| <i>psid</i>               | (Optional) |
| <i>psid_len</i>           | (Optional) |
| <i>psid_lindx_len</i>     | (Optional) |
| <i>psid_lindx_flag</i>    | (Optional) |
| <i>psid_lindx</i>         | (Optional) |
| <i>psid_v6sid_len</i>     | (Optional) |
| <i>psid_origsrgb_len</i>  | (Optional) |
| <i>psid_origsrgb_flag</i> | (Optional) |
| <i>psid_origsrgb_base</i> | (Optional) |
| <i>psid_origsrgb_end</i>  | (Optional) |

**Command Mode**

- /exec

## show bgp convergence

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] convergence [ detail
] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ <starttime>
<configdonetime> <juststarted> [ <initwaittime> ] [ <ldpconverged> ] [ <ulibconvergencesent> ] [ TABLE_vrf
<vrf-name-out> <bestpathtimeout> <configuredtimeout> <updatedelay> [ <firstpeerup> ] <timerrunning> [
<timerexpires> ] [ TABLE_afi <afi> TABLE_safi <safi> <af-name> <total_configured_peers>
<total_capable_peers> <firstbestpathsignalled> [ <firstbestpathsignalledtime> ] <firstbestpathdone> [
<firstbestpathdonetime> [ <lastbestpathsignalledtime> <lastbestpathdonetime> ] ] [ <riblicconvergencesent>
] [ <importtimerrunning> ] [ <importtimerexpires> ] [ { TABLE_rcvdpeers [ <peer> ] [ <ipv6peer> ] [
<signalledtimepeer> ] } ] [ { TABLE_notrcvdpeers [ <notpeer> ] [ <notipv6peer> ] [ <nokeepalive> ] [
<notsignalledtime> ] } ] ] ] ] ]
```

### Syntax Description

|                               |   |
|-------------------------------|---|
| show                          | Show running system information                           |
| bgp                           | Display BGP status and configuration                      |
| vrf                           | (Optional) Virtual Router Context                         |
| <i>vrf-name</i>               | (Optional) VRF name                                       |
| <i>vrf-known-name</i>         | (Optional) Known VRF name                                 |
| convergence                   | Display information about convergence                     |
| detail                        | (Optional) Display detailed information about convergence |
| __readonly__                  | (Optional)  |
| <i>starttime</i>              | (Optional)  |
| <i>configdonetime</i>         | (Optional)  |
| <i>juststarted</i>            | (Optional)  |
| <i>initwaittime</i>           | (Optional)  |
| <i>ldpconverged</i>           | (Optional)  |
| <i>ulibconvergencesent</i>    | (Optional)  |
| TABLE_vrf                     | (Optional)  |
| <i>total_configured_peers</i> | (Optional)  |
| <i>total_capable_peers</i>    | (Optional)  |
| <i>vrf-name-out</i>           | (Optional)  |
| <i>bestpathtimeout</i>        | (Optional)  |
| <i>configuredtimeout</i>      | (Optional)  |

|                                   |            |
|-----------------------------------|------------|
| <i>updatedelay</i>                | (Optional) |
| <i>firstpeerup</i>                | (Optional) |
| <i>timerrunning</i>               | (Optional) |
| <i>timerexpires</i>               | (Optional) |
| TABLE_afi                         | (Optional) |
| <i>afi</i>                        | (Optional) |
| TABLE_safi                        | (Optional) |
| <i>safi</i>                       | (Optional) |
| <i>af-name</i>                    | (Optional) |
| <i>firstbestpathsignalled</i>     | (Optional) |
| <i>firstbestpathsignalledtime</i> | (Optional) |
| <i>firstbestpathdone</i>          | (Optional) |
| <i>firstbestpathdonetime</i>      | (Optional) |
| <i>lastbestpathsignalledtime</i>  | (Optional) |
| <i>lastbestpathdonetime</i>       | (Optional) |
| <i>ribbibconvergencesent</i>      | (Optional) |
| <i>importtimerrunning</i>         | (Optional) |
| <i>importtimerexpires</i>         | (Optional) |
| TABLE_rcvdpeers                   | (Optional) |
| <i>peer</i>                       | (Optional) |
| <i>signalledtimepeer</i>          | (Optional) |
| TABLE_notrcvdpeers                | (Optional) |
| <i>notpeer</i>                    | (Optional) |
| <i>nokeepalive</i>                | (Optional) |
| <i>notsignalledtime</i>           | (Optional) |

**Command Mode**

- /exec

## show bgp dampening dampened

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } dampening {
dampened-paths [ regexp <regexp-str> ] | history-paths [ regexp <regexp-str> ] } [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out>
TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [
<rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion>
<totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [
<table-map-filtered> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [
<mpath> ] ] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> {
<ipnexthop> | <ipv6nexthop> } } { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath>
<origin> [ <metric> ] [ <localpref> ] } } } | { [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted>
<pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabelednrh> ] [ <importsource>
[ <originalimportsource> ] ] [ <importdestscout> ] [ TABLE_importdests <importdest> ] [ <existpath> ] [
<aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> }
<neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator> <aggregatoras> <atomicaggregate>
] [ <inlabel> ] [ <originflag> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity
<extcommunity> } ] [ <originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime>
<flaps> <flaptime> <flapflags> <flapindex> <flaphalflife> <flapreuse> <flapsuppress> <flapmax> ] [
<con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx>
] [ <psid_v6sid_len> <psid_v6sid> ] [ <psid_origsrgrb_len> <psid_origsrgrb_flag> <psid_origsrgrb_base>
<psid_origsrgrb_end> ] ] [ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmssi> ]
[ <evpn-esi> ] [ <link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> ] } } } [ TABLE_advertisedto
<advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ] ]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                              |
| bgp                       | Display BGP status and configuration                         |
| vrf                       | (Optional) Virtual Router Context                            |
| <i>vrf-name</i>           | (Optional) VRF name  |
| <i>vrf-known-name</i>     | (Optional) Known VRF name                                    |
| dampened-paths            | Display all dampened paths                                   |
| history-paths             | Display all history paths                                    |
| dampening                 | Display dampening info                                       |
| rd                        | (Optional) Display information for a route distinguisher     |
| <i>ext-comm-rd-aa4nn2</i> | (Optional) VPN route distinguisher in aa4:nn or ip:nn format |

|                           |   |
|---------------------------|---|
| <i>ext-comm-rd-aa2nn4</i> | (Optional) VPN route distinguisher in aa:nn format                |
| ipv4                      | Display BGP information for IPv4 address family                   |
| ipv6                      | Display BGP information for IPv6 address family                   |
| vpn4                      | Display BGP information for VPNv4 address family                  |
| vpn6                      | Display BGP information for VPNv6 address family                  |
| unicast                   | Display BGP information for unicast address family                |
| multicast                 | Display BGP information for multicast address family              |
| mdt                       | Display BGP information for multicast distribution tree           |
| labeled-unicast           | Display BGP information for labeled-unicast address family        |
| link-state                | Display BGP information for link-state address family             |
| l2vpn                     | Display BGP information for L2VPN address family                  |
| vpls                      | Display BGP information for L2VPN VPLS address family             |
| mvpn                      | Display BGP information for MVPN address family                   |
| evpn                      | Display BGP information for L2VPN EVPN address family             |
| all                       | Display BGP information for all address families                  |
| regexp                    | (Optional) Display routes matching the AS path regular expression |
| <i>regexp-str</i>         | (Optional) Regular expression to match the AS paths               |
| <i>__readonly__</i>       | (Optional)  |
| TABLE_vrf                 | (Optional)  |
| <i>vrf-name-out</i>       | (Optional)  |
| TABLE_afi                 | (Optional)  |
| <i>afi</i>                | (Optional)  |
| TABLE_safi                | (Optional)  |
| <i>safi</i>               | (Optional)  |
| <i>af-name</i>            | (Optional)  |
| <i>table-version</i>      | (Optional)  |
| <i>router-id</i>          | (Optional)  |
| TABLE_rd                  | (Optional)  |
| <i>rd_val</i>             | (Optional)  |



|                           |            |
|---------------------------|------------|
| <i>rd_vrf</i>             | (Optional) |
| <i>rd_vniid</i>           | (Optional) |
| TABLE_prefix              | (Optional) |
| <i>ipprefix</i>           | (Optional) |
| <i>nonipprefix</i>        | (Optional) |
| <i>totalpaths</i>         | (Optional) |
| <i>bestpathnr</i>         | (Optional) |
| <i>mpath</i>              | (Optional) |
| TABLE_advertisedto        | (Optional) |
| <i>advertisedto</i>       | (Optional) |
| TABLE_scheduledto         | (Optional) |
| <i>scheduledto</i>        | (Optional) |
| <i>prefixversion</i>      | (Optional) |
| <i>on-newlist</i>         | (Optional) |
| <i>on-xmitlist</i>        | (Optional) |
| <i>suppressed</i>         | (Optional) |
| <i>needsresync</i>        | (Optional) |
| <i>locked</i>             | (Optional) |
| <i>table-map-filtered</i> | (Optional) |
| <i>export-on-newlist</i>  | (Optional) |
| <i>export-on-xmitlist</i> | (Optional) |
| <i>locallabel</i>         | (Optional) |
| <i>labelhldwstr</i>       | (Optional) |
| TABLE_path                | (Optional) |
| <i>pathnr</i>             | (Optional) |
| <i>best</i>               | (Optional) |
| <i>status</i>             | (Optional) |
| <i>type</i>               | (Optional) |
| <i>statuscode</i>         | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>bestcode</i>             | (Optional) |
| <i>typecode</i>             | (Optional) |
| <i>ipnexthop</i>            | (Optional) |
| <i>neighbor</i>             | (Optional) |
| <i>neighborid</i>           | (Optional) |
| <i>metric</i>               | (Optional) |
| <i>localpref</i>            | (Optional) |
| <i>weight</i>               | (Optional) |
| <i>importsource</i>         | (Optional) |
| <i>originalimportsource</i> | (Optional) |
| <i>importdestscount</i>     | (Optional) |
| TABLE_importdests           | (Optional) |
| <i>importdest</i>           | (Optional) |
| <i>existpath</i>            | (Optional) |
| <i>aspath</i>               | (Optional) |
| <i>origin</i>               | (Optional) |
| <i>source</i>               | (Optional) |
| <i>policyincomplete</i>     | (Optional) |
| <i>pathvalid</i>            | (Optional) |
| <i>pathbest</i>             | (Optional) |
| <i>pathdeleted</i>          | (Optional) |
| <i>pathstaled</i>           | (Optional) |
| <i>pathhistory</i>          | (Optional) |
| <i>pathmultipath</i>        | (Optional) |
| <i>pathovermaxaslimit</i>   | (Optional) |
| <i>pathnolabeledrn</i>      | (Optional) |
| <i>nexthopmetric</i>        | (Optional) |
| <i>aggregator</i>           | (Optional) |
| <i>aggregatoras</i>         | (Optional) |

|                            |            |
|----------------------------|------------|
| <i>atomicaggregate</i>     | (Optional) |
| <i>inlabel</i>             | (Optional) |
| <i>originflag</i>          | (Optional) |
| <i>vpn</i>                 | (Optional) |
| <i>hold_down</i>           | (Optional) |
| <i>outlabel</i>            | (Optional) |
| <i>flappenalty</i>         | (Optional) |
| <i>dampenedtime</i>        | (Optional) |
| <i>flaps</i>               | (Optional) |
| <i>flaptime</i>            | (Optional) |
| <i>flapflags</i>           | (Optional) |
| <i>flapindex</i>           | (Optional) |
| <i>flaphalflife</i>        | (Optional) |
| <i>flapreuse</i>           | (Optional) |
| <i>flapsuppress</i>        | (Optional) |
| <i>flapmax</i>             | (Optional) |
| <i>con_type</i>            | (Optional) |
| <i>con_len</i>             | (Optional) |
| <i>con_rd</i>              | (Optional) |
| <i>con_ip</i>              | (Optional) |
| <i>mdt_grp_addr</i>        | (Optional) |
| <i>evpn-esi</i>            | (Optional) |
| <i>link-state-attr</i>     | (Optional) |
| <i>link-state-attr-len</i> | (Optional) |
| TABLE_community            | (Optional) |
| <i>community</i>           | (Optional) |
| TABLE_extcommunity         | (Optional) |
| <i>extcommunity</i>        | (Optional) |
| <i>originatorid</i>        | (Optional) |

|                           |            |
|---------------------------|------------|
| TABLE_clusterlist         | (Optional) |
| <i>clusterlist</i>        | (Optional) |
| <i>remotenh</i>           | (Optional) |
| <i>remotenh_encap</i>     | (Optional) |
| <i>remotenh_vnid</i>      | (Optional) |
| <i>remotenh_mac</i>       | (Optional) |
| <i>psmi</i>               | (Optional) |
| <i>psid_len</i>           | (Optional) |
| <i>psid_lindx_len</i>     | (Optional) |
| <i>psid_lindx_flag</i>    | (Optional) |
| <i>psid_lindx</i>         | (Optional) |
| <i>psid_v6sid_len</i>     | (Optional) |
| <i>psid_origsrgb_len</i>  | (Optional) |
| <i>psid_origsrgb_flag</i> | (Optional) |
| <i>psid_origsrgb_base</i> | (Optional) |
| <i>psid_origsrgb_end</i>  | (Optional) |

**Command Mode**

- /exec

# show bgp dampening flap-statistics

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } dampening
flap-statistics [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf <vrf-name-out> [ TABLE_afi <afi> TABLE_safi <safi> <af-name> [ TABLE_rd [ <rd_val> [
<rd_vrf> ] [ <rd_vniid> ] ] [ <dampening> <historypaths> <dampenedpaths> ] [ TABLE_prefix { <ipprefix>
| <ipv6prefix> | <nonipprefix> } ] [ <status> ] [ <pathtype> ] [ <peer> | <ipv6peer> ] [ <flapcount> ] [ <duration>
] [ <reuse> ] [ <penalty> ] [ <suppresslimit> ] [ <reuselimit> ] [ <best> ] ] ] ]
```

## Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information                              |
| bgp                | Display BGP status and configuration                         |
| vrf                | (Optional) Virtual Router Context                            |
| vrf-name           | (Optional) VRF name  |
| vrf-known-name     | (Optional) Known VRF name                                    |
| dampening          | Display dampening info                                       |
| flap-statistics    | Display flap statistics for routes                           |
| rd                 | (Optional) Display information for a route distinguisher     |
| ext-comm-rd-aa4nn2 | (Optional) VPN route distinguisher in aa4:nn or ip:nn format |
| ext-comm-rd-aa2nn4 | (Optional) VPN route distinguisher in aa:nn format           |
| ipv4               | Display BGP information for IPv4 address family              |
| ipv6               | Display BGP information for IPv6 address family              |
| vpnv4              | Display BGP information for VPNv4 address family             |
| vpnv6              | Display BGP information for VPNv6 address family             |
| unicast            | Display BGP information for unicast address family           |
| multicast          | Display BGP information for multicast address family         |
| mdt                | Display BGP information for multicast distribution tree      |
| labeled-unicast    | Display BGP information for labeled-unicast address family   |
| link-state         | Display BGP information for link-state address family        |

## show bgp dampening flap-statistics

|                      |   |
|----------------------|---|
| l2vpn                | Display BGP information for L2VPN address family      |
| vpls                 | Display BGP information for L2VPN VPLS address family |
| mvpn                 | Display BGP information for MVPN address family       |
| evpn                 | Display BGP information for L2VPN EVPN address family |
| all                  | Display BGP information for all address families      |
| __readonly__         | (Optional)  |
| TABLE_vrf            | (Optional)  |
| <i>vrf-name-out</i>  | (Optional)  |
| TABLE_afi            | (Optional)  |
| <i>afi</i>           | (Optional)  |
| TABLE_safi           | (Optional)  |
| <i>safi</i>          | (Optional)  |
| <i>af-name</i>       | (Optional)  |
| TABLE_rd             | (Optional)  |
| <i>rd_val</i>        | (Optional)  |
| <i>rd_vrf</i>        | (Optional)  |
| <i>rd_vniid</i>      | (Optional)  |
| <i>dampening</i>     | (Optional)  |
| <i>historypaths</i>  | (Optional)  |
| <i>dampenedpaths</i> | (Optional)  |
| TABLE_prefix         | (Optional)  |
| <i>ipprefix</i>      | (Optional)  |
| <i>nonipprefix</i>   | (Optional)  |
| <i>status</i>        | (Optional)  |
| <i>best</i>          | (Optional)  |
| <i>pathtype</i>      | (Optional)  |
| <i>peer</i>          | (Optional)  |
| <i>flapcount</i>     | (Optional)  |
| <i>duration</i>      | (Optional)  |

|                      |            |
|----------------------|------------|
| <i>reuse</i>         | (Optional) |
| <i>penalty</i>       | (Optional) |
| <i>suppresslimit</i> | (Optional) |
| <i>reuselimit</i>    | (Optional) |

**Command Mode**

- /exec

## show bgp dampening parameters

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } dampening
parameters [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ TABLE_rd [ <rd_val> ] [
<rd_vrf> ] [ <rd_vniid> ] [ <rpmname> ] [ TABLE_rpm <rpmindex> <rpmdamphalflife> <rpmdampsuppress>
<rpm dampreuse> <rpm dampsuppress> <rpm dampmaxpenalty> ] [ <dampconfigured> <damphalflife>
<dampsuppress> <dampreuse> <dampsuppress> <dampmaxpenalty> ] ] ]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                              |
| bgp                       | Display BGP status and configuration                         |
| vrf                       | (Optional) Virtual Router Context                            |
| <i>vrf-name</i>           | (Optional) VRF name  |
| <i>vrf-known-name</i>     | (Optional) Known VRF name                                    |
| dampening                 | Display dampening info                                       |
| parameters                | Display dampening parameters                                 |
| rd                        | (Optional) Display information for a route distinguisher     |
| <i>ext-comm-rd-aa4nn2</i> | (Optional) VPN route distinguisher in aa4:nn or ip:nn format |
| <i>ext-comm-rd-aa2nn4</i> | (Optional) VPN route distinguisher in aa:nn format           |
| ipv4                      | Display BGP information for IPv4 address family              |
| ipv6                      | Display BGP information for IPv6 address family              |
| vpnv4                     | Display BGP information for VPNv4 address family             |
| vpnv6                     | Display BGP information for VPNv6 address family             |
| unicast                   | Display BGP information for unicast address family           |
| multicast                 | Display BGP information for multicast address family         |
| mdt                       | Display BGP information for multicast distribution tree      |
| labeled-unicast           | Display BGP information for labeled-unicast address family   |
| link-state                | Display BGP information for link-state address family        |



|                            |   |
|----------------------------|---|
| l2vpn                      | Display BGP information for L2VPN address family      |
| vpls                       | Display BGP information for L2VPN VPLS address family |
| mvpn                       | Display BGP information for MVPN address family       |
| evpn                       | Display BGP information for L2VPN EVPN address family |
| all                        | Display BGP information for all address families      |
| __readonly__               | (Optional)  |
| TABLE_vrf                  | (Optional)  |
| <i>vrf-name-out</i>        | (Optional)  |
| TABLE_afi                  | (Optional)  |
| <i>afi</i>                 | (Optional)  |
| TABLE_safi                 | (Optional)  |
| <i>safi</i>                | (Optional)  |
| <i>af-name</i>             | (Optional)  |
| TABLE_rd                   | (Optional)  |
| <i>rd_val</i>              | (Optional)  |
| <i>rd_vrf</i>              | (Optional) VRF RD                                     |
| <i>rd_vniid</i>            | (Optional)  |
| TABLE_rpm                  | (Optional)  |
| <i>rpmname</i>             | (Optional)  |
| <i>rpmindex</i>            | (Optional)  |
| <i>rpmdamphalflife</i>     | (Optional)  |
| <i>rpmdampsuppress</i>     | (Optional)  |
| <i>rpmdampreuse</i>        | (Optional)  |
| <i>rpmdampsuppresstime</i> | (Optional)  |
| <i>rpmdampmaxpenalty</i>   | (Optional)  |
| <i>dampconfigured</i>      | (Optional)  |
| <i>damphalflife</i>        | (Optional)  |
| <i>dampsuppress</i>        | (Optional)  |
| <i>dampreuse</i>           | (Optional)  |

## show bgp dampening parameters

|                         |            |
|-------------------------|------------|
| <i>dampsuppresstime</i> | (Optional) |
| <i>dampmaxpenalty</i>   | (Optional) |

**Command Mode**

- /exec

## show bgp evi

```
show bgp evi [ <evi-id> ] [ __readonly__ [ TABLE_ctx <eid> <rd> <numlocalprefixes> <numtotalprefixes>
<created> <lastoperup> <lastoperdown> <enabled> [ <associatedvrf> ] [ TABLE_activeexportrts <exportrt>
] [ TABLE_activeimportrts <importrt> ] [ TABLE_evpnactiveexportrts <evpnexportrt> ] [
TABLE_evpnactiveimportrts <evpnimportrt> ] [ TABLE_mvnpactiveexportrts <mvpnexportrt> ] [
TABLE_mvnpactiveimportrts <mvpnimportrt> ] [ TABLE_activeexportrtsv6 <exportrtv6> ] [
TABLE_activeimportrtsv6 <importrtv6> ] [ TABLE_evpnactiveexportrtsv6 <evpnexportrtv6> ] [
TABLE_evpnactiveimportrtsv6 <evpnimportrtv6> ] [ TABLE_mvnpactiveexportrtsv6 <mvpnexportrtv6> ]
[ TABLE_mvnpactiveimportrtsv6 <mvpnimportrtv6> ] ] ]
```

### Syntax Description

|                                  |  |
|----------------------------------|--|
| show                             | Show running system information        |
| bgp                              | Display BGP status and configuration   |
| evi                              | Display information about EVI database |
| <i>evi-id</i>                    | (Optional) EVI Id                      |
| <i>__readonly__</i>              | (Optional)                             |
| <i>TABLE_ctx</i>                 | (Optional)                             |
| <i>eid</i>                       | (Optional)                             |
| <i>rd</i>                        | (Optional)                             |
| <i>numlocalprefixes</i>          | (Optional)                             |
| <i>numtotalprefixes</i>          | (Optional)                             |
| <i>created</i>                   | (Optional)                             |
| <i>lastoperup</i>                | (Optional)                             |
| <i>lastoperdown</i>              | (Optional)                             |
| <i>enabled</i>                   | (Optional)                             |
| <i>associatedvrf</i>             | (Optional)                             |
| <i>TABLE_activeexportrts</i>     | (Optional)                             |
| <i>TABLE_activeimportrts</i>     | (Optional)                             |
| <i>TABLE_evpnactiveexportrts</i> | (Optional)                             |
| <i>TABLE_evpnactiveimportrts</i> | (Optional)                             |
| <i>TABLE_mvnpactiveexportrts</i> | (Optional)                             |
| <i>TABLE_mvnpactiveimportrts</i> | (Optional)                             |

|                             |            |
|-----------------------------|------------|
| TABLE_activeexportrtsv6     | (Optional) |
| TABLE_activeimportrtsv6     | (Optional) |
| TABLE_evpnactiveexportrtsv6 | (Optional) |
| TABLE_evpnactiveimportrtsv6 | (Optional) |
| TABLE_mvpnactiveexportrtsv6 | (Optional) |
| TABLE_mvpnactiveimportrtsv6 | (Optional) |
| <i>importrt</i>             | (Optional) |
| <i>exportrt</i>             | (Optional) |
| <i>evpnimportrt</i>         | (Optional) |
| <i>evpnexportrt</i>         | (Optional) |
| <i>mvpnimportrt</i>         | (Optional) |
| <i>mvpnexportrt</i>         | (Optional) |
| <i>importrtv6</i>           | (Optional) |
| <i>exportrtv6</i>           | (Optional) |
| <i>evpnimportrtv6</i>       | (Optional) |
| <i>evpnexportrtv6</i>       | (Optional) |
| <i>mvpnimportrtv6</i>       | (Optional) |
| <i>mvpnexportrtv6</i>       | (Optional) |

**Command Mode**

- /exec

## show bgp extcommunity

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } extcommunity
{ <regex-str> | { { 4byteas-generic { transitive <ext-comm-gen-trans> | non-transitive
<ext-comm-gen-nontrans> } } + [ exact-match ] } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ _readonly_ TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi
<safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [
TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [
<on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [ <table-map-filtered> ] [
<export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path
<pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop>
} } { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [ <metric> ] [ <localpref>
] } } } | { [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> ] [ <importsource> [ <originalimportsource> ]
] [ <importdestscount> ] [ TABLE_importdests <importdest> ] [ <existpath> ] [ <aspath> <source> ] {
<ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin>
[ <metric> ] <localpref> <weight> [ <aggregator> <aggregators> <atomicaggregate> ] [ <inlabel> ] [
<originflag> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity <extcommunity> } ] [
<originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime>
<flapflags> <flapindex> <flaphalf-life> <flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len>
<con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len>
<psid_v6sid> ] [ <psid_origsrgrb_len> <psid_origsrgrb_flag> <psid_origsrgrb_base> <psid_origsrgrb_end> ] ]
[ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [
<link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [
TABLE_scheduledto <scheduledto> ] ] ] ]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                              |
| bgp                       | Display BGP status and configuration                         |
| vrf                       | (Optional) Virtual Router Context                            |
| <i>vrf-name</i>           | (Optional) VRF name  |
| <i>vrf-known-name</i>     | (Optional) Known VRF name                                    |
| rd                        | (Optional) Display information for a route distinguisher     |
| <i>ext-comm-rd-aa4nn2</i> | (Optional) VPN route distinguisher in aa4:nn or ip:nn format |
| <i>ext-comm-rd-aa2nn4</i> | (Optional) VPN route distinguisher in aa:nn format           |
| ipv4                      | Display BGP information for IPv4 address family              |

|                              |  |
|------------------------------|--|
| ipv6                         | Display BGP information for IPv6 address family            |
| vpnv4                        | Display BGP information for VPNv4 address family           |
| vpnv6                        | Display BGP information for VPNv6 address family           |
| unicast                      | Display BGP information for unicast address family         |
| multicast                    | Display BGP information for multicast address family       |
| mdt                          | Display BGP information for multicast distribution tree    |
| link-state                   | Display BGP information for link-state address family      |
| labeled-unicast              | Display BGP information for labeled-unicast address family |
| l2vpn                        | Display BGP information for L2VPN address family           |
| vpls                         | Display BGP information for L2VPN VPLS address family      |
| mvpn                         | Display BGP information for MVPN address family            |
| evpn                         | Display BGP information for L2VPN EVPN address family      |
| all                          | Display BGP information for all address families           |
| extcommunity                 | Display routes matching the BGP extcommunities             |
| 4byteas-generic              | Generic extended community                                 |
| <i>regex-str</i>             | Regular expression to match the extcommunities             |
| transitive                   | Transitive extcommunity                                    |
| non-transitive               | Non-Transitive extcommunity                                |
| <i>ext-comm-gen-trans</i>    | Extcommunity number aa4:nn format                          |
| <i>ext-comm-gen-nontrans</i> | Extcommunity number aa4:nn format                          |
| exact-match                  | (Optional) Exact match of the extcommunities               |
| <i>__readonly__</i>          | (Optional)   |
| TABLE_vrf                    | (Optional)   |
| <i>vrf-name-out</i>          | (Optional)   |
| TABLE_afi                    | (Optional)   |
| <i>afi</i>                   | (Optional)   |
| TABLE_safi                   | (Optional)   |
| <i>safi</i>                  | (Optional)   |
| <i>af-name</i>               | (Optional)   |

|                           |            |
|---------------------------|------------|
| <i>table-version</i>      | (Optional) |
| <i>router-id</i>          | (Optional) |
| TABLE_rd                  | (Optional) |
| <i>rd_val</i>             | (Optional) |
| <i>rd_vrf</i>             | (Optional) |
| <i>rd_vniid</i>           | (Optional) |
| TABLE_prefix              | (Optional) |
| <i>ipprefix</i>           | (Optional) |
| <i>nonipprefix</i>        | (Optional) |
| <i>totalpaths</i>         | (Optional) |
| <i>bestpathnr</i>         | (Optional) |
| <i>mpath</i>              | (Optional) |
| TABLE_advertisedto        | (Optional) |
| <i>advertisedto</i>       | (Optional) |
| TABLE_scheduledto         | (Optional) |
| <i>scheduledto</i>        | (Optional) |
| <i>prefixversion</i>      | (Optional) |
| <i>on-newlist</i>         | (Optional) |
| <i>on-xmitlist</i>        | (Optional) |
| <i>suppressed</i>         | (Optional) |
| <i>needsresync</i>        | (Optional) |
| <i>locked</i>             | (Optional) |
| <i>table-map-filtered</i> | (Optional) |
| <i>export-on-newlist</i>  | (Optional) |
| <i>export-on-xmitlist</i> | (Optional) |
| <i>locallabel</i>         | (Optional) |
| <i>labelhldwstr</i>       | (Optional) |
| TABLE_path                | (Optional) |
| <i>pathnr</i>             | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>best</i>                 | (Optional) |
| <i>status</i>               | (Optional) |
| <i>type</i>                 | (Optional) |
| <i>statuscode</i>           | (Optional) |
| <i>bestcode</i>             | (Optional) |
| <i>typecode</i>             | (Optional) |
| <i>ipnexthop</i>            | (Optional) |
| <i>neighbor</i>             | (Optional) |
| <i>neighborid</i>           | (Optional) |
| <i>metric</i>               | (Optional) |
| <i>localpref</i>            | (Optional) |
| <i>weight</i>               | (Optional) |
| <i>importsource</i>         | (Optional) |
| <i>originalimportsource</i> | (Optional) |
| <i>importdestscount</i>     | (Optional) |
| TABLE_importdests           | (Optional) |
| <i>importdest</i>           | (Optional) |
| <i>existpath</i>            | (Optional) |
| <i>aspath</i>               | (Optional) |
| <i>origin</i>               | (Optional) |
| <i>source</i>               | (Optional) |
| <i>policyincomplete</i>     | (Optional) |
| <i>pathvalid</i>            | (Optional) |
| <i>pathbest</i>             | (Optional) |
| <i>pathdeleted</i>          | (Optional) |
| <i>pathstaled</i>           | (Optional) |
| <i>pathhistory</i>          | (Optional) |
| <i>pathmultipath</i>        | (Optional) |
| <i>pathovermaxaslimit</i>   | (Optional) |



|                            |            |
|----------------------------|------------|
| <i>pathnolabeledrn</i>     | (Optional) |
| <i>nexthopmetric</i>       | (Optional) |
| <i>aggregator</i>          | (Optional) |
| <i>aggregatoras</i>        | (Optional) |
| <i>atomicaggregate</i>     | (Optional) |
| <i>inlabel</i>             | (Optional) |
| <i>originflag</i>          | (Optional) |
| <i>vpn</i>                 | (Optional) |
| <i>hold_down</i>           | (Optional) |
| <i>outlabel</i>            | (Optional) |
| <i>flappenalty</i>         | (Optional) |
| <i>dampenedtime</i>        | (Optional) |
| <i>flaps</i>               | (Optional) |
| <i>flaptime</i>            | (Optional) |
| <i>flapflags</i>           | (Optional) |
| <i>flapindex</i>           | (Optional) |
| <i>flaphalflife</i>        | (Optional) |
| <i>flapreuse</i>           | (Optional) |
| <i>flapsuppress</i>        | (Optional) |
| <i>flapmax</i>             | (Optional) |
| <i>con_type</i>            | (Optional) |
| <i>con_len</i>             | (Optional) |
| <i>con_rd</i>              | (Optional) |
| <i>con_ip</i>              | (Optional) |
| <i>mdt_grp_addr</i>        | (Optional) |
| <i>evpn-esi</i>            | (Optional) |
| <i>link-state-attr</i>     | (Optional) |
| <i>link-state-attr-len</i> | (Optional) |
| TABLE_community            | (Optional) |

|                           |            |
|---------------------------|------------|
| <i>community</i>          | (Optional) |
| TABLE_extcommunity        | (Optional) |
| <i>extcommunity</i>       | (Optional) |
| <i>originatorid</i>       | (Optional) |
| TABLE_clusterlist         | (Optional) |
| <i>clusterlist</i>        | (Optional) |
| <i>remotenh</i>           | (Optional) |
| <i>remotenh_encap</i>     | (Optional) |
| <i>remotenh_vnid</i>      | (Optional) |
| <i>remotenh_mac</i>       | (Optional) |
| <i>pmsi</i>               | (Optional) |
| <i>psid_len</i>           | (Optional) |
| <i>psid_lindx_len</i>     | (Optional) |
| <i>psid_lindx_flag</i>    | (Optional) |
| <i>psid_lindx</i>         | (Optional) |
| <i>psid_v6sid_len</i>     | (Optional) |
| <i>psid_origsrgb_len</i>  | (Optional) |
| <i>psid_origsrgb_flag</i> | (Optional) |
| <i>psid_origsrgb_base</i> | (Optional) |
| <i>psid_origsrgb_end</i>  | (Optional) |

**Command Mode**

- /exec

## show bgp l3vpn

```
show bgp l3vpn [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [
__readonly__ TABLE_vrf <vrf-name-out> [ <vrf-id> ] [ <vrf-rd> ] [ <vrf-state> ] [ <vrf-state-rsn> ] [
<vrf-pending-rd> ] [ { TABLE_af <af-id> [ <af-name> ] [ <af-table-id> ] [ <af-state> ] [ <af-state-rsn> ] [
<af-num-peers> ] [ <af-num-active-peers> ] [ <af-peer-routes> ] [ <af-peer-paths> ] [ <af-peer-networks> ]
[ <af-peer-aggregates> ] [ <af-export-rmap> ] [ <af-import-rmap> ] [ <af-retain-rt> ] [ TABLE_export_rt
<export-rt> ] [ TABLE_import_rt <import-rt> ] [ TABLE_evpn_export_rt <evpn-export-rt> ] [
TABLE_evpn_import_rt <evpn-import-rt> ] [ TABLE_mvpn_export_rt <mvpn-export-rt> ] [
TABLE_mvpn_import_rt <mvpn-import-rt> ] [ <af-label-mode> ] [ <af-aggregate-label> } } ] ]
```

### Syntax Description

|                       |                                      |
|-----------------------|--------------------------------------|
| show                  | Show running system information      |
| bgp                   | Display BGP status and configuration |
| l3vpn                 | BGP l3vpn information                |
| vrf                   | (Optional) Virtual Router Context    |
| detail                | (Optional) Detailed information      |
| <i>vrf-name</i>       | (Optional) VRF name                  |
| <i>vrf-known-name</i> | (Optional) Known VRF name            |
| <i>__readonly__</i>   | (Optional) Read Only                 |
| TABLE_vrf             | (Optional)                           |
| <i>vrf-name-out</i>   | (Optional) VRF name                  |
| <i>vrf-id</i>         | (Optional) VRF ID                    |
| <i>vrf-state</i>      | (Optional) VRF State                 |
| <i>vrf-state-rsn</i>  | (Optional) VRF State Reason          |
| <i>vrf-rd</i>         | (Optional) VRF RD                    |
| <i>vrf-pending-rd</i> | (Optional) VRF pending RD            |
| TABLE_af              | (Optional)                           |
| <i>af-id</i>          | (Optional) AF ID                     |
| <i>af-table-id</i>    | (Optional) AF table                  |
| <i>af-name</i>        | (Optional) AF table name             |
| <i>af-state</i>       | (Optional) AF table state            |
| <i>af-state-rsn</i>   | (Optional) AF table state reason     |

|                            |                                     |
|----------------------------|-------------------------------------|
| <i>af-num-peers</i>        | (Optional) No. of peers             |
| <i>af-num-active-peers</i> | (Optional) No. of active peers      |
| <i>af-peer-routes</i>      | (Optional) No. of peer routes       |
| <i>af-peer-paths</i>       | (Optional) No. of peer paths        |
| <i>af-peer-networks</i>    | (Optional) No. of peer networks     |
| <i>af-peer-aggregates</i>  | (Optional) No. of aggregates        |
| <i>af-export-rmap</i>      | (Optional) Export route-map         |
| <i>af-import-rmap</i>      | (Optional) Import route-map         |
| <i>af-retain-rt</i>        | (Optional) Retain RT                |
| TABLE_export_rt            | (Optional)                          |
| <i>export-rt</i>           | (Optional) Export route-target      |
| TABLE_import_rt            | (Optional)                          |
| <i>import-rt</i>           | (Optional) Import route-target      |
| TABLE_evpn_export_rt       | (Optional)                          |
| <i>evpn-export-rt</i>      | (Optional) Export EVPN route-target |
| TABLE_evpn_import_rt       | (Optional)                          |
| <i>evpn-import-rt</i>      | (Optional) Import EVPN route-target |
| TABLE_mvpn_export_rt       | (Optional)                          |
| <i>mvpn-export-rt</i>      | (Optional) Export MVPN route-target |
| TABLE_mvpn_import_rt       | (Optional)                          |
| <i>mvpn-import-rt</i>      | (Optional) Import MVPN route-target |
| <i>af-label-mode</i>       | (Optional) Label allocation mode    |
| <i>af-aggregate-label</i>  | (Optional) Aggregate Label          |

### Command Mode

- /exec

# show bgp neighbors

```
show bgp { { [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast
| multicast } | ipv6 { unicast | multicast } | all } } | vpnv4 unicast | vpnv6 unicast | ipv6 labeled-unicast |
link-state | l2vpn vpls | l2vpn evpn | ipv4 mvpn | ipv6 mvpn | ipv4 labeled-unicast } neighbors [ { <neighbor-id>
| <ipv6-neighbor-id> | <neighbor-prefix-id> | <ipv6-neighbor-prefix-id> } ] [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ [ TABLE_neighbor { <neighbor>
| <ipv6neighbor> | <templatepeer> | <ipv4prefixneighbor> | <ipv6prefixneighbor> } ] [ <remoteas> ] [ <localas>
] [ <link> [ <peertype> ] [ <index> ] [ TABLE_peer <peer> ] [ <maxprefixpeers> ] [ <configpeer> ] [
<inherit-template> ] [ <inherit-session-template> ] [ { <prefix-parent> | <ipv6prefix-parent> } ] [ <description>
] [ <version> <remote-id> <state> <up> [ <elapsedtime> ] [ <restarttime> ] ] [ <sourceif> ] [ <connectedif>
] [ <connectedcheck> ] [ <lowmemexempt> ] [ <bfd> ] [ <bfdmintxinterval> ] [ <bfdminrxinterval> ] [
<bfdmultiplier> ] [ <bfdauthenticationtype> ] [ <ttlsecurity> ] [ <tllimit> ] [ <dscp> ] [ <password> ] [
<passiveonly> ] [ <activepeers> <closingpeers> <maxconcurrentpeers> ] [ <allocatedpeers> ] [
<totalpeersaccepted> ] [ <localas-inactive> ] <remove-privateas> [ <gshut-activate> ] [ <gshut-map> ] { { [
<lastread> ] <holdtime> <keepalivetime> [ <lastwrite> ] [ <keepalive> ] <msgrecvd> <notificationsrcvd>
<rcvbufbytesinq> <msgsent> <notificationssent> <sentbytesoutstanding> <sentbytespacked>
<connsestablished> <connsdropped> [ <connattempts> ] { { <peerresettime> } <peerresetreason> [ <resettime>
] <resetreason> } | { <resettime> } <resetreason> [ <peerresettime> ] <peerresetreason> } } [ <capsnegotiated>
<capmpadvertised> [ <caprefreshadvertised> <capgrdynamicadvertised> ] [ <capmprecvd> <caprefreshrecvd>
<capgrdynamicrecvd> ] [ <capolddynamicadvertised> <capolddynamicrecvd> <caprradvertised> <caprrrecvd>
<capoldrradvertised> <capoldrrrecvd> <capas4advertised> <capas4recvd> ] [ { TABLE_af <af-afi> TABLE_saf
<af-safi> <af-advertised> <af-recvd> <af-name> } ] [ <capgradvertised> <capgrrecvd> ] [ { TABLE_graf
<gr-afi> TABLE_grsaf <gr-safi> <gr-af-name> <gr-adv> <gr-recv> <gr-fw> } ] [ <grrestarttime>
<grstaletime> ] [ <grrecvdrestarttime> ] [ { TABLE_addpathscapaf <addpathscap-afi> TABLE_addpathscapsaf
<addpathscap-safi> <addpathscap-af-name> <addpathssendcap-adv> <addpathsrecvcap-adv>
<addpathssendcap-recv> <addpathsrecvcap-recv> } ] [ <capaddpathsadvertised> <capaddpathsrecvd> ] [
<capextendednhadvertised> <capextendednhrecvd> ] [ { TABLE_capextendednhaf <capextendednh-afi>
TABLE_capextendednhsaf <capextendednh-safi> <capextendednh-af-name> } ] } ] [ <configholdtime>
<configkeepalivetime> ] } ] [ <epe> ] [ <epe-adj-sids> ] [ <epe-peer-rpc-set> ] [ <epe-peer-sid> ] [
<epe-peer-set-name> ] [ <epe-peer-set-rpc-set> ] [ <epe-peer-set-sid> ] [ { TABLE_epe-adj { {
<epe-adj-ip-local> <epe-adj-ip-remote> } } | { <epe-adj-ipv6-local> <epe-adj-ipv6-remote> } } ] [
<epe-adj-ifindex> <epe-adj-rpc-set> <epe-adj-sid> } ] [ <grstate> <grexpiry> ] [ <firstkeepalive> ] [
<openssent> <opensrecvd> <updatesent> <updatesrecvd> <keepalivesent> <keepaliverecvd> <rtrefreshsent>
<rtrefreshrecvd> <capabilitiesent> <capabilitiesrecvd> <bytessent> <bytesrecvd> ] [ TABLE_peraf <per-afi>
TABLE_persaf <per-safi> <per-af-name> [ <tableversion> ] [ <neighbortableversion> ] [ <pfxrecvd> ] [
<pathsrecvd> ] [ <pfxbytes> ] [ <pfxsent> ] [ <pathssent> ] [ <conditionmap> <advertisemap>
<advertisemapstatus> ] [ <insoftreconfigallowed> [ <insoftreconfigallowedalways> ] [ <sendcommunity> ] [
<sendextcommunity> ] [ { <localnexthop> | <ipv6localnexthop> } ] [ <thirdpartynexthop> ] [ <maxpfx> ] [
<maxpfx_threshold> ] [ <soo> ] [ <weight> ] [ <allowasin> ] <asoverride> <peerascheckdisabled> [
<vplssignalingprotocol> ] [ { TABLE_inpolicy <inpolicynr> <inpolicytype> <inpolicyname> [
<inpolicyhandle> } ] } ] [ { TABLE_outpolicy <outpolicynr> <outpolicytype> <outpolicyname> [
<outpolicyhandle> } ] } ] <rrconfigured> <defaultoriginate> [ <defaultoriginatemap> ] [ <defaultsent> ] [
<grpathssaved> ] [ <firsteorrecvd> ] [ <firsteortime> ] [ <pathsflushed> ] [ <lasteorrecvtime> ] [
<lasteorsenttime> ] [ <firstconvgtime> ] [ <pfxsentfirsteor> ] [ <unsuppress-map> ] [ { TABLE_policy_template
<preference> <inherit-policy-template> } ] ] [ <threadid> ] [ <passivethreadid> <passivefd> ] [ { <localaddr>
| <ipv6localaddr> } <localport> { <remoteaddr> | <ipv6remoteaddr> } <remoteport> <fd> } ] ] ]
```

## Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                            |
| bgp                       | Display BGP status and configuration                       |
| vrf                       | (Optional) Virtual Router Context                          |
| <i>vrf-name</i>           | (Optional) VRF name  |
| <i>vrf-known-name</i>     | (Optional) Known VRF name                                  |
| neighbors                 | Display all configured BGP neighbors                       |
| <i>neighbor-id</i>        | (Optional) Display one particular BGP neighbor             |
| <i>neighbor-prefix-id</i> | (Optional) Display details for a prefix peering            |
| ipv4                      | Display BGP information for IPv4 address family            |
| vpn4                      | Display BGP information for VPNv4 address family           |
| vpn6                      | Display BGP information for VPNv6 address family           |
| ipv6                      | Display BGP information for IPv6 address family            |
| unicast                   | Display BGP information for unicast address family         |
| multicast                 | Display BGP information for multicast address family       |
| labeled-unicast           | Display BGP information for labeled-unicast address family |
| link-state                | Display BGP information for link-state address family      |
| l2vpn                     | Display BGP information for L2VPN address family           |
| vpls                      | Display BGP information for L2VPN VPLS address family      |
| mvpn                      | Display BGP information for MVPN address family            |
| evpn                      | Display BGP information for L2VPN EVPN address family      |
| all                       | Display BGP information for all address families           |
| <i>__readonly__</i>       | (Optional)   |
| TABLE_neighbor            | (Optional)   |
| <i>neighbor</i>           | (Optional)   |
| <i>templatepeer</i>       | (Optional)   |
| <i>ipv4prefixneighbor</i> | (Optional)   |
| <i>remoteas</i>           | (Optional)   |
| <i>localas</i>            | (Optional)   |
| <i>link</i>               | (Optional)   |

|                                 |            |
|---------------------------------|------------|
| <i>index</i>                    | (Optional) |
| TABLE_peer                      | (Optional) |
| <i>peer</i>                     | (Optional) |
| <i>maxprefixpeers</i>           | (Optional) |
| <i>configpeer</i>               | (Optional) |
| <i>inherit-template</i>         | (Optional) |
| <i>inherit-session-template</i> | (Optional) |
| <i>prefix-parent</i>            | (Optional) |
| <i>description</i>              | (Optional) |
| <i>version</i>                  | (Optional) |
| <i>remote-id</i>                | (Optional) |
| <i>state</i>                    | (Optional) |
| <i>up</i>                       | (Optional) |
| <i>elapsedtime</i>              | (Optional) |
| <i>restarttime</i>              | (Optional) |
| <i>peertype</i>                 | (Optional) |
| <i>sourceif</i>                 | (Optional) |
| <i>connectedif</i>              | (Optional) |
| <i>connectedcheck</i>           | (Optional) |
| <i>lowmemexempt</i>             | (Optional) |
| <i>bfd</i>                      | (Optional) |
| <i>bfdmintxinterval</i>         | (Optional) |
| <i>bfdminrxinterval</i>         | (Optional) |
| <i>bfdmultiplier</i>            | (Optional) |
| <i>bfdauthenticationtype</i>    | (Optional) |
| <i>ttlsecurity</i>              | (Optional) |
| <i>tllimit</i>                  | (Optional) |
| <i>dscp</i>                     | (Optional) |
| <i>localas-inactive</i>         | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>passiveonly</i>          | (Optional) |
| <i>activepeers</i>          | (Optional) |
| <i>closingpeers</i>         | (Optional) |
| <i>maxconcurrentpeers</i>   | (Optional) |
| <i>allocatedpeers</i>       | (Optional) |
| <i>totalpeersaccepted</i>   | (Optional) |
| <i>password</i>             | (Optional) |
| <i>remove-privateas</i>     | (Optional) |
| <i>gshut-activate</i>       | (Optional) |
| <i>gshut-map</i>            | (Optional) |
| <i>lastread</i>             | (Optional) |
| <i>holdtime</i>             | (Optional) |
| <i>keepalivetime</i>        | (Optional) |
| <i>lastwrite</i>            | (Optional) |
| <i>keepalive</i>            | (Optional) |
| <i>msgrecvd</i>             | (Optional) |
| <i>notificationsrcvd</i>    | (Optional) |
| <i>rcvbufbytesinq</i>       | (Optional) |
| <i>msgsent</i>              | (Optional) |
| <i>notificationssent</i>    | (Optional) |
| <i>sentbytesoutstanding</i> | (Optional) |
| <i>sentbytespacked</i>      | (Optional) |
| <i>connsestablished</i>     | (Optional) |
| <i>connsdropped</i>         | (Optional) |
| <i>connattempts</i>         | (Optional) |
| <i>peerresettime</i>        | (Optional) |
| <i>peerresetreason</i>      | (Optional) |
| <i>resettime</i>            | (Optional) |
| <i>resetreason</i>          | (Optional) |



|                             |            |
|-----------------------------|------------|
| <i>configholdtime</i>       | (Optional) |
| <i>configkeepalivetime</i>  | (Optional) |
| <i>grstate</i>              | (Optional) |
| <i>gexpiry</i>              | (Optional) |
| <i>firstkeepalive</i>       | (Optional) |
| <i>epe</i>                  | (Optional) |
| <i>epe-adj-sids</i>         | (Optional) |
| <i>epe-peer-rpc-set</i>     | (Optional) |
| <i>epe-peer-sid</i>         | (Optional) |
| <i>epe-peer-set-name</i>    | (Optional) |
| <i>epe-peer-set-rpc-set</i> | (Optional) |
| <i>epe-peer-set-sid</i>     | (Optional) |
| TABLE_ <i>epe-adj</i>       | (Optional) |
| <i>epe-adj-ip-local</i>     | (Optional) |
| <i>epe-adj-ip-remote</i>    | (Optional) |
| <i>epe-adj-ifindex</i>      | (Optional) |
| <i>epe-adj-rpc-set</i>      | (Optional) |
| <i>epe-adj-sid</i>          | (Optional) |
| <i>openssent</i>            | (Optional) |
| <i>opensrcvd</i>            | (Optional) |
| <i>updatesent</i>           | (Optional) |
| <i>updatesrcvd</i>          | (Optional) |
| <i>keepalivesent</i>        | (Optional) |
| <i>keepaliverecvd</i>       | (Optional) |
| <i>rtrefreshsent</i>        | (Optional) |
| <i>rtrefreshrcvd</i>        | (Optional) |
| <i>capabilitiesent</i>      | (Optional) |
| <i>capabilitiesrcvd</i>     | (Optional) |
| <i>bytessent</i>            | (Optional) |

|                                |            |
|--------------------------------|------------|
| <i>bytesrcvd</i>               | (Optional) |
| <i>threadid</i>                | (Optional) |
| <i>fd</i>                      | (Optional) |
| <i>passivethreadid</i>         | (Optional) |
| <i>passivefd</i>               | (Optional) |
| <i>localaddr</i>               | (Optional) |
| <i>localport</i>               | (Optional) |
| <i>remoteaddr</i>              | (Optional) |
| <i>remoteport</i>              | (Optional) |
| <i>capsnegotiated</i>          | (Optional) |
| <i>capmpadvertised</i>         | (Optional) |
| <i>capgrdynamicadvertised</i>  | (Optional) |
| <i>capaddpathsadvertised</i>   | (Optional) |
| <i>caprefreshadvertised</i>    | (Optional) |
| <i>capmprecvd</i>              | (Optional) |
| <i>capgrdynamicrcvd</i>        | (Optional) |
| <i>capaddpathsrcvd</i>         | (Optional) |
| <i>caprefreshrcvd</i>          | (Optional) |
| <i>capolddynamicadvertised</i> | (Optional) |
| <i>capolddynamicrcvd</i>       | (Optional) |
| <i>caprradvertised</i>         | (Optional) |
| <i>caprrrcvd</i>               | (Optional) |
| <i>capoldrradvertised</i>      | (Optional) |
| <i>capoldrrrcvd</i>            | (Optional) |
| <i>capas4advertised</i>        | (Optional) |
| <i>capas4rcvd</i>              | (Optional) |
| TABLE_af                       | (Optional) |
| <i>af-afi</i>                  | (Optional) |
| TABLE_saf                      | (Optional) |

|                                |            |
|--------------------------------|------------|
| <i>af-safi</i>                 | (Optional) |
| <i>af-advertised</i>           | (Optional) |
| <i>af-recvd</i>                | (Optional) |
| <i>af-name</i>                 | (Optional) |
| <i>capgradvertised</i>         | (Optional) |
| <i>capgrrecvd</i>              | (Optional) |
| TABLE_graf                     | (Optional) |
| <i>gr-afi</i>                  | (Optional) |
| TABLE_grsaf                    | (Optional) |
| <i>gr-safi</i>                 | (Optional) |
| <i>gr-af-name</i>              | (Optional) |
| <i>gr-adv</i>                  | (Optional) |
| <i>gr-recv</i>                 | (Optional) |
| <i>gr-fwd</i>                  | (Optional) |
| <i>grrestarttime</i>           | (Optional) |
| <i>grstaletime</i>             | (Optional) |
| <i>grrecvdrestarttime</i>      | (Optional) |
| TABLE_addpathscapaf            | (Optional) |
| <i>addpathscap-afi</i>         | (Optional) |
| TABLE_addpathscapsaf           | (Optional) |
| <i>addpathscap-safi</i>        | (Optional) |
| <i>addpathscap-af-name</i>     | (Optional) |
| <i>addpathssendcap-adv</i>     | (Optional) |
| <i>addpathsrecvcap-adv</i>     | (Optional) |
| <i>addpathssendcap-recv</i>    | (Optional) |
| <i>addpathsrecvcap-recv</i>    | (Optional) |
| <i>capextendednhadvertised</i> | (Optional) |
| <i>capextendednhrecvd</i>      | (Optional) |
| TABLE_capextendednhaf          | (Optional) |

|                                    |            |
|------------------------------------|------------|
| <i>capextendednh-afi</i>           | (Optional) |
| TABLE_capextendednhsaf             | (Optional) |
| <i>capextendednh-safi</i>          | (Optional) |
| <i>capextendednh-af-name</i>       | (Optional) |
| TABLE_peraf                        | (Optional) |
| <i>per-afi</i>                     | (Optional) |
| TABLE_persaf                       | (Optional) |
| <i>per-safi</i>                    | (Optional) |
| <i>per-af-name</i>                 | (Optional) |
| <i>tableversion</i>                | (Optional) |
| <i>neighbortableversion</i>        | (Optional) |
| <i>pxrcvd</i>                      | (Optional) |
| <i>pathsrcvd</i>                   | (Optional) |
| <i>pxbytes</i>                     | (Optional) |
| <i>pxsent</i>                      | (Optional) |
| <i>pathsent</i>                    | (Optional) |
| <i>conditionmap</i>                | (Optional) |
| <i>advertisemap</i>                | (Optional) |
| <i>advertisemapstatus</i>          | (Optional) |
| <i>insoftreconfigallowed</i>       | (Optional) |
| <i>insoftreconfigallowedalways</i> | (Optional) |
| <i>sendcommunity</i>               | (Optional) |
| <i>sendextcommunity</i>            | (Optional) |
| <i>maxpfx</i>                      | (Optional) |
| <i>maxpfx_threshold</i>            | (Optional) |
| <i>localnexthop</i>                | (Optional) |
| TABLE_inpolicy                     | (Optional) |
| <i>inpolicynr</i>                  | (Optional) |
| <i>inpolicytype</i>                | (Optional) |

|                              |            |
|------------------------------|------------|
| <i>inpolicyname</i>          | (Optional) |
| <i>inpolicyhandle</i>        | (Optional) |
| TABLE_outpolicy              | (Optional) |
| <i>outpolicynr</i>           | (Optional) |
| <i>outpolicytype</i>         | (Optional) |
| <i>outpolicyname</i>         | (Optional) |
| <i>outpolicyhandle</i>       | (Optional) |
| <i>rrconfigured</i>          | (Optional) |
| <i>defaultoriginate</i>      | (Optional) |
| <i>defaultoriginatemap</i>   | (Optional) |
| <i>defaultsent</i>           | (Optional) |
| <i>grpathsaved</i>           | (Optional) |
| <i>firsteorrecvd</i>         | (Optional) |
| <i>firsteortime</i>          | (Optional) |
| <i>pathsflushed</i>          | (Optional) |
| <i>lasteorrecvtime</i>       | (Optional) |
| <i>lasteorsenttime</i>       | (Optional) |
| <i>firstconvgttime</i>       | (Optional) |
| <i>pxsentfirsteor</i>        | (Optional) |
| <i>unsuppress-map</i>        | (Optional) |
| <i>thirdpartynexthop</i>     | (Optional) |
| <i>soo</i>                   | (Optional) |
| <i>weight</i>                | (Optional) |
| <i>allowasin</i>             | (Optional) |
| <i>asoverride</i>            | (Optional) |
| <i>peerascheckdisabled</i>   | (Optional) |
| <i>vplssignalingprotocol</i> | (Optional) |
| TABLE_policy_template        | (Optional) |
| <i>preference</i>            | (Optional) |

|                                |            |
|--------------------------------|------------|
| <i>inherit-policy-template</i> | (Optional) |
|--------------------------------|------------|

**Command Mode**

- /exec

## show bgp neighbors

```
show bgp { { [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast
| multicast } | ipv6 { unicast | multicast } | all } } | vpnv4 unicast | vpnv6 unicast | ipv4 labeled-unicast | ipv4
labeled-unicast | l2vpn evpn } neighbors { <neighbor-id> | <ipv6-neighbor-id> } { routes [ advertised | received
| dampened ] | advertised-routes | received-routes } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi
<safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [
TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [
<on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [ <table-map-filtered> ] [
<export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path
<pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop>
} } { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [ <metric> ] [ <localpref>
] } } } | [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <pathnolabeledrn> ] [ <importsourc> [ <originalimportsourc> ]
] [ <importdestscout> ] [ TABLE_importdests <importdest> ] [ <existpath> ] [ <aspath> <source> ] {
<ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin>
[ <metric> ] <localpref> <weight> [ <aggregator> <aggregators> <atomicaggregate> ] [ <inlabel> ] [
<originflag> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity <extcommunity> } ] [
<originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime>
<flapflags> <flapindex> <flaphalflife> <flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len>
<con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len>
<psid_v6sid> ] [ <psid_origsrgrb_len> <psid_origsrgrb_flag> <psid_origsrgrb_base> <psid_origsrgrb_end> ] ]
[ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [
<link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [
TABLE_scheduledto <scheduledto> ] ] ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                            |
| bgp                   | Display BGP status and configuration                       |
| vrf                   | (Optional) Virtual Router Context                          |
| <i>vrf-name</i>       | (Optional) VRF name  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                  |
| neighbors             | Display all configured BGP neighbors                       |
| <i>neighbor-id</i>    | Display one particular BGP neighbor                        |
| ipv4                  | Display BGP information for IPv4 address family            |
| vpnv4                 | Display BGP information for VPNv4 address family           |
| vpnv6                 | Display BGP information for VPNv6 address family           |
| labeled-unicast       | Display BGP information for labeled-unicast address family |
| ipv6                  | Display BGP information for IPv6 address family            |

|                   |  |
|-------------------|--|
| unicast           | Display BGP information for unicast address family             |
| multicast         | Display BGP information for multicast address family           |
| all               | Display BGP information for all address families               |
| l2vpn             | Display BGP information for L2VPN address family               |
| evpn              | Display BGP information for L2VPN EVPN address family          |
| routes            | Display all routes advertised/received to/from peer            |
| advertised        | (Optional) Display all routes advertised to this peer          |
| received          | (Optional) Display all routes received from this peer          |
| advertised-routes | Display all the routes advertised to this peer                 |
| received-routes   | Display all the routes received from this peer                 |
| dampened          | (Optional) Display all dampened routes received from this peer |
| __readonly__      | (Optional)   |
| TABLE_vrf         | (Optional)   |
| vrf-name-out      | (Optional)   |
| TABLE_afi         | (Optional)   |
| afi               | (Optional)   |
| TABLE_safi        | (Optional)   |
| safi              | (Optional)   |
| af-name           | (Optional)   |
| table-version     | (Optional)   |
| router-id         | (Optional)   |
| TABLE_rd          | (Optional)   |
| rd_val            | (Optional)   |
| rd_vrf            | (Optional)   |
| rd_vniid          | (Optional)   |
| TABLE_prefix      | (Optional)   |
| ipprefix          | (Optional)   |
| nonipprefix       | (Optional)   |
| totalpaths        | (Optional)   |



|                           |            |
|---------------------------|------------|
| <i>bestpathnr</i>         | (Optional) |
| <i>mpath</i>              | (Optional) |
| TABLE_advertisedto        | (Optional) |
| <i>advertisedto</i>       | (Optional) |
| TABLE_scheduledto         | (Optional) |
| <i>scheduledto</i>        | (Optional) |
| <i>prefixversion</i>      | (Optional) |
| <i>on-newlist</i>         | (Optional) |
| <i>on-xmitlist</i>        | (Optional) |
| <i>suppressed</i>         | (Optional) |
| <i>needsresync</i>        | (Optional) |
| <i>locked</i>             | (Optional) |
| <i>table-map-filtered</i> | (Optional) |
| <i>export-on-newlist</i>  | (Optional) |
| <i>export-on-xmitlist</i> | (Optional) |
| <i>locallabel</i>         | (Optional) |
| <i>labelhldwstr</i>       | (Optional) |
| TABLE_path                | (Optional) |
| <i>pathnr</i>             | (Optional) |
| <i>best</i>               | (Optional) |
| <i>status</i>             | (Optional) |
| <i>type</i>               | (Optional) |
| <i>statuscode</i>         | (Optional) |
| <i>bestcode</i>           | (Optional) |
| <i>typecode</i>           | (Optional) |
| <i>ipnexthop</i>          | (Optional) |
| <i>neighbor</i>           | (Optional) |
| <i>neighborid</i>         | (Optional) |
| <i>metric</i>             | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>localpref</i>            | (Optional) |
| <i>weight</i>               | (Optional) |
| <i>importsource</i>         | (Optional) |
| <i>originalimportsource</i> | (Optional) |
| <i>importdestscount</i>     | (Optional) |
| TABLE_importdests           | (Optional) |
| <i>importdest</i>           | (Optional) |
| <i>existpath</i>            | (Optional) |
| <i>aspath</i>               | (Optional) |
| <i>origin</i>               | (Optional) |
| <i>source</i>               | (Optional) |
| <i>policyincomplete</i>     | (Optional) |
| <i>pathvalid</i>            | (Optional) |
| <i>pathbest</i>             | (Optional) |
| <i>pathdeleted</i>          | (Optional) |
| <i>pathstaled</i>           | (Optional) |
| <i>pathhistory</i>          | (Optional) |
| <i>pathmultipath</i>        | (Optional) |
| <i>pathovermaxaslimit</i>   | (Optional) |
| <i>pathnolabeledrn</i>      | (Optional) |
| <i>nexthopmetric</i>        | (Optional) |
| <i>aggregator</i>           | (Optional) |
| <i>aggregatoras</i>         | (Optional) |
| <i>atomicaggregate</i>      | (Optional) |
| <i>inlabel</i>              | (Optional) |
| <i>originflag</i>           | (Optional) |
| <i>vpn</i>                  | (Optional) |
| <i>hold_down</i>            | (Optional) |
| <i>outlabel</i>             | (Optional) |

|                            |            |
|----------------------------|------------|
| <i>flappenalty</i>         | (Optional) |
| <i>dampenedtime</i>        | (Optional) |
| <i>flaps</i>               | (Optional) |
| <i>flaptime</i>            | (Optional) |
| <i>flapflags</i>           | (Optional) |
| <i>flapindex</i>           | (Optional) |
| <i>flaphalflife</i>        | (Optional) |
| <i>flapreuse</i>           | (Optional) |
| <i>flapsuppress</i>        | (Optional) |
| <i>flapmax</i>             | (Optional) |
| <i>con_type</i>            | (Optional) |
| <i>con_len</i>             | (Optional) |
| <i>con_rd</i>              | (Optional) |
| <i>con_ip</i>              | (Optional) |
| <i>mdt_grp_addr</i>        | (Optional) |
| <i>evpn-esi</i>            | (Optional) |
| <i>link-state-attr</i>     | (Optional) |
| <i>link-state-attr-len</i> | (Optional) |
| TABLE_community            | (Optional) |
| <i>community</i>           | (Optional) |
| TABLE_extcommunity         | (Optional) |
| <i>extcommunity</i>        | (Optional) |
| <i>originatorid</i>        | (Optional) |
| TABLE_clusterlist          | (Optional) |
| <i>clusterlist</i>         | (Optional) |
| <i>remotenh</i>            | (Optional) |
| <i>remotenh_encap</i>      | (Optional) |
| <i>remotenh_vnid</i>       | (Optional) |
| <i>remotenh_mac</i>        | (Optional) |

|                           |            |
|---------------------------|------------|
| <i>pmsi</i>               | (Optional) |
| <i>psid_len</i>           | (Optional) |
| <i>psid_lindx_len</i>     | (Optional) |
| <i>psid_lindx_flag</i>    | (Optional) |
| <i>psid_lindx</i>         | (Optional) |
| <i>psid_v6sid_len</i>     | (Optional) |
| <i>psid_origsrgb_len</i>  | (Optional) |
| <i>psid_origsrgb_flag</i> | (Optional) |
| <i>psid_origsrgb_base</i> | (Optional) |
| <i>psid_origsrgb_end</i>  | (Optional) |

**Command Mode**

- /exec

## show bgp neighbors commands

```
show bgp { { [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast
| multicast } | ipv6 { unicast | multicast } | all } } | vpnv4 unicast | vpnv6 unicast | l2vpn evpn } neighbors {
<neighbor-id> | <ipv6-neighbor-id> } commands [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ __readonly__ [ { TABLE_sesscmd <sessioncmd> <sessioncmdstatus>
[ <sessioncmdtemplate> ] } ] [ TABLE_af <af-afi> TABLE_saf <af-safi> <af-name> [ { TABLE_polcmd
<polycycmd> <polycycmdstatus> [ <polycycmdtemplate> ] } ] ] ] ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information                       |
| bgp                       | Display BGP status and configuration                  |
| vrf                       | (Optional) Virtual Router Context                     |
| <i>vrf-name</i>           | (Optional) VRF name                                   |
| <i>vrf-known-name</i>     | (Optional) Known VRF name                             |
| <i>neighbor-id</i>        | Display one particular BGP neighbor                   |
| ipv4                      | Display BGP information for IPv4 address family       |
| ipv6                      | Display BGP information for IPv6 address family       |
| vpnv4                     | Display BGP information for VPNv4 address family      |
| vpnv6                     | Display BGP information for VPNv6 address family      |
| unicast                   | Display BGP information for unicast address family    |
| multicast                 | Display BGP information for multicast address family  |
| all                       | Display BGP information for all address families      |
| l2vpn                     | Display BGP information for L2VPN address family      |
| evpn                      | Display BGP information for L2VPN EVPN address family |
| neighbors                 | Display all configured BGP neighbors                  |
| commands                  | Display details on commands                           |
| <i>__readonly__</i>       | (Optional)  |
| TABLE_sesscmd             | (Optional)  |
| <i>sessioncmd</i>         | (Optional)  |
| <i>sessioncmdstatus</i>   | (Optional)  |
| <i>sessioncmdtemplate</i> | (Optional)  |

|                        |            |
|------------------------|------------|
| TABLE_af               | (Optional) |
| <i>af-afi</i>          | (Optional) |
| TABLE_saf              | (Optional) |
| <i>af-safi</i>         | (Optional) |
| <i>af-name</i>         | (Optional) |
| TABLE_polcmd           | (Optional) |
| <i>polycmd</i>         | (Optional) |
| <i>polycmdstatus</i>   | (Optional) |
| <i>polycmdtemplate</i> | (Optional) |

**Command Mode**

- /exec

## show bgp neighbors flap-statistics

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | all } neighbors { <neighbor-id> | <ipv6-neighbor-id> } flap-statistics
[ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf
<vrf-name-out> [ TABLE_afi <afi> TABLE_safi <safi> <af-name> [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [
<rd_vniid> ] ] [ <dampening> <historypaths> <dampenedpaths> ] [ TABLE_prefix { <ipprefix> | <ipv6prefix>
| <nonipprefix> } ] [ <status> ] [ <pathtype> ] [ <peer> | <ipv6peer> ] [ <flapcount> ] [ <duration> ] [ <reuse>
] [ <penalty> ] [ <suppresslimit> ] [ <reuselimit> ] [ <best> ] ] ] ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                            |
| bgp                   | Display BGP status and configuration                       |
| vrf                   | (Optional) Virtual Router Context                          |
| <i>vrf-name</i>       | (Optional) VRF name  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                  |
| neighbors             | Display all configured BGP neighbors                       |
| <i>neighbor-id</i>    | Display one particular BGP neighbor                        |
| ipv4                  | Display BGP information for IPv4 address family            |
| ipv6                  | Display BGP information for IPv6 address family            |
| unicast               | Display BGP information for unicast address family         |
| multicast             | Display BGP information for multicast address family       |
| all                   | Display BGP information for all address families           |
| flap-statistics       | Display flap statistics for routes received from this peer |
| __readonly__          | (Optional)   |
| TABLE_vrf             | (Optional)   |
| <i>vrf-name-out</i>   | (Optional)   |
| TABLE_afi             | (Optional)   |
| <i>afi</i>            | (Optional)   |
| TABLE_safi            | (Optional)   |
| <i>safi</i>           | (Optional)   |
| <i>af-name</i>        | (Optional)   |
| TABLE_rd              | (Optional)   |

|                      |            |
|----------------------|------------|
| <i>rd_val</i>        | (Optional) |
| <i>rd_vrf</i>        | (Optional) |
| <i>rd_vniid</i>      | (Optional) |
| <i>dampening</i>     | (Optional) |
| <i>historypaths</i>  | (Optional) |
| <i>dampenedpaths</i> | (Optional) |
| TABLE_prefix         | (Optional) |
| <i>ipprefix</i>      | (Optional) |
| <i>nonipprefix</i>   | (Optional) |
| <i>status</i>        | (Optional) |
| <i>best</i>          | (Optional) |
| <i>pathtype</i>      | (Optional) |
| <i>peer</i>          | (Optional) |
| <i>flapcount</i>     | (Optional) |
| <i>duration</i>      | (Optional) |
| <i>reuse</i>         | (Optional) |
| <i>penalty</i>       | (Optional) |
| <i>suppresslimit</i> | (Optional) |
| <i>reuselimit</i>    | (Optional) |

**Command Mode**

- /exec



## show bgp neighbors paths

```
show bgp { { [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast
| multicast } | ipv6 { unicast | multicast } | all } } | vpnv4 unicast | vpnv6 unicast | ipv6 labeled-unicast | ipv4
labeled-unicast | link-state | l2vpn evpn } neighbors { <neighbor-id> | <ipv6-neighbor-id> } paths [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ TABLE_id <id> <hashvalue> <refcount>
<metric> <aspath> ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                            |
| bgp                   | Display BGP status and configuration                       |
| vrf                   | (Optional) Virtual Router Context                          |
| <i>vrf-name</i>       | (Optional) VRF name  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                  |
| neighbors             | Display all configured BGP neighbors                       |
| <i>neighbor-id</i>    | Display one particular BGP neighbor                        |
| ipv4                  | Display BGP information for IPv4 address family            |
| vpnv4                 | Display BGP information for VPNv4 address family           |
| vpnv6                 | Display BGP information for VPNv6 address family           |
| ipv6                  | Display BGP information for IPv6 address family            |
| unicast               | Display BGP information for unicast address family         |
| multicast             | Display BGP information for multicast address family       |
| labeled-unicast       | Display BGP information for labeled-unicast address family |
| link-state            | Display BGP information for link-state address family      |
| all                   | Display BGP information for all address families           |
| l2vpn                 | Display BGP information for L2VPN address family           |
| evpn                  | Display BGP information for L2VPN EVPN address family      |
| paths                 | Display AS paths learned from this peer                    |
| <u>__readonly__</u>   | (Optional)   |
| TABLE_vrf             | (Optional)   |
| <i>vrf-name-out</i>   | (Optional)   |

|                  |            |
|------------------|------------|
| TABLE_afi        | (Optional) |
| <i>afi</i>       | (Optional) |
| TABLE_safi       | (Optional) |
| <i>safi</i>      | (Optional) |
| <i>af-name</i>   | (Optional) |
| TABLE_id         | (Optional) |
| <i>id</i>        | (Optional) |
| <i>hashvalue</i> | (Optional) |
| <i>refcount</i>  | (Optional) |
| <i>metric</i>    | (Optional) |
| <i>aspath</i>    | (Optional) |

**Command Mode**

- /exec

# show bgp paths

```
show [ ip ] bgp paths [ __readonly__ TABLE_id <id> <hashvalue> <refcount> <metric> <aspath> <origin> ]
```

## Syntax Description

|                  |                                      |
|------------------|--------------------------------------|
| show             | Show running system information      |
| ip               | (Optional) Display IP information    |
| bgp              | Display BGP status and configuration |
| paths            | Display Path information             |
| __readonly__     | (Optional)                           |
| TABLE_id         | (Optional)                           |
| <i>id</i>        | (Optional)                           |
| <i>hashvalue</i> | (Optional)                           |
| <i>refcount</i>  | (Optional)                           |
| <i>metric</i>    | (Optional)                           |
| <i>aspath</i>    | (Optional)                           |
| <i>origin</i>    | (Optional)                           |

## Command Mode

- /exec

## show bgp peer-template

```
show [ ip ] bgp peer-template [ <peer-template-name> ] [ __readonly__ { TABLE_neighbor <templatepeer>
[ <remoteas> ] [ <inherit-template> ] [ <inherit-session-template> ] [ { <prefix-parent> | <ipv6prefix-parent>
} ] [ <description> ] [ <sourceif> ] [ <connectedcheck> ] [ <lowmemexempt> ] [ <bfd> ] [ <bfdmintxinterval>
] [ <bfdminrxinterval> ] [ <bfdmultiplier> ] [ <bfdauthenticationtype> ] [ <ttlsecurity> ] [ <tllimit> ] [ <dscp>
] [ <password> ] [ <passiveonly> ] <localas-inactive> [ <remove-privateas> ] [ <configholdtime>
<configkeepalivetime> ] [ TABLE_peraf <per-afi> TABLE_persaf <per-safi> <per-af-name> [ <tableversion>
] [ <neighbortableversion> ] [ <pfxrcvd> ] [ <pathsrecvd> ] [ <pfxbytes> ] [ <pfxsent> ] [ <pathsstent> ] [
<conditionmap> <advertisemap> <advertisemapstatus> ] <insoftreconfigallowed> [
<insoftreconfigallowedalways> ] [ <sendcommunity> ] [ <sendextcommunity> ] [ { <localnexthop> |
<ipv6localnexthop> } ] [ <thirdpartynexthop> ] [ <maxpfx> ] [ <maxpfx_threshold> ] [ <soo> ] [ <weight>
] [ <allowasin> ] <asoverride> <peerascheckdisabled> [ <vplssignalingprotocol> ] [ { TABLE_inpolicy
<inpolicynr> <inpolicytype> <inpolicyname> [ <inpolicyhandle> } ] [ { TABLE_outpolicy <outpolicynr>
<outpolicytype> <outpolicyname> [ <outpolicyhandle> } ] ] <rrconfigured> <defaultoriginate> [
<defaultoriginatormap> ] [ <defaultsent> ] [ <grpathssaved> ] [ <firsteorrecvd> ] [ <firsteortime> ] [
<pathsflushed> ] [ <lasteorrecvtime> ] [ <lasteorsenttime> ] [ <firstconvgtime> ] [ <pfxsentfirsteor> ] [
<unsuppress-map> ] [ { TABLE_policy_template <preference> <inherit-policy-template> } ] [ TABLE_vrf
<vrf-name> [ TABLE_inheritingpeer <inheritingpeer> ] ] }
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information           |
| ip                              | (Optional) Display IP information         |
| bgp                             | Display BGP status and configuration      |
| peer-template                   | Display information about a peer-template |
| <i>peer-template-name</i>       | (Optional) Peer-template name             |
| <i>__readonly__</i>             | (Optional)                                |
| TABLE_neighbor                  | (Optional)                                |
| <i>templatepeer</i>             | (Optional)                                |
| <i>remoteas</i>                 | (Optional)                                |
| <i>inherit-template</i>         | (Optional)                                |
| <i>inherit-session-template</i> | (Optional)                                |
| <i>prefix-parent</i>            | (Optional)                                |
| <i>description</i>              | (Optional)                                |
| <i>sourceif</i>                 | (Optional)                                |
| <i>connectedcheck</i>           | (Optional)                                |
| <i>lowmemexempt</i>             | (Optional)                                |

|                              |            |
|------------------------------|------------|
| <i>bfd</i>                   | (Optional) |
| <i>bfdmintxinterval</i>      | (Optional) |
| <i>bfdminrxinterval</i>      | (Optional) |
| <i>bfdmultiplier</i>         | (Optional) |
| <i>bfdauthenticationtype</i> | (Optional) |
| <i>ttlsecurity</i>           | (Optional) |
| <i>tllimit</i>               | (Optional) |
| <i>dscp</i>                  | (Optional) |
| <i>passiveonly</i>           | (Optional) |
| <i>password</i>              | (Optional) |
| <i>localas-inactive</i>      | (Optional) |
| <i>remove-privateas</i>      | (Optional) |
| <i>configholdtime</i>        | (Optional) |
| <i>configkeepalivetime</i>   | (Optional) |
| TABLE_vrf                    | (Optional) |
| <i>vrf-name</i>              | (Optional) |
| TABLE_inheritingpeer         | (Optional) |
| <i>inheritingpeer</i>        | (Optional) |
| TABLE_peraf                  | (Optional) |
| <i>per-afi</i>               | (Optional) |
| TABLE_persaf                 | (Optional) |
| <i>per-safi</i>              | (Optional) |
| <i>per-af-name</i>           | (Optional) |
| <i>tableversion</i>          | (Optional) |
| <i>neighbortableversion</i>  | (Optional) |
| <i>pfxrecvd</i>              | (Optional) |
| <i>pathsrecvd</i>            | (Optional) |
| <i>pfxbytes</i>              | (Optional) |
| <i>pfxsent</i>               | (Optional) |

|                                    |            |
|------------------------------------|------------|
| <i>pathssent</i>                   | (Optional) |
| <i>conditionmap</i>                | (Optional) |
| <i>advertisemap</i>                | (Optional) |
| <i>advertisemapstatus</i>          | (Optional) |
| <i>insoftreconfigallowed</i>       | (Optional) |
| <i>insoftreconfigallowedalways</i> | (Optional) |
| <i>sendcommunity</i>               | (Optional) |
| <i>sendextcommunity</i>            | (Optional) |
| <i>maxpfx</i>                      | (Optional) |
| <i>maxpfx_threshold</i>            | (Optional) |
| <i>localnexthop</i>                | (Optional) |
| TABLE_inpolicy                     | (Optional) |
| <i>inpolicynr</i>                  | (Optional) |
| <i>inpolicytype</i>                | (Optional) |
| <i>inpolicyname</i>                | (Optional) |
| <i>inpolicyhandle</i>              | (Optional) |
| TABLE_outpolicy                    | (Optional) |
| <i>outpolicynr</i>                 | (Optional) |
| <i>outpolicytype</i>               | (Optional) |
| <i>outpolicyname</i>               | (Optional) |
| <i>outpolicyhandle</i>             | (Optional) |
| <i>rrconfigured</i>                | (Optional) |
| <i>defaultoriginate</i>            | (Optional) |
| <i>defaultoriginatermap</i>        | (Optional) |
| <i>defaultsent</i>                 | (Optional) |
| <i>grpathssaved</i>                | (Optional) |
| <i>firsteorrecvd</i>               | (Optional) |
| <i>firsteortime</i>                | (Optional) |
| <i>pathsflushed</i>                | (Optional) |

|                                |            |
|--------------------------------|------------|
| <i>lasterrorrecvtime</i>       | (Optional) |
| <i>lasteorsenttime</i>         | (Optional) |
| <i>firstconvgttime</i>         | (Optional) |
| <i>pfxsentfirsteor</i>         | (Optional) |
| <i>unsuppress-map</i>          | (Optional) |
| <i>thirdpartynexthop</i>       | (Optional) |
| <i>soo</i>                     | (Optional) |
| <i>weight</i>                  | (Optional) |
| <i>allowasin</i>               | (Optional) |
| <i>asoverride</i>              | (Optional) |
| <i>peerascheckdisabled</i>     | (Optional) |
| <i>vplssignalingprotocol</i>   | (Optional) |
| TABLE_policy_template          | (Optional) |
| <i>preference</i>              | (Optional) |
| <i>inherit-policy-template</i> | (Optional) |

### Command Mode

- /exec

## show bgp peer

```
show [ ip ] bgp { peer-session [ <session-template-name> ] | peer-policy [ <policy-template-name> ] } [
__readonly__ TABLE_template <template> <present> [ { TABLE_command <command> [ <polarity> ] [
<updatesource> ] [ <description> ] [ <multihop> ] [ <holdtime> ] [ <keepalive> ] [ <dscp> ] [ <routemapin>
] [ <routemapout> ] [ <filterlistin> ] [ <filterlistout> ] [ <prefixlistin> ] [ <prefixlistout> ] [ <maxprefixlimit>
] [ <defaultorigin> ] } ] [ { TABLE_vrf <vrf-name> { TABLE_peer <inheritingpeer> } } ] ]
```

### Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show running system information          |
| ip                           | (Optional) Display IP information        |
| bgp                          | Display BGP status and configuration     |
| peer-session                 | Display information about a peer-session |
| peer-policy                  | Display information about a peer-policy  |
| <i>session-template-name</i> | (Optional) Peer-session name             |
| <i>policy-template-name</i>  | (Optional) Peer-policy name              |
| <i>__readonly__</i>          | (Optional)                               |
| TABLE_template               | (Optional)                               |
| <i>template</i>              | (Optional)                               |
| <i>present</i>               | (Optional)                               |
| TABLE_command                | (Optional)                               |
| <i>command</i>               | (Optional)                               |
| <i>polarity</i>              | (Optional)                               |
| <i>updatesource</i>          | (Optional)                               |
| <i>description</i>           | (Optional)                               |
| <i>multihop</i>              | (Optional)                               |
| <i>holdtime</i>              | (Optional)                               |
| <i>keepalive</i>             | (Optional)                               |
| <i>dscp</i>                  | (Optional)                               |
| <i>routemapin</i>            | (Optional)                               |
| <i>routemapout</i>           | (Optional)                               |
| <i>filterlistin</i>          | (Optional)                               |



|                       |            |
|-----------------------|------------|
| <i>filterlistout</i>  | (Optional) |
| <i>prefixlistin</i>   | (Optional) |
| <i>prefixlistout</i>  | (Optional) |
| <i>maxprefixlimit</i> | (Optional) |
| <i>defaultorigin</i>  | (Optional) |
| TABLE_vrf             | (Optional) |
| <i>vrf-name</i>       | (Optional) |
| TABLE_peer            | (Optional) |
| <i>inheritingpeer</i> | (Optional) |

**Command Mode**

- /exec

## show bgp prefix-list

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } } prefix-list { <prfxlist-name> | <test_pol_name> } [ vrf { <vrf-name>
| <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out>
TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [
<rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } ] [ <prefixversion>
<totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [
<table-map-filtered> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [
<mpath> ] ] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> {
<ipnexthop> | <ipv6nexthop> } { <inlabel> <outlabel> <vpn> <hold_down> } } { <weight> <aspath>
<origin> [ <metric> ] [ <localpref> ] } } } | [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted>
<pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath> <pathnolabelednrh> ] [ <importsourc>
[ <originalimportsourc> ] ] [ <importdestscount> ] [ TABLE_importdests <importdest> ] [ <existpath> ] [
<aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> }
<neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator> <aggregators> <atomicaggregate>
] [ <inlabel> ] [ <originflag> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity
<extcommunity> } ] [ <originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime>
<flaps> <flaptime> <flapflags> <flapindex> <flaphalflife> <flapreuse> <flapsuppress> <flapmax> ] [
<con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx>
] [ <psid_v6sid_len> <psid_v6sid> ] [ <psid_origrsrgb_len> <psid_origrsrgb_flag> <psid_origrsrgb_base>
<psid_origrsrgb_end> ] ] [ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ]
[ <evpn-esi> ] [ <link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> ] } } [ TABLE_advertisedto
<advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                      |
| bgp                   | Display BGP status and configuration                 |
| vrf                   | (Optional) Virtual Router Context                    |
| <i>vrf-name</i>       | (Optional) VRF name                                  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                            |
| prefix-list           | Display routes matching the prefix-list              |
| <i>prfxlist-name</i>  | Name of prefix-list                                  |
| <i>test_pol_name</i>  | An existing test-list policy                         |
| ipv4                  | Display BGP information for IPv4 address family      |
| ipv6                  | Display BGP information for IPv6 address family      |
| unicast               | Display BGP information for unicast address family   |
| multicast             | Display BGP information for multicast address family |
| __readonly__          | (Optional)   |

|                      |            |
|----------------------|------------|
| TABLE_vrf            | (Optional) |
| <i>vrf-name-out</i>  | (Optional) |
| TABLE_afi            | (Optional) |
| <i>afi</i>           | (Optional) |
| TABLE_safi           | (Optional) |
| <i>safi</i>          | (Optional) |
| <i>af-name</i>       | (Optional) |
| <i>table-version</i> | (Optional) |
| <i>router-id</i>     | (Optional) |
| TABLE_rd             | (Optional) |
| <i>rd_val</i>        | (Optional) |
| <i>rd_vrf</i>        | (Optional) |
| <i>rd_vniid</i>      | (Optional) |
| TABLE_prefix         | (Optional) |
| <i>ipprefix</i>      | (Optional) |
| <i>nonipprefix</i>   | (Optional) |
| <i>totalpaths</i>    | (Optional) |
| <i>bestpathnr</i>    | (Optional) |
| <i>mpath</i>         | (Optional) |
| TABLE_advertisedto   | (Optional) |
| <i>advertisedto</i>  | (Optional) |
| TABLE_scheduledto    | (Optional) |
| <i>scheduledto</i>   | (Optional) |
| <i>prefixversion</i> | (Optional) |
| <i>on-newlist</i>    | (Optional) |
| <i>on-xmitlist</i>   | (Optional) |
| <i>suppressed</i>    | (Optional) |
| <i>needsresync</i>   | (Optional) |
| <i>locked</i>        | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>table-map-filtered</i>   | (Optional) |
| <i>export-on-newlist</i>    | (Optional) |
| <i>export-on-xmitlist</i>   | (Optional) |
| <i>locallabel</i>           | (Optional) |
| <i>labelhldwstr</i>         | (Optional) |
| TABLE_path                  | (Optional) |
| <i>pathnr</i>               | (Optional) |
| <i>best</i>                 | (Optional) |
| <i>status</i>               | (Optional) |
| <i>type</i>                 | (Optional) |
| <i>statuscode</i>           | (Optional) |
| <i>bestcode</i>             | (Optional) |
| <i>typecode</i>             | (Optional) |
| <i>ipnexthop</i>            | (Optional) |
| <i>neighbor</i>             | (Optional) |
| <i>neighborid</i>           | (Optional) |
| <i>metric</i>               | (Optional) |
| <i>localpref</i>            | (Optional) |
| <i>weight</i>               | (Optional) |
| <i>importsource</i>         | (Optional) |
| <i>originalimportsource</i> | (Optional) |
| <i>importdestscount</i>     | (Optional) |
| TABLE_importdests           | (Optional) |
| <i>importdest</i>           | (Optional) |
| <i>existpath</i>            | (Optional) |
| <i>aspath</i>               | (Optional) |
| <i>origin</i>               | (Optional) |
| <i>source</i>               | (Optional) |
| <i>policyincomplete</i>     | (Optional) |

|                           |            |
|---------------------------|------------|
| <i>pathvalid</i>          | (Optional) |
| <i>pathbest</i>           | (Optional) |
| <i>pathdeleted</i>        | (Optional) |
| <i>pathstaled</i>         | (Optional) |
| <i>pathhistory</i>        | (Optional) |
| <i>pathmultipath</i>      | (Optional) |
| <i>pathovermaxaslimit</i> | (Optional) |
| <i>pathnolabeledrn</i>    | (Optional) |
| <i>nexthopmetric</i>      | (Optional) |
| <i>aggregator</i>         | (Optional) |
| <i>aggregatoras</i>       | (Optional) |
| <i>atomicaggregate</i>    | (Optional) |
| <i>inlabel</i>            | (Optional) |
| <i>originflag</i>         | (Optional) |
| <i>vpn</i>                | (Optional) |
| <i>hold_down</i>          | (Optional) |
| <i>outlabel</i>           | (Optional) |
| <i>flappenalty</i>        | (Optional) |
| <i>dampenedtime</i>       | (Optional) |
| <i>flaps</i>              | (Optional) |
| <i>flaptime</i>           | (Optional) |
| <i>flapflags</i>          | (Optional) |
| <i>flapindex</i>          | (Optional) |
| <i>flaphalflife</i>       | (Optional) |
| <i>flapreuse</i>          | (Optional) |
| <i>flapsuppress</i>       | (Optional) |
| <i>flapmax</i>            | (Optional) |
| <i>con_type</i>           | (Optional) |
| <i>con_len</i>            | (Optional) |

|                            |            |
|----------------------------|------------|
| <i>con_rd</i>              | (Optional) |
| <i>con_ip</i>              | (Optional) |
| <i>mdt_grp_addr</i>        | (Optional) |
| <i>evpn-esi</i>            | (Optional) |
| <i>link-state-attr</i>     | (Optional) |
| <i>link-state-attr-len</i> | (Optional) |
| TABLE_community            | (Optional) |
| <i>community</i>           | (Optional) |
| TABLE_extcommunity         | (Optional) |
| <i>extcommunity</i>        | (Optional) |
| <i>originatorid</i>        | (Optional) |
| TABLE_clusterlist          | (Optional) |
| <i>clusterlist</i>         | (Optional) |
| <i>remotenh</i>            | (Optional) |
| <i>remotenh_encap</i>      | (Optional) |
| <i>remotenh_vnid</i>       | (Optional) |
| <i>remotenh_mac</i>        | (Optional) |
| <i>pmsi</i>                | (Optional) |
| <i>psid_len</i>            | (Optional) |
| <i>psid_lindx_len</i>      | (Optional) |
| <i>psid_lindx_flag</i>     | (Optional) |
| <i>psid_lindx</i>          | (Optional) |
| <i>psid_v6sid_len</i>      | (Optional) |
| <i>psid_origsrgb_len</i>   | (Optional) |
| <i>psid_origsrgb_flag</i>  | (Optional) |
| <i>psid_origsrgb_base</i>  | (Optional) |
| <i>psid_origsrgb_end</i>   | (Optional) |

**Command Mode**

- /exec

## show bgp private attr

```
show bgp private attr [ remote-nh ] [ [ [ ipv4 { unicast | multicast } <ip-prefix> ] | [ ipv6 { unicast | multicast } <ipv6-prefix> ] ] [ detail ] ]
```

### Syntax Description

|                  |   |
|------------------|---|
| show             | Show running system information                                 |
| bgp              | Display BGP status and configuration                            |
| private          | Show BGP information intended for developer eyes only           |
| attr             | Show BGP attributes   |
| remote-nh        | (Optional) Show Remote NH Attr                                  |
| ipv4             | (Optional) Display BGP information for IPv4 address family      |
| ipv6             | (Optional) Display BGP information for IPv6 address family      |
| unicast          | (Optional) Display BGP information for unicast address family   |
| multicast        | (Optional) Display BGP information for multicast address family |
| detail           | (Optional) Show detailed info                                   |
| <i>ip-prefix</i> | (Optional) Show attribute for a prefix                          |

### Command Mode

- /exec

# show bgp private debug history

show bgp private debug history { all | ead-es | es | mac }

## Syntax Description

|         |   |
|---------|---|
| show    | Show running system information                       |
| bgp     | Display BGP status and configuration                  |
| private | Show BGP information intended for developer eyes only |
| debug   | Debug   |
| history | history   |
| all     | all   |
| ead-es  | ead-es  |
| es      | es  |
| mac     | mac   |

## Command Mode

- /exec



## show bgp process

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] process [ detail ] [
vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ [ <processid>
<protocolstartedreason> <protocoltag> <protocolstate> <isolatemode> <gshut-aware> <gshut-activate> [
<gshut-map> ] <mmode> <memorystate> [ <mallocmemorystate> ] [ <platformmemorystate> ] [
<lowmemorytimer> ] [ <issu> ] <forwardingstatesaved> <asformat> [ <fabricsoo> ] [ <srgbmin> <srgbmax>
] [ <epeconfiguredpeers> <epeactivepeers> ] <attributeentries> <hwmattributeentries> <bytesused>
<entriespendingdelete> <hwmentriespendingdelete> <pathsperattribute> <aspathentries> <aspathbytes> ]
TABLE_vrf <vrf-name-out> [ <vrf-id> ] [ <vrf-state> ] [ <vrf-state-rsn> ] [ <vrf-delete-pending> ] [
<vrf-evpn-mpls> ] [ <vrf-vni-id> ] [ <vrf-vni-id-valid> ] [ <vrf-topo-id> ] [ <vrf-encap-type> ] [ <vrf-vtep-ip>
] [ <vrf-vtep-virtual-ip> ] [ <vrf-vtep-vipr> ] [ <vrf-router-mac> ] [ <vrf-vip-router-mac> ] [
<vrf-vipr-router-mac> ] [ <vrf-router-id> ] [ <vrf-cfgd-id> ] [ <vrf-local-as> ] [ <vrf-confed-id> ] [
<vrf-cluster-id> ] [ <vrf-reconnect-interval> ] [ <vrf-peers> ] [ <vrf-pending-peers> ] [ <vrf-est-peers> ] [
<vrf-cfgd-max-as-limit> ] [ <vrf-max-as-limit> ] [ <vrf-rd-configured> ] [ <vrf-rd> ] [ <vrf-pending-rd> ] {
TABLE_af <af-id> [ <af-name> ] [ <af-table-id> ] [ <af-state> ] [ <af-state-rsn> ] [ <af-num-peers> ] [
<af-num-active-peers> ] [ <af-peer-routes> ] [ <af-peer-paths> ] [ <af-peer-networks> ] [ <af-peer-aggregates>
] [ <af-export-rmap> ] [ <af-import-rmap> ] [ <af-retain-rt> ] [ { TABLE_redist <protocol> <route-map> }
] <wait-igp-convergence> [ { TABLE_add_paths_selection <route-map> } ] [ TABLE_export_rt <export-rt>
] [ TABLE_import_rt <import-rt> ] [ TABLE_evpn_export_rt <evpn-export-rt> ] [ TABLE_evpn_import_rt
<evpn-import-rt> ] [ TABLE_mvpn_export_rt <mvpn-export-rt> ] [ TABLE_mvpn_import_rt <mvpn-import-rt>
] [ <af-label-mode> ] [ <af-aggregate-label> ] [ <srv6-alloc-mode> ] [ <srv6-end-function> ] [
<importdefault_prefixlimit> <importdefault_prefixcount> <importdefault_map> <importdefault_advertisevpn>
] <import_vrf_advertisevpn> [ <exportdefault_prefixlimit> <exportdefault_prefixcount> <exportdefault_map>
<exportdefault_allowvpn> ] <export_vrf_allowvpn> <af-rr> <default-information-enabled> [
<default-information-rd> <default-information-rt> ] <nexthop-trigger-delay-critical>
<nexthop-trigger-delay-non-critical> [ <nexthop-route-map> ] } ]
```

### Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information           |
| bgp                          | Display BGP status and configuration      |
| process                      | BGP global information                    |
| detail                       | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| vrf                          | (Optional) Virtual Router Context         |
| <i>vrf-name</i>              | (Optional) VRF name                       |
| <i>vrf-known-name</i>        | (Optional) Known VRF name                 |
| <i>__readonly__</i>          | (Optional) Read Only                      |
| <i>processid</i>             | (Optional)                                |
| <i>protocolstartedreason</i> | (Optional)                                |
| <i>protocoltag</i>           | (Optional)                                |
| <i>protocolstate</i>         | (Optional)                                |

|                                |                      |
|--------------------------------|----------------------|
| <i>isolatemode</i>             | (Optional)           |
| <i>gshut-aware</i>             | (Optional)           |
| <i>gshut-activate</i>          | (Optional)           |
| <i>gshut-map</i>               | (Optional)           |
| <i>mmode</i>                   | (Optional)           |
| <i>memorystate</i>             | (Optional)           |
| <i>mallocmemorystate</i>       | (Optional)           |
| <i>platformmemorystate</i>     | (Optional)           |
| <i>lowmemorytimer</i>          | (Optional)           |
| <i>issu</i>                    | (Optional)           |
| <i>forwardingstatesaved</i>    | (Optional)           |
| <i>asformat</i>                | (Optional)           |
| <i>attributeentries</i>        | (Optional)           |
| <i>fabricsoo</i>               | (Optional)           |
| <i>srgbmin</i>                 | (Optional)           |
| <i>srgbmax</i>                 | (Optional)           |
| <i>epeconfiguredpeers</i>      | (Optional)           |
| <i>epeactivepeers</i>          | (Optional)           |
| <i>hwmattributeentries</i>     | (Optional)           |
| <i>bytesused</i>               | (Optional)           |
| <i>entriespendingdelete</i>    | (Optional)           |
| <i>hwmentriespendingdelete</i> | (Optional)           |
| <i>pathsperattribute</i>       | (Optional)           |
| <i>aspathentries</i>           | (Optional)           |
| <i>aspathbytes</i>             | (Optional)           |
| TABLE_vrf                      | (Optional)           |
| <i>vrf-name-out</i>            | (Optional) VRF name  |
| <i>vrf-id</i>                  | (Optional) VRF ID    |
| <i>vrf-state</i>               | (Optional) VRF State |

|                               |   |
|-------------------------------|---|
| <i>vrf-state-rsn</i>          | (Optional) VRF State Reason                       |
| <i>vrf-delete-pending</i>     | (Optional) VRF delete pending                     |
| <i>vrf-evpn-mps</i>           | (Optional) VRF EVPN L3 MPLS                       |
| <i>vrf-vni-id</i>             | (Optional) VRF VNI ID                             |
| <i>vrf-vni-id-valid</i>       | (Optional) VRF VNI ID validity                    |
| <i>vrf-topo-id</i>            | (Optional) VRF Topo ID                            |
| <i>vrf-encap-type</i>         | (Optional) VRF encapsulation type                 |
| <i>vrf-vtep-ip</i>            | (Optional) VRF VTEP IP                            |
| <i>vrf-vtep-virtual-ip</i>    | (Optional) VRF VTEP Virtual IP                    |
| <i>vrf-vtep-vipr</i>          | (Optional) VRF VTEP Virtual IP for Re-origination |
| <i>vrf-router-mac</i>         | (Optional) VRF Router MAC                         |
| <i>vrf-vip-router-mac</i>     | (Optional) VRF VIP Router MAC                     |
| <i>vrf-vipr-router-mac</i>    | (Optional) VRF VIPR Router MAC                    |
| <i>vrf-router-id</i>          | (Optional) Router ID                              |
| <i>vrf-cfgd-id</i>            | (Optional) Configured Router-ID                   |
| <i>vrf-local-as</i>           | (Optional) Local AS                               |
| <i>vrf-confed-id</i>          | (Optional) Cluster-ID                             |
| <i>vrf-cluster-id</i>         | (Optional) Cluster-ID                             |
| <i>vrf-reconnect-interval</i> | (Optional) VRF reconnect interval                 |
| <i>vrf-peers</i>              | (Optional) No. of configured peers                |
| <i>vrf-pending-peers</i>      | (Optional) No. of pending peers                   |
| <i>vrf-est-peers</i>          | (Optional) No. of established peers               |
| <i>vrf-cfgd-max-as-limit</i>  | (Optional) Configured maxas-limit                 |
| <i>vrf-max-as-limit</i>       | (Optional) Active maxas-limit                     |
| <i>vrf-rd-configured</i>      | (Optional) VRF RD Configured                      |
| <i>vrf-rd</i>                 | (Optional) VRF RD                                 |
| <i>vrf-pending-rd</i>         | (Optional) VRF pending RD                         |
| TABLE_af                      | (Optional)  |
| <i>af-id</i>                  | (Optional) AF ID                                  |

|                             |                                     |
|-----------------------------|-------------------------------------|
| <i>af-table-id</i>          | (Optional) AF table                 |
| <i>af-name</i>              | (Optional) AF table name            |
| <i>af-state</i>             | (Optional) AF table state           |
| <i>af-state-rsn</i>         | (Optional) AF table state reason    |
| <i>af-num-peers</i>         | (Optional) No. of peers             |
| <i>af-num-active-peers</i>  | (Optional) No. of active peers      |
| <i>af-peer-routes</i>       | (Optional) No. of peer routes       |
| <i>af-peer-paths</i>        | (Optional) No. of peer paths        |
| <i>af-peer-networks</i>     | (Optional) No. of peer networks     |
| <i>af-peer-aggregates</i>   | (Optional) No. of aggregates        |
| <i>af-export-rmap</i>       | (Optional) Export route-map         |
| <i>af-import-rmap</i>       | (Optional) Import route-map         |
| <i>af-retain-rt</i>         | (Optional) Retain RT                |
| TABLE_redist                | (Optional)                          |
| <i>protocol</i>             | (Optional) Protocol                 |
| <i>route-map</i>            | (Optional) Route Map                |
| <i>wait-igp-convergence</i> | (Optional)                          |
| TABLE_add_paths_selection   | (Optional)                          |
| <i>route-map</i>            | (Optional) Route Map                |
| TABLE_export_rt             | (Optional)                          |
| <i>export-rt</i>            | (Optional) Export route-target      |
| TABLE_import_rt             | (Optional)                          |
| <i>import-rt</i>            | (Optional) Import route-target      |
| TABLE_evpn_export_rt        | (Optional)                          |
| <i>evpn-export-rt</i>       | (Optional) Export EVPN route-target |
| TABLE_evpn_import_rt        | (Optional)                          |
| <i>evpn-import-rt</i>       | (Optional) Import EVPN route-target |
| TABLE_mvpn_export_rt        | (Optional)                          |
| <i>mvpn-export-rt</i>       | (Optional) Export MVPN route-target |

|   |   |
|---|---|
| TABLE_mvpn_import_rt                      | (Optional)  |
| <i>mvpn-import-rt</i>                     | (Optional) Import MVPN route-target                 |
| <i>af-label-mode</i>                      | (Optional) Label allocation mode                    |
| <i>af-aggregate-label</i>                 | (Optional) Aggregate Label                          |
| <i>srv6-alloc-mode</i>                    | (Optional) Srv6 sid allocation mode                 |
| <i>srv6-end-function</i>                  | (Optional) Srv6 sid end function                    |
| <i>importdefault_prefixlimit</i>          | (Optional) Maximum number of prefixes allowed       |
| <i>importdefault_prefixcount</i>          | (Optional) Current number of prefixes               |
| <i>importdefault_map</i>                  | (Optional) Configured route-map                     |
| <i>importdefault_advertisevpn</i>         | (Optional) Advertise-vpn is enabled                 |
| <i>import_vrf_advertisevpn</i>            | (Optional) Advertise-vpn is enabled                 |
| <i>exportdefault_prefixlimit</i>          | (Optional) Maximum number of prefixes allowed       |
| <i>exportdefault_prefixcount</i>          | (Optional) Current number of prefixes               |
| <i>exportdefault_map</i>                  | (Optional) Configured route-map                     |
| <i>exportdefault_allowvpn</i>             | (Optional) Allow-vpn is enabled                     |
| <i>export_vrf_allowvpn</i>                | (Optional) Allow-vpn is enabled                     |
| <i>af-rr</i>                              | (Optional) Is a Route-reflector                     |
| <i>default-information-enabled</i>        | (Optional) Default-information originate is enabled |
| <i>default-information-rd</i>             | (Optional) Default-information originate RD         |
| <i>default-information-rt</i>             | (Optional) Default-information originate RT         |
| <i>nexthop-trigger-delay-critical</i>     | (Optional)  |
| <i>nexthop-trigger-delay-non-critical</i> | (Optional)  |
| <i>nexthop-route-map</i>                  | (Optional)  |

### Command Mode

- /exec

## show bgp received-paths

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | ipv4 mdt [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> }
] | vpnv4 unicast [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | vpnv6 unicast [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv6 labeled-unicast | link-state | l2vpn vpls [ rd {
<ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 mvpn [ rd { <ext-comm-rd-aa2nn4> |
<ext-comm-rd-aa4nn2> } ] | ipv6 mvpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | l2vpn
evpn [ rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] | ipv4 labeled-unicast | all } received-paths
[ private ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi <safi> <af-name> [ <table-version> <router-id>
] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [ TABLE_prefix { <ipprefix> | <ipv6prefix> |
<nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [ <on-newlist> <on-xmitlist> <suppressed>
<needsresync> <locked> ] [ <table-map-filtered> ] [ <export-on-newlist> <export-on-xmitlist> ] [ <locallabel>
] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path <pathnr> { { <status> <best> <type> <statuscode>
<bestcode> <typecode> { <ipnexthop> | <ipv6nexthop> } { { <inlabel> <outlabel> <vpn> <hold_down> }
| { <weight> <aspath> <origin> [ <metric> ] [ <localpref> ] } } } | { <policyincomplete> <pathvalid>
<pathbest> <pathdeleted> <pathstaled> <pathhistory> <pathovermaxaslimit> <pathmultipath>
<pathnolabeledrn> ] [ <importsource> [ <originalimportsource> ] ] [ <importdstscount> ] [
TABLE_importdsts <importdest> ] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop>
} <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight>
[ <aggregator> <aggregators> <atomicaggregate> ] [ <inlabel> ] [ <originflag> ] [ { TABLE_community
<community> } ] [ { TABLE_extcommunity <extcommunity> } ] [ <originatorid> { TABLE_clusterlist
<clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime> <flapflags> <flapindex> <flaphalflife>
<flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len> <con_rd> <con_ip> ] [ <psid_len> [
<psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len> <psid_v6sid> ] [ <psid_origrsrgb_len>
<psid_origrsrgb_flag> <psid_origrsrgb_base> <psid_origrsrgb_end> ] ] [ <remotenh> <remotenh_encap>
<remotenh_vnid> <remotenh_mac> ] [ <pmsti> ] [ <evpn-esi> ] [ <link-state-attr> <link-state-attr-len> ] [
<mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [ TABLE_scheduledto <scheduledto> ] ] ]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                              |
| bgp                       | Display BGP status and configuration                         |
| vrf                       | (Optional) Virtual Router Context                            |
| <i>vrf-name</i>           | (Optional) VRF name  |
| <i>vrf-known-name</i>     | (Optional) Known VRF name                                    |
| received-paths            | Display paths stored for soft-reconfig                       |
| rd                        | (Optional) Display information for a route distinguisher     |
| <i>ext-comm-rd-aa4nn2</i> | (Optional) VPN route distinguisher in aa4:nn or ip:nn format |
| <i>ext-comm-rd-aa2nn4</i> | (Optional) VPN route distinguisher in aa:nn format           |
| ipv4                      | Display BGP information for IPv4 address family              |

|                      |  |
|----------------------|--|
| ipv6                 | Display BGP information for IPv6 address family            |
| vpnv4                | Display BGP information for VPNv4 address family           |
| vpnv6                | Display BGP information for VPNv6 address family           |
| unicast              | Display BGP information for unicast address family         |
| multicast            | Display BGP information for multicast address family       |
| mdt                  | Display BGP information for multicast distribution tree    |
| labeled-unicast      | Display BGP information for labeled-unicast address family |
| link-state           | Display BGP information for link-state address family      |
| l2vpn                | Display BGP information for L2VPN address family           |
| vpls                 | Display BGP information for L2VPN VPLS address family      |
| mvpn                 | Display BGP information for MVPN address family            |
| evpn                 | Display BGP information for L2VPN EVPN address family      |
| all                  | Display BGP information for all address families           |
| private              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                  |
| <u>__readonly__</u>  | (Optional)   |
| TABLE_vrf            | (Optional)   |
| <i>vrf-name-out</i>  | (Optional)   |
| TABLE_afi            | (Optional)   |
| <i>afi</i>           | (Optional)   |
| TABLE_safi           | (Optional)   |
| <i>safi</i>          | (Optional)   |
| <i>af-name</i>       | (Optional)   |
| <i>table-version</i> | (Optional)   |
| <i>router-id</i>     | (Optional)   |
| TABLE_rd             | (Optional)   |
| <i>rd_val</i>        | (Optional)   |
| <i>rd_vrf</i>        | (Optional)   |
| <i>rd_vniid</i>      | (Optional)   |
| TABLE_prefix         | (Optional)   |

## show bgp received-paths

|                            |            |
|----------------------------|------------|
| <i>ipprefix</i>            | (Optional) |
| <i>nonipprefix</i>         | (Optional) |
| <i>totalpaths</i>          | (Optional) |
| <i>bestpathnr</i>          | (Optional) |
| <i>mpath</i>               | (Optional) |
| TABLE_ <i>advertisedto</i> | (Optional) |
| <i>advertisedto</i>        | (Optional) |
| TABLE_ <i>scheduledto</i>  | (Optional) |
| <i>scheduledto</i>         | (Optional) |
| <i>prefixversion</i>       | (Optional) |
| <i>on-newlist</i>          | (Optional) |
| <i>on-xmitlist</i>         | (Optional) |
| <i>suppressed</i>          | (Optional) |
| <i>needsresync</i>         | (Optional) |
| <i>locked</i>              | (Optional) |
| <i>table-map-filtered</i>  | (Optional) |
| <i>export-on-newlist</i>   | (Optional) |
| <i>export-on-xmitlist</i>  | (Optional) |
| <i>locallabel</i>          | (Optional) |
| <i>labelhldwstr</i>        | (Optional) |
| TABLE_ <i>path</i>         | (Optional) |
| <i>pathnr</i>              | (Optional) |
| <i>best</i>                | (Optional) |
| <i>status</i>              | (Optional) |
| <i>type</i>                | (Optional) |
| <i>statuscode</i>          | (Optional) |
| <i>bestcode</i>            | (Optional) |
| <i>typecode</i>            | (Optional) |
| <i>ipnexthop</i>           | (Optional) |



|                             |            |
|-----------------------------|------------|
| <i>neighbor</i>             | (Optional) |
| <i>neighborid</i>           | (Optional) |
| <i>metric</i>               | (Optional) |
| <i>localpref</i>            | (Optional) |
| <i>weight</i>               | (Optional) |
| <i>importsource</i>         | (Optional) |
| <i>originalimportsource</i> | (Optional) |
| <i>importdestscount</i>     | (Optional) |
| TABLE_importdests           | (Optional) |
| <i>importdest</i>           | (Optional) |
| <i>existpath</i>            | (Optional) |
| <i>aspath</i>               | (Optional) |
| <i>origin</i>               | (Optional) |
| <i>source</i>               | (Optional) |
| <i>policyincomplete</i>     | (Optional) |
| <i>pathvalid</i>            | (Optional) |
| <i>pathbest</i>             | (Optional) |
| <i>pathdeleted</i>          | (Optional) |
| <i>pathstaled</i>           | (Optional) |
| <i>pathhistory</i>          | (Optional) |
| <i>pathmultipath</i>        | (Optional) |
| <i>pathovermaxaslimit</i>   | (Optional) |
| <i>pathnolabeledrn</i>      | (Optional) |
| <i>nexthopmetric</i>        | (Optional) |
| <i>aggregator</i>           | (Optional) |
| <i>aggregatoras</i>         | (Optional) |
| <i>atomicaggregate</i>      | (Optional) |
| <i>inlabel</i>              | (Optional) |
| <i>originflag</i>           | (Optional) |

|                            |            |
|----------------------------|------------|
| <i>vpn</i>                 | (Optional) |
| <i>hold_down</i>           | (Optional) |
| <i>outlabel</i>            | (Optional) |
| <i>flappenalty</i>         | (Optional) |
| <i>dampenedtime</i>        | (Optional) |
| <i>flaps</i>               | (Optional) |
| <i>flaptime</i>            | (Optional) |
| <i>flapflags</i>           | (Optional) |
| <i>flapindex</i>           | (Optional) |
| <i>flaphalflife</i>        | (Optional) |
| <i>flapreuse</i>           | (Optional) |
| <i>flapsuppress</i>        | (Optional) |
| <i>flapmax</i>             | (Optional) |
| <i>con_type</i>            | (Optional) |
| <i>con_len</i>             | (Optional) |
| <i>con_rd</i>              | (Optional) |
| <i>con_ip</i>              | (Optional) |
| <i>mdt_grp_addr</i>        | (Optional) |
| <i>evpn-esi</i>            | (Optional) |
| <i>link-state-attr</i>     | (Optional) |
| <i>link-state-attr-len</i> | (Optional) |
| TABLE_community            | (Optional) |
| <i>community</i>           | (Optional) |
| TABLE_extcommunity         | (Optional) |
| <i>extcommunity</i>        | (Optional) |
| <i>originatorid</i>        | (Optional) |
| TABLE_clusterlist          | (Optional) |
| <i>clusterlist</i>         | (Optional) |
| <i>remotenh</i>            | (Optional) |

|                           |            |
|---------------------------|------------|
| <i>remotenh_encap</i>     | (Optional) |
| <i>remotenh_vnid</i>      | (Optional) |
| <i>remotenh_mac</i>       | (Optional) |
| <i>pmsi</i>               | (Optional) |
| <i>psid_len</i>           | (Optional) |
| <i>psid_lindx_len</i>     | (Optional) |
| <i>psid_lindx_flag</i>    | (Optional) |
| <i>psid_lindx</i>         | (Optional) |
| <i>psid_v6sid_len</i>     | (Optional) |
| <i>psid_origsrgb_len</i>  | (Optional) |
| <i>psid_origsrgb_flag</i> | (Optional) |
| <i>psid_origsrgb_base</i> | (Optional) |
| <i>psid_origsrgb_end</i>  | (Optional) |

**Command Mode**

- /exec



|                      |            |
|----------------------|------------|
| TABLE_vrf            | (Optional) |
| <i>vrf-name-out</i>  | (Optional) |
| TABLE_afi            | (Optional) |
| <i>afi</i>           | (Optional) |
| TABLE_safi           | (Optional) |
| <i>safi</i>          | (Optional) |
| <i>af-name</i>       | (Optional) |
| <i>table-version</i> | (Optional) |
| <i>router-id</i>     | (Optional) |
| TABLE_rd             | (Optional) |
| <i>rd_val</i>        | (Optional) |
| <i>rd_vrf</i>        | (Optional) |
| <i>rd_vniid</i>      | (Optional) |
| TABLE_prefix         | (Optional) |
| <i>ipprefix</i>      | (Optional) |
| <i>nonipprefix</i>   | (Optional) |
| <i>totalpaths</i>    | (Optional) |
| <i>bestpathnr</i>    | (Optional) |
| <i>mpath</i>         | (Optional) |
| TABLE_advertisedto   | (Optional) |
| <i>advertisedto</i>  | (Optional) |
| TABLE_scheduledto    | (Optional) |
| <i>scheduledto</i>   | (Optional) |
| <i>prefixversion</i> | (Optional) |
| <i>on-newlist</i>    | (Optional) |
| <i>on-xmitlist</i>   | (Optional) |
| <i>suppressed</i>    | (Optional) |
| <i>needsresync</i>   | (Optional) |
| <i>locked</i>        | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>table-map-filtered</i>   | (Optional) |
| <i>export-on-newlist</i>    | (Optional) |
| <i>export-on-xmitlist</i>   | (Optional) |
| <i>locallabel</i>           | (Optional) |
| <i>labelhldwstr</i>         | (Optional) |
| TABLE_path                  | (Optional) |
| <i>pathnr</i>               | (Optional) |
| <i>best</i>                 | (Optional) |
| <i>status</i>               | (Optional) |
| <i>type</i>                 | (Optional) |
| <i>statuscode</i>           | (Optional) |
| <i>bestcode</i>             | (Optional) |
| <i>typecode</i>             | (Optional) |
| <i>ipnexthop</i>            | (Optional) |
| <i>neighbor</i>             | (Optional) |
| <i>neighborid</i>           | (Optional) |
| <i>metric</i>               | (Optional) |
| <i>localpref</i>            | (Optional) |
| <i>weight</i>               | (Optional) |
| <i>importsource</i>         | (Optional) |
| <i>originalimportsource</i> | (Optional) |
| <i>importdestscount</i>     | (Optional) |
| TABLE_importdests           | (Optional) |
| <i>importdest</i>           | (Optional) |
| <i>existpath</i>            | (Optional) |
| <i>aspath</i>               | (Optional) |
| <i>origin</i>               | (Optional) |
| <i>source</i>               | (Optional) |
| <i>policyincomplete</i>     | (Optional) |

|                           |            |
|---------------------------|------------|
| <i>pathvalid</i>          | (Optional) |
| <i>pathbest</i>           | (Optional) |
| <i>pathdeleted</i>        | (Optional) |
| <i>pathstaled</i>         | (Optional) |
| <i>pathhistory</i>        | (Optional) |
| <i>pathmultipath</i>      | (Optional) |
| <i>pathovermaxaslimit</i> | (Optional) |
| <i>pathnolabeledrn</i>    | (Optional) |
| <i>nexthopmetric</i>      | (Optional) |
| <i>aggregator</i>         | (Optional) |
| <i>aggregatoras</i>       | (Optional) |
| <i>atomicaggregate</i>    | (Optional) |
| <i>inlabel</i>            | (Optional) |
| <i>originflag</i>         | (Optional) |
| <i>vpn</i>                | (Optional) |
| <i>hold_down</i>          | (Optional) |
| <i>outlabel</i>           | (Optional) |
| <i>flappenaity</i>        | (Optional) |
| <i>dampenedtime</i>       | (Optional) |
| <i>flaps</i>              | (Optional) |
| <i>flaptime</i>           | (Optional) |
| <i>flapflags</i>          | (Optional) |
| <i>flapindex</i>          | (Optional) |
| <i>flaphalflife</i>       | (Optional) |
| <i>flapreuse</i>          | (Optional) |
| <i>flapsuppress</i>       | (Optional) |
| <i>flapmax</i>            | (Optional) |
| <i>con_type</i>           | (Optional) |
| <i>con_len</i>            | (Optional) |

|                            |            |
|----------------------------|------------|
| <i>con_rd</i>              | (Optional) |
| <i>con_ip</i>              | (Optional) |
| <i>mdt_grp_addr</i>        | (Optional) |
| <i>evpn-esi</i>            | (Optional) |
| <i>link-state-attr</i>     | (Optional) |
| <i>link-state-attr-len</i> | (Optional) |
| TABLE_community            | (Optional) |
| <i>community</i>           | (Optional) |
| TABLE_extcommunity         | (Optional) |
| <i>extcommunity</i>        | (Optional) |
| <i>originatorid</i>        | (Optional) |
| TABLE_clusterlist          | (Optional) |
| <i>clusterlist</i>         | (Optional) |
| <i>remotenh</i>            | (Optional) |
| <i>remotenh_encap</i>      | (Optional) |
| <i>remotenh_vnid</i>       | (Optional) |
| <i>remotenh_mac</i>        | (Optional) |
| <i>pmsi</i>                | (Optional) |
| <i>psid_len</i>            | (Optional) |
| <i>psid_lindx_len</i>      | (Optional) |
| <i>psid_lindx_flag</i>     | (Optional) |
| <i>psid_lindx</i>          | (Optional) |
| <i>psid_v6sid_len</i>      | (Optional) |
| <i>psid_origsrgb_len</i>   | (Optional) |
| <i>psid_origsrgb_flag</i>  | (Optional) |
| <i>psid_origsrgb_base</i>  | (Optional) |
| <i>psid_origsrgb_end</i>   | (Optional) |

**Command Mode**

- /exec



## show bgp self-originated

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | all } self-originated [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_afi <afi> TABLE_safi
<safi> <af-name> [ <table-version> <router-id> ] [ TABLE_rd [ <rd_val> [ <rd_vrf> ] [ <rd_vniid> ] ] [
TABLE_prefix { <ipprefix> | <ipv6prefix> | <nonipprefix> } [ <prefixversion> <totalpaths> <bestpathnr> [
<on-newlist> <on-xmitlist> <suppressed> <needsresync> <locked> ] [ <table-map-filtered> ] [
<export-on-newlist> <export-on-xmitlist> ] [ <locallabel> ] [ <labelhldwstr> ] [ <mpath> ] ] { TABLE_path
<pathnr> { { <status> <best> <type> <statuscode> <bestcode> <typecode> { <ipnexthop> | <ipv6nexthop>
} } { <inlabel> <outlabel> <vpn> <hold_down> } | { <weight> <aspath> <origin> [ <metric> ] [ <localpref>
] } } } | { [ <policyincomplete> <pathvalid> <pathbest> <pathdeleted> <pathstaled> <pathhistory>
<pathovermaxaslimit> <pathmultipath> <pathnolabeledrnh> ] [ <importsource> [ <originalimportsource> ]
] [ <importdestscout> ] [ TABLE_importdests <importdest> ] [ <existpath> ] [ <aspath> <source> ] {
<ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> | <ipv6neighbor> } <neighborid> <origin>
[ <metric> ] <localpref> <weight> [ <aggregator> <aggregators> <atomicaggregate> ] [ <inlabel> ] [
<originflag> ] [ { TABLE_community <community> } ] [ { TABLE_extcommunity <extcommunity> } ] [
<originatorid> { TABLE_clusterlist <clusterlist> } ] [ <flappenalty> <dampenedtime> <flaps> <flaptime>
<flapflags> <flapindex> <flaphalf-life> <flapreuse> <flapsuppress> <flapmax> ] [ <con_type> <con_len>
<con_rd> <con_ip> ] [ <psid_len> [ <psid_lindx_len> <psid_lindx_flag> <psid_lindx> ] [ <psid_v6sid_len>
<psid_v6sid> ] [ <psid_origrsgb_len> <psid_origrsgb_flag> <psid_origrsgb_base> <psid_origrsgb_end> ] ]
[ <remotenh> <remotenh_encap> <remotenh_vnid> <remotenh_mac> ] [ <pmsi> ] [ <evpn-esi> ] [
<link-state-attr> <link-state-attr-len> ] [ <mdt_grp_addr> ] } } ] [ TABLE_advertisedto <advertisedto> ] [
TABLE_scheduledto <scheduledto> ] ] ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                      |
| bgp                   | Display BGP status and configuration                 |
| vrf                   | (Optional) Virtual Router Context                    |
| <i>vrf-name</i>       | (Optional) VRF name                                  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                            |
| ipv4                  | Display BGP information for IPv4 address family      |
| ipv6                  | Display BGP information for IPv6 address family      |
| unicast               | Display BGP information for unicast address family   |
| multicast             | Display BGP information for multicast address family |
| all                   | Display BGP information for all address families     |
| self-originated       | Self originated routes                               |
| __readonly__          | (Optional)   |
| TABLE_vrf             | (Optional)   |

|                           |            |
|---------------------------|------------|
| <i>vrf-name-out</i>       | (Optional) |
| TABLE_afi                 | (Optional) |
| <i>afi</i>                | (Optional) |
| TABLE_safi                | (Optional) |
| <i>safi</i>               | (Optional) |
| <i>af-name</i>            | (Optional) |
| <i>table-version</i>      | (Optional) |
| <i>router-id</i>          | (Optional) |
| TABLE_rd                  | (Optional) |
| <i>rd_val</i>             | (Optional) |
| <i>rd_vrf</i>             | (Optional) |
| <i>rd_vniid</i>           | (Optional) |
| TABLE_prefix              | (Optional) |
| <i>ipprefix</i>           | (Optional) |
| <i>nonipprefix</i>        | (Optional) |
| <i>totalpaths</i>         | (Optional) |
| <i>bestpathnr</i>         | (Optional) |
| <i>mpath</i>              | (Optional) |
| TABLE_advertisedto        | (Optional) |
| <i>advertisedto</i>       | (Optional) |
| TABLE_scheduledto         | (Optional) |
| <i>scheduledto</i>        | (Optional) |
| <i>prefixversion</i>      | (Optional) |
| <i>on-newlist</i>         | (Optional) |
| <i>on-xmitlist</i>        | (Optional) |
| <i>suppressed</i>         | (Optional) |
| <i>needsresync</i>        | (Optional) |
| <i>locked</i>             | (Optional) |
| <i>table-map-filtered</i> | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>export-on-newlist</i>    | (Optional) |
| <i>export-on-xmitlist</i>   | (Optional) |
| <i>locallabel</i>           | (Optional) |
| <i>labelhldwstr</i>         | (Optional) |
| TABLE_path                  | (Optional) |
| <i>pathnr</i>               | (Optional) |
| <i>best</i>                 | (Optional) |
| <i>status</i>               | (Optional) |
| <i>type</i>                 | (Optional) |
| <i>statuscode</i>           | (Optional) |
| <i>bestcode</i>             | (Optional) |
| <i>typecode</i>             | (Optional) |
| <i>ipnexthop</i>            | (Optional) |
| <i>neighbor</i>             | (Optional) |
| <i>neighborid</i>           | (Optional) |
| <i>metric</i>               | (Optional) |
| <i>localpref</i>            | (Optional) |
| <i>weight</i>               | (Optional) |
| <i>importsource</i>         | (Optional) |
| <i>originalimportsource</i> | (Optional) |
| <i>importdstscount</i>      | (Optional) |
| TABLE_importdsts            | (Optional) |
| <i>importdest</i>           | (Optional) |
| <i>existpath</i>            | (Optional) |
| <i>aspath</i>               | (Optional) |
| <i>origin</i>               | (Optional) |
| <i>source</i>               | (Optional) |
| <i>policyincomplete</i>     | (Optional) |
| <i>pathvalid</i>            | (Optional) |

|                           |            |
|---------------------------|------------|
| <i>pathbest</i>           | (Optional) |
| <i>pathdeleted</i>        | (Optional) |
| <i>pathstaled</i>         | (Optional) |
| <i>pathhistory</i>        | (Optional) |
| <i>pathmultipath</i>      | (Optional) |
| <i>pathovermaxaslimit</i> | (Optional) |
| <i>pathnolabeledrn</i>    | (Optional) |
| <i>nexthopmetric</i>      | (Optional) |
| <i>aggregator</i>         | (Optional) |
| <i>aggregatoras</i>       | (Optional) |
| <i>atomicaggregate</i>    | (Optional) |
| <i>inlabel</i>            | (Optional) |
| <i>originflag</i>         | (Optional) |
| <i>vpn</i>                | (Optional) |
| <i>hold_down</i>          | (Optional) |
| <i>outlabel</i>           | (Optional) |
| <i>flappenalty</i>        | (Optional) |
| <i>dampenedtime</i>       | (Optional) |
| <i>flaps</i>              | (Optional) |
| <i>flaptime</i>           | (Optional) |
| <i>flapflags</i>          | (Optional) |
| <i>flapindex</i>          | (Optional) |
| <i>flaphalflife</i>       | (Optional) |
| <i>flapreuse</i>          | (Optional) |
| <i>flapsuppress</i>       | (Optional) |
| <i>flapmax</i>            | (Optional) |
| <i>con_type</i>           | (Optional) |
| <i>con_len</i>            | (Optional) |
| <i>con_rd</i>             | (Optional) |

|                            |            |
|----------------------------|------------|
| <i>con_ip</i>              | (Optional) |
| <i>mdt_grp_addr</i>        | (Optional) |
| <i>evpn-esi</i>            | (Optional) |
| <i>link-state-attr</i>     | (Optional) |
| <i>link-state-attr-len</i> | (Optional) |
| TABLE_community            | (Optional) |
| <i>community</i>           | (Optional) |
| TABLE_extcommunity         | (Optional) |
| <i>extcommunity</i>        | (Optional) |
| <i>originatorid</i>        | (Optional) |
| TABLE_clusterlist          | (Optional) |
| <i>clusterlist</i>         | (Optional) |
| <i>remotenh</i>            | (Optional) |
| <i>remotenh_encap</i>      | (Optional) |
| <i>remotenh_vnid</i>       | (Optional) |
| <i>remotenh_mac</i>        | (Optional) |
| <i>pmsi</i>                | (Optional) |
| <i>psid_len</i>            | (Optional) |
| <i>psid_lindx_len</i>      | (Optional) |
| <i>psid_lindx_flag</i>     | (Optional) |
| <i>psid_lindx</i>          | (Optional) |
| <i>psid_v6sid_len</i>      | (Optional) |
| <i>psid_origsrgb_len</i>   | (Optional) |
| <i>psid_origsrgb_flag</i>  | (Optional) |
| <i>psid_origsrgb_base</i>  | (Optional) |
| <i>psid_origsrgb_end</i>   | (Optional) |

**Command Mode**

- /exec

## show bgp sessions

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] sessions [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__ <totalpeers>
<totalestablishedpeers> <localas> TABLE_vrf <vrf-name-out> <local-as> <vrfpeers> <vrfestablishedpeers>
<router-id> [ TABLE_neighbor <neighbor-id> <connectionsdropped> <remotear> [ <lastflap> ] [ <lastread>
] [ <lastwrite> ] <state> <localport> <remoteport> <notificationssent> <notificationsreceived> ] ]
```

### Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information           |
| bgp                          | Display BGP status and configuration      |
| vrf                          | (Optional) Virtual Router Context         |
| <i>vrf-name</i>              | (Optional) VRF name                       |
| <i>vrf-known-name</i>        | (Optional) Known VRF name                 |
| sessions                     | Display session information for all peers |
| <i>__readonly__</i>          | (Optional)                                |
| TABLE_vrf                    | (Optional)                                |
| <i>vrf-name-out</i>          | (Optional)                                |
| <i>local-as</i>              | (Optional)                                |
| <i>totalpeers</i>            | (Optional)                                |
| <i>totalestablishedpeers</i> | (Optional)                                |
| <i>router-id</i>             | (Optional)                                |
| <i>localas</i>               | (Optional)                                |
| <i>vrfpeers</i>              | (Optional)                                |
| <i>vrfestablishedpeers</i>   | (Optional)                                |
| TABLE_neighbor               | (Optional)                                |
| <i>neighbor-id</i>           | (Optional)                                |
| <i>connectionsdropped</i>    | (Optional)                                |
| <i>remotear</i>              | (Optional)                                |
| <i>lastflap</i>              | (Optional)                                |
| <i>lastread</i>              | (Optional)                                |
| <i>lastwrite</i>             | (Optional)                                |

|                              |            |
|------------------------------|------------|
| <i>state</i>                 | (Optional) |
| <i>localport</i>             | (Optional) |
| <i>remoteport</i>            | (Optional) |
| <i>notificationssent</i>     | (Optional) |
| <i>notificationsreceived</i> | (Optional) |

**Command Mode**

- /exec

# show bgp statistics

```
show bgp statistics [ __readonly__ <msgsent> <msgrcvd> <bytesent> <bytercvd> <opensent> <openrcvd>
<updatesent> <updaterecvd> <kasent> <karecvd> <notifsent> <notifrcvd> <rrefreshsent> <rrefreshrcvd>
<capsent> <caprcvd> ]
```

## Syntax Description

|                     |                                      |
|---------------------|--------------------------------------|
| show                | Show running system information      |
| bgp                 | Display BGP status and configuration |
| statistics          | BGP global statistics                |
| __readonly__        | (Optional)                           |
| <i>msgsent</i>      | (Optional)                           |
| <i>msgrcvd</i>      | (Optional)                           |
| <i>bytesent</i>     | (Optional)                           |
| <i>bytercvd</i>     | (Optional)                           |
| <i>opensent</i>     | (Optional)                           |
| <i>openrcvd</i>     | (Optional)                           |
| <i>updatesent</i>   | (Optional)                           |
| <i>updaterecvd</i>  | (Optional)                           |
| <i>kasent</i>       | (Optional)                           |
| <i>karecvd</i>      | (Optional)                           |
| <i>notifsent</i>    | (Optional)                           |
| <i>notifrcvd</i>    | (Optional)                           |
| <i>rrefreshsent</i> | (Optional)                           |
| <i>rrefreshrcvd</i> | (Optional)                           |
| <i>capsent</i>      | (Optional)                           |
| <i>caprcvd</i>      | (Optional)                           |

## Command Mode

- /exec





|                               |   |
|-------------------------------|---|
| <i>vrf-state</i>              | (Optional) VRF State                              |
| <i>vrf-state-rsn</i>          | (Optional) VRF State Reason                       |
| <i>vrf-delete-pending</i>     | (Optional) VRF delete pending                     |
| <i>vrf-evpn-mpls</i>          | (Optional) VRF EVPN L3 MPLS                       |
| <i>vrf-vni-id</i>             | (Optional) VRF VNI ID                             |
| <i>vrf-vni-id-valid</i>       | (Optional) VRF VNI ID validity                    |
| <i>vrf-topo-id</i>            | (Optional) VRF Topo ID                            |
| <i>vrf-encap-type</i>         | (Optional) VRF encapsulation type                 |
| <i>vrf-vtep-ip</i>            | (Optional) VRF VTEP IP                            |
| <i>vrf-vtep-virtual-ip</i>    | (Optional) VRF VTEP Virtual IP                    |
| <i>vrf-vtep-vipr</i>          | (Optional) VRF VTEP Virtual IP for Re-origination |
| <i>vrf-router-mac</i>         | (Optional) VRF Router MAC                         |
| <i>vrf-vip-router-mac</i>     | (Optional) VRF VIP Router MAC                     |
| <i>vrf-vipr-router-mac</i>    | (Optional) VRF VIPR Router MAC                    |
| <i>vrf-router-id</i>          | (Optional) Router ID                              |
| <i>vrf-cfgd-id</i>            | (Optional) Configured Router-ID                   |
| <i>vrf-local-as</i>           | (Optional) Local AS                               |
| <i>vrf-confed-id</i>          | (Optional) Cluster-ID                             |
| <i>vrf-cluster-id</i>         | (Optional) Cluster-ID                             |
| <i>vrf-reconnect-interval</i> | (Optional) VRF reconnect interval                 |
| <i>vrf-peers</i>              | (Optional) No. of configured peers                |
| <i>vrf-pending-peers</i>      | (Optional) No. of pending peers                   |
| <i>vrf-est-peers</i>          | (Optional) No. of established peers               |
| <i>vrf-cfgd-max-as-limit</i>  | (Optional) Configured maxas-limit                 |
| <i>vrf-max-as-limit</i>       | (Optional) Active maxas-limit                     |
| <i>vrf-rd-configured</i>      | (Optional) VRF RD Configured                      |
| <i>vrf-rd</i>                 | (Optional) VRF RD                                 |
| <i>vrf-pending-rd</i>         | (Optional) VRF pending RD                         |
| TABLE_af                      | (Optional)  |

|                            |                                  |
|----------------------------|----------------------------------|
| <i>af-id</i>               | (Optional) AF ID                 |
| <i>af-table-id</i>         | (Optional) AF table              |
| <i>af-name</i>             | (Optional) AF table name         |
| <i>af-state</i>            | (Optional) AF table state        |
| <i>af-state-rsn</i>        | (Optional) AF table state reason |
| <i>af-num-peers</i>        | (Optional) No. of peers          |
| <i>af-num-active-peers</i> | (Optional) No. of active peers   |
| <i>af-peer-routes</i>      | (Optional) No. of peer routes    |
| <i>af-peer-paths</i>       | (Optional) No. of peer paths     |
| <i>af-peer-networks</i>    | (Optional) No. of peer networks  |
| <i>af-peer-aggregates</i>  | (Optional) No. of aggregates     |
| <i>af-export-rmap</i>      | (Optional) Export route-map      |
| <i>af-import-rmap</i>      | (Optional) Import route-map      |
| <i>af-retain-rt</i>        | (Optional) Retain RT             |
| TABLE_saf                  | (Optional)                       |
| <i>safi</i>                | (Optional)                       |
| <i>af-name</i>             | (Optional)                       |
| <i>tableversion</i>        | (Optional)                       |
| <i>configuredpeers</i>     | (Optional)                       |
| <i>capablepeers</i>        | (Optional)                       |
| <i>totalnetworks</i>       | (Optional)                       |
| <i>totalpaths</i>          | (Optional)                       |
| <i>memoryused</i>          | (Optional)                       |
| <i>numberattrs</i>         | (Optional)                       |
| <i>bytesattrs</i>          | (Optional)                       |
| <i>numberpaths</i>         | (Optional)                       |
| <i>bytespaths</i>          | (Optional)                       |
| <i>numbercommunities</i>   | (Optional)                       |
| <i>bytescommunities</i>    | (Optional)                       |

|                                   |            |
|-----------------------------------|------------|
| <i>numberclusterlist</i>          | (Optional) |
| <i>bytesclusterlist</i>           | (Optional) |
| <i>dampening</i>                  | (Optional) |
| <i>historypaths</i>               | (Optional) |
| <i>dampenedpaths</i>              | (Optional) |
| <i>softreconfigrecvdpaths</i>     | (Optional) |
| <i>softreconfigidenticalpaths</i> | (Optional) |
| <i>softreconfigcombopaths</i>     | (Optional) |
| <i>softreconfigfilteredrecvd</i>  | (Optional) |
| <i>softreconfigbytes</i>          | (Optional) |
| TABLE_neighbor                    | (Optional) |
| <i>neighborid</i>                 | (Optional) |
| <i>neighborversion</i>            | (Optional) |
| <i>neighboras</i>                 | (Optional) |
| <i>msgrecvd</i>                   | (Optional) |
| <i>msgsent</i>                    | (Optional) |
| <i>neighborstableversion</i>      | (Optional) |
| <i>inq</i>                        | (Optional) |
| <i>outq</i>                       | (Optional) |
| <i>time</i>                       | (Optional) |
| <i>state</i>                      | (Optional) |
| <i>prefixreceived</i>             | (Optional) |

**Command Mode**

- /exec

# show bgp summary

```
show bgp { ipv4 { unicast | multicast } | ipv6 { unicast | multicast } | ipv4 mdt | vpnv4 unicast | vpnv6 unicast
| ipv6 labeled-unicast | link-state | l2vpn vpls | ipv4 mvpn | ipv6 mvpn | l2vpn evpn | ipv4 labeled-unicast | all
} summary [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ __readonly__
TABLE_vrf <vrf-name-out> [ <vrf-id> ] [ <vrf-state> ] [ <vrf-state-rsn> ] [ <vrf-delete-pending> ] [
<vrf-evpn-mps> ] [ <vrf-vni-id> ] [ <vrf-vni-id-valid> ] [ <vrf-topo-id> ] [ <vrf-encap-type> ] [ <vrf-vtep-ip>
] [ <vrf-vtep-virtual-ip> ] [ <vrf-vtep-vipr> ] [ <vrf-router-mac> ] [ <vrf-vip-router-mac> ] [
<vrf-vipr-router-mac> ] [ <vrf-router-id> ] [ <vrf-cfgd-id> ] [ <vrf-local-as> ] [ <vrf-confed-id> ] [
<vrf-cluster-id> ] [ <vrf-reconnect-interval> ] [ <vrf-peers> ] [ <vrf-pending-peers> ] [ <vrf-est-peers> ] [
<vrf-cfgd-max-as-limit> ] [ <vrf-max-as-limit> ] [ <vrf-rd-configured> ] [ <vrf-rd> ] [ <vrf-pending-rd> ] [
TABLE_af <af-id> [ <af-name> ] [ <af-table-id> ] [ <af-state> ] [ <af-state-rsn> ] [ <af-num-peers> ] [
<af-num-active-peers> ] [ <af-peer-routes> ] [ <af-peer-paths> ] [ <af-peer-networks> ] [ <af-peer-aggregates>
] [ <af-export-rmap> ] [ <af-import-rmap> ] [ <af-retain-rt> ] TABLE_saf <safi> [ <af-name> ] [ <tableversion>
] [ <configuredpeers> ] [ <capablepeers> ] [ <totalnetworks> ] [ <totalpaths> ] [ <memoryused> ] [
<numberattrs> ] [ <bytesattrs> ] [ <numberpaths> ] [ <bytespaths> ] [ <numbercommunities> ] [
<bytescommunities> ] [ <numberclusterlist> ] [ <bytesclusterlist> ] [ <dampening> ] [ <historypaths> ] [
<dampenedpaths> ] [ <softreconfigrecvdpaths> ] [ <softreconfigidenticalpaths> ] [ <softreconfigcombopath>
] [ <softreconfigfilteredrecvd> ] [ <softreconfigbytes> ] [ TABLE_neighbor <neighborid> [ <neighborversion>
] [ <msgrecvd> ] [ <msgsent> ] [ <neighborstableversion> ] [ <inq> ] [ <outq> ] [ <neighboras> ] [ <time> ]
[ <state> ] [ <prefixreceived> ] ] ] ] ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                            |
| bgp                   | Display BGP status and configuration                       |
| vrf                   | (Optional) Virtual Router Context                          |
| <i>vrf-name</i>       | (Optional) VRF name  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                  |
| summary               | Display summarized information of BGP state                |
| ipv4                  | Display BGP information for IPv4 address family            |
| vpnv4                 | Display BGP information for VPNv4 address family           |
| vpnv6                 | Display BGP information for VPNv6 address family           |
| ipv6                  | Display BGP information for IPv6 address family            |
| unicast               | Display BGP information for unicast address family         |
| multicast             | Display BGP information for multicast address family       |
| labeled-unicast       | Display BGP information for labeled-unicast address family |
| mdt                   | Display BGP information for multicast distribution tree    |
| link-state            | Display BGP information for link-state address family      |

|                               |   |
|-------------------------------|---|
| l2vpn                         | Display BGP information for L2VPN address family      |
| vpls                          | Display BGP information for L2VPN VPLS address family |
| mvpn                          | Display BGP information for MVPN address family       |
| evpn                          | Display BGP information for L2VPN EVPN address family |
| all                           | Display BGP information for all address families      |
| __readonly__                  | (Optional)  |
| TABLE_vrf                     | (Optional)  |
| <i>vrf-name-out</i>           | (Optional) VRF name                                   |
| <i>vrf-id</i>                 | (Optional) VRF ID                                     |
| <i>vrf-state</i>              | (Optional) VRF State                                  |
| <i>vrf-state-rsn</i>          | (Optional) VRF State Reason                           |
| <i>vrf-delete-pending</i>     | (Optional) VRF delete pending                         |
| <i>vrf-evpn-mpls</i>          | (Optional) VRF EVPN L3 MPLS                           |
| <i>vrf-vni-id</i>             | (Optional) VRF VNI ID                                 |
| <i>vrf-vni-id-valid</i>       | (Optional) VRF VNI ID validity                        |
| <i>vrf-topo-id</i>            | (Optional) VRF Topo ID                                |
| <i>vrf-encap-type</i>         | (Optional) VRF encapsulation type                     |
| <i>vrf-vtep-ip</i>            | (Optional) VRF VTEP IP                                |
| <i>vrf-vtep-virtual-ip</i>    | (Optional) VRF VTEP Virtual IP                        |
| <i>vrf-vtep-vipr</i>          | (Optional) VRF VTEP Virtual IP for Re-origination     |
| <i>vrf-router-mac</i>         | (Optional) VRF Router MAC                             |
| <i>vrf-vip-router-mac</i>     | (Optional) VRF VIP Router MAC                         |
| <i>vrf-vipr-router-mac</i>    | (Optional) VRF VIPR Router MAC                        |
| <i>vrf-router-id</i>          | (Optional) Router ID                                  |
| <i>vrf-cfgd-id</i>            | (Optional) Configured Router-ID                       |
| <i>vrf-local-as</i>           | (Optional) Local AS                                   |
| <i>vrf-confed-id</i>          | (Optional) Cluster-ID                                 |
| <i>vrf-cluster-id</i>         | (Optional) Cluster-ID                                 |
| <i>vrf-reconnect-interval</i> | (Optional) VRF reconnect interval                     |

|                              |                                     |
|------------------------------|-------------------------------------|
| <i>vrf-peers</i>             | (Optional) No. of configured peers  |
| <i>vrf-pending-peers</i>     | (Optional) No. of pending peers     |
| <i>vrf-est-peers</i>         | (Optional) No. of established peers |
| <i>vrf-cfgd-max-as-limit</i> | (Optional) Configured maxas-limit   |
| <i>vrf-max-as-limit</i>      | (Optional) Active maxas-limit       |
| <i>vrf-rd-configured</i>     | (Optional) VRF RD Configured        |
| <i>vrf-rd</i>                | (Optional) VRF RD                   |
| <i>vrf-pending-rd</i>        | (Optional) VRF pending RD           |
| TABLE_af                     | (Optional)                          |
| <i>af-id</i>                 | (Optional) AF ID                    |
| <i>af-table-id</i>           | (Optional) AF table                 |
| <i>af-name</i>               | (Optional) AF table name            |
| <i>af-state</i>              | (Optional) AF table state           |
| <i>af-state-rsn</i>          | (Optional) AF table state reason    |
| <i>af-num-peers</i>          | (Optional) No. of peers             |
| <i>af-num-active-peers</i>   | (Optional) No. of active peers      |
| <i>af-peer-routes</i>        | (Optional) No. of peer routes       |
| <i>af-peer-paths</i>         | (Optional) No. of peer paths        |
| <i>af-peer-networks</i>      | (Optional) No. of peer networks     |
| <i>af-peer-aggregates</i>    | (Optional) No. of aggregates        |
| <i>af-export-rmap</i>        | (Optional) Export route-map         |
| <i>af-import-rmap</i>        | (Optional) Import route-map         |
| <i>af-retain-rt</i>          | (Optional) Retain RT                |
| TABLE_saf                    | (Optional)                          |
| <i>safi</i>                  | (Optional)                          |
| <i>af-name</i>               | (Optional)                          |
| <i>tableversion</i>          | (Optional)                          |
| <i>configuredpeers</i>       | (Optional)                          |
| <i>capablepeers</i>          | (Optional)                          |

|                                   |            |
|-----------------------------------|------------|
| <i>totalnetworks</i>              | (Optional) |
| <i>totalpaths</i>                 | (Optional) |
| <i>memoryused</i>                 | (Optional) |
| <i>numberattrs</i>                | (Optional) |
| <i>bytesattrs</i>                 | (Optional) |
| <i>numberpaths</i>                | (Optional) |
| <i>bytespaths</i>                 | (Optional) |
| <i>numbercommunities</i>          | (Optional) |
| <i>bytescommunities</i>           | (Optional) |
| <i>numberclusterlist</i>          | (Optional) |
| <i>bytesclusterlist</i>           | (Optional) |
| <i>dampening</i>                  | (Optional) |
| <i>historypaths</i>               | (Optional) |
| <i>dampenedpaths</i>              | (Optional) |
| <i>softreconfigrecvdpaths</i>     | (Optional) |
| <i>softreconfigidenticalpaths</i> | (Optional) |
| <i>softreconfigcombopaths</i>     | (Optional) |
| <i>softreconfigfilteredrecvd</i>  | (Optional) |
| <i>softreconfigbytes</i>          | (Optional) |
| TABLE_neighbor                    | (Optional) |
| <i>neighborid</i>                 | (Optional) |
| <i>neighborversion</i>            | (Optional) |
| <i>neighboras</i>                 | (Optional) |
| <i>msgrecvd</i>                   | (Optional) |
| <i>msgsent</i>                    | (Optional) |
| <i>neighbortableversion</i>       | (Optional) |
| <i>inq</i>                        | (Optional) |
| <i>outq</i>                       | (Optional) |
| <i>time</i>                       | (Optional) |



|                       |            |
|-----------------------|------------|
| <i>state</i>          | (Optional) |
| <i>prefixreceived</i> | (Optional) |

**Command Mode**

- /exec

# show boot

```
show boot [ __readonly__ { [ TABLE_bootvar_show <Str1> ] [ TABLE_Current_Bootvar
<current_sup_module> <current_image> [ <current_sup_module> ] [ <current_image> ] <current_poap_status>
] [ TABLE_Startup_Bootvar <start_sup_module> <start_image> [ <start_sup_module> ] [ <start_image> ]
<start_poap_status> ] } ]
```

## Syntax Description

|                            |  |
|----------------------------|--|
| show                       | Show running system information                    |
| boot                       | Show Bootvar Variables                             |
| __readonly__               | (Optional)   |
| TABLE_bootvar_show         | (Optional) Bootvar table                           |
| TABLE_Current_Bootvar      | (Optional) Table for current boot variables        |
| TABLE_Startup_Bootvar      | (Optional) Table for boot variables on next reload |
| <i>Str1</i>                | (Optional)   |
| <i>current_sup_module</i>  | (Optional) Current boot variable supervisor module |
| <i>current_image</i>       | (Optional) Current image set for boot variable     |
| <i>current_poap_status</i> | (Optional) Current status for poap                 |
| <i>start_sup_module</i>    | (Optional) Next reload supervisor module           |
| <i>start_image</i>         | (Optional) Next reload boot variable               |
| <i>start_poap_status</i>   | (Optional) Next reload poap status                 |

## Command Mode

- /exec

## show boot auto-copy

```
show boot auto-copy [ __readonly__ { [ TABLE_auto_copy <Str1> <status> ] } ]
```

### Syntax Description

|                 |  |
|-----------------|--|
| show            | Show running system information                  |
| boot            | Show Bootvar Variables                           |
| auto-copy       | See if autocopy is turned on                     |
| __readonly__    | (Optional)                                       |
| TABLE_auto_copy | (Optional) Auto copy table                       |
| <i>Str1</i>     | (Optional)                                       |
| <i>status</i>   | (Optional) status of auto copy is enable/disable |

### Command Mode

- /exec

# show boot auto-copy list

show boot auto-copy list [ \_\_readonly\_\_ { [ TABLE\_auto\_copy\_list <Str1> <file> ] } ]

## Syntax Description

|                      |  |
|----------------------|--|
| show                 | Show running system information          |
| boot                 | Show Bootvar Variables                   |
| auto-copy            | See if autcopy is turned on              |
| list                 | Show the list of files to be auto-copied |
| __readonly__         | (Optional)                               |
| TABLE_auto_copy_list | (Optional) Auto copy table               |
| <i>Str1</i>          | (Optional)                               |
| <i>file</i>          | (Optional) file in the auto copy list    |

## Command Mode

- /exec

# show boot current

```
show boot current [ __readonly__ { [ TABLE_bootvar_current <Str1> ] [ TABLE_current_bootvar
<current_sup_module> <current_image> [ <current_sup_module> ] [ <current_image> ] ] } ]
```

## Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                    |
| boot                      | Show Bootvar Variables                             |
| current                   | Show Current Bootvar Variables                     |
| __readonly__              | (Optional)   |
| TABLE_bootvar_current     | (Optional) Bootvar current table                   |
| TABLE_current_bootvar     | (Optional) Current booted image table              |
| <i>Str1</i>               | (Optional)   |
| <i>current_sup_module</i> | (Optional) Current boot variable supervisor module |
| <i>current_image</i>      | (Optional) Current image set for boot variable     |

## Command Mode

- /exec

# show boot mode

```
show boot mode [ __readonly__ { [ TABLE_mode <Str1> <current_boot_mode> [ <configured_boot_mode> ] ] } ]
```

## Syntax Description

|                             |   |
|-----------------------------|---|
| show                        | Show boot mode information                        |
| boot                        | Show boot mode                                    |
| mode                        | See if lxc boot is turned on                      |
| <i>__readonly__</i>         | (Optional)  |
| <i>TABLE_mode</i>           | (Optional) boot mode table                        |
| <i>Str1</i>                 | (Optional)  |
| <i>current_boot_mode</i>    | (Optional) current running boot mode              |
| <i>configured_boot_mode</i> | (Optional) configured boot mode in running config |

## Command Mode

- /exec

# show boot order

```
show boot order [ __readonly__ { [ TABLE_bootvar_order <Str1> ] [ TABLE_boot_order <current_order>
<next_order> ] } ]
```

## Syntax Description

|                      |                                       |
|----------------------|---------------------------------------|
| show                 | Show running system information       |
| boot                 | Show Bootvar Variables                |
| order                | Show Boot Order                       |
| __readonly__         | (Optional)                            |
| TABLE_bootvar_order  | (Optional) Boot order table           |
| TABLE_boot_order     | (Optional) Current boot order table   |
| <i>Str1</i>          | (Optional)                            |
| <i>current_order</i> | (Optional) order of the boot location |
| <i>next_order</i>    | (Optional) order of the boot location |

## Command Mode

- /exec

# show boot timings

show boot timings

## Syntax Description

|         |                                 |
|---------|---------------------------------|
| show    | Show running system information |
| boot    | show boot information           |
| timings | show boot timings               |

## Command Mode

- /exec



# show boot variables

```
show boot variables [ __readonly__ { [ TABLE_boot_vars <Str1> <boot_variable> } ] ]
```

## Syntax Description

|                      |                                      |
|----------------------|--------------------------------------|
| show                 | Show running system information      |
| boot                 | Show Bootvar Variables               |
| variables            | Display the list of boot variables   |
| __readonly__         | (Optional)                           |
| TABLE_boot_vars      | (Optional) Show boot variables table |
| <i>Str1</i>          | (Optional)                           |
| <i>boot_variable</i> | (Optional) available boot variable   |

## Command Mode

- /exec





## C Show Commands

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# show callhome

```
show callhome [ __readonly__ <output_state> <info> <per_name> [ <name> ] <email_info> [ <email_conf>
] <ph_info> [ <ph_conf> ] <str_addr> [ <str_conf> ] <site_id> [ <site_id_conf> ] <cust_id> [ <cus_id_conf>
] <contr_id> [ <contr_id_conf> ] <swi_pri> [ <swi_pri_value> ] <dup_mess> <per_inv> <per_time>
<per_timeofday> <dist> ]
```

## Syntax Description

|                      |                                 |
|----------------------|---------------------------------|
| show                 | Show running system information |
| callhome             | Show callhome information       |
| <i>__readonly__</i>  | (Optional)                      |
| <i>output_state</i>  | (Optional)                      |
| <i>info</i>          | (Optional)                      |
| <i>per_name</i>      | (Optional)                      |
| <i>name</i>          | (Optional)                      |
| <i>email_info</i>    | (Optional)                      |
| <i>email_conf</i>    | (Optional)                      |
| <i>ph_info</i>       | (Optional)                      |
| <i>ph_conf</i>       | (Optional)                      |
| <i>str_addr</i>      | (Optional)                      |
| <i>str_conf</i>      | (Optional)                      |
| <i>site_id</i>       | (Optional)                      |
| <i>site_id_conf</i>  | (Optional)                      |
| <i>cust_id</i>       | (Optional)                      |
| <i>cus_id_conf</i>   | (Optional)                      |
| <i>contr_id</i>      | (Optional)                      |
| <i>contr_id_conf</i> | (Optional)                      |
| <i>swi_pri</i>       | (Optional)                      |
| <i>swi_pri_value</i> | (Optional)                      |
| <i>dup_mess</i>      | (Optional)                      |
| <i>per_inv</i>       | (Optional)                      |

|                      |            |
|----------------------|------------|
| <i>per_time</i>      | (Optional) |
| <i>per_timeofday</i> | (Optional) |
| <i>dist</i>          | (Optional) |

**Command Mode**

- /exec

## show callhome destination-profile

```
show callhome destination-profile [ __readonly__ { TABLE_call_info [ <dest_full_info> ] [ <dest_short_info> ] [ <dest_xml_info> ] [ <dest_def_info> ] <max_mess_size> <mess_format> <mess_level> <trans_method> <email_info> [ <index> <email_conf> ] <url_info> [ <index> <url_conf> ] <alert_groups> [ <alert_conf> ] } ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information               |
| callhome               | Show callhome information                     |
| destination-profile    | Show callhome destination profile information |
| <i>__readonly__</i>    | (Optional)                                    |
| <i>TABLE_call_info</i> | (Optional)                                    |
| <i>dest_full_info</i>  | (Optional)                                    |
| <i>dest_short_info</i> | (Optional)                                    |
| <i>dest_xml_info</i>   | (Optional)                                    |
| <i>dest_def_info</i>   | (Optional)                                    |
| <i>max_mess_size</i>   | (Optional)                                    |
| <i>mess_format</i>     | (Optional)                                    |
| <i>mess_level</i>      | (Optional)                                    |
| <i>trans_method</i>    | (Optional)                                    |
| <i>index</i>           | (Optional)                                    |
| <i>email_info</i>      | (Optional)                                    |
| <i>email_conf</i>      | (Optional)                                    |
| <i>url_info</i>        | (Optional)                                    |
| <i>url_conf</i>        | (Optional)                                    |
| <i>alert_groups</i>    | (Optional)                                    |
| <i>alert_conf</i>      | (Optional)                                    |

### Command Mode

- /exec

## show callhome destination-profile profile

```
show callhome destination-profile profile <s0> [ __readonly__ <user_txt_info> <max_mess_size>
<mess_format> <mess_level> <trans_method> <email_info> [ TABLE_email [ <index> <email_conf> ] ]
<url_info> [ TABLE_url [ <index> <url_conf> ] ] <alert_groups> [ TABLE_alert [ <alert_conf> ] ] ]
```

### Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information                       |
| callhome             | Show callhome information                             |
| destination-profile  | Show callhome destination profile information         |
| profile              | Specify the destination profile                       |
| <i>s0</i>            | Show information for user defined destination profile |
| <i>__readonly__</i>  | (Optional)  |
| <i>user_txt_info</i> | (Optional)  |
| <i>max_mess_size</i> | (Optional)  |
| <i>mess_format</i>   | (Optional)  |
| <i>mess_level</i>    | (Optional)  |
| <i>trans_method</i>  | (Optional)  |
| <i>email_info</i>    | (Optional)  |
| <i>index</i>         | (Optional)  |
| TABLE_email          | (Optional)  |
| <i>email_conf</i>    | (Optional)  |
| <i>url_info</i>      | (Optional)  |
| TABLE_url            | (Optional)  |
| <i>url_conf</i>      | (Optional)  |
| <i>alert_groups</i>  | (Optional)  |
| TABLE_alert          | (Optional)  |
| <i>alert_conf</i>    | (Optional)  |

### Command Mode

- /exec



# show callhome destination-profile profile CiscoTAC-1

```
show callhome destination-profile profile CiscoTAC-1 [ __readonly__ <tac_xml_info> <max_mess_size>
<mess_level> <trans_method> <email_info> [ <index> <email_conf> ] <url_info> [ <index> <url_conf> ]
<alert_groups> [ <alert_conf> ] ]
```

## Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information                     |
| callhome             | Show callhome information                           |
| destination-profile  | Show callhome destination profile information       |
| profile              | Specify the destination profile                     |
| CiscoTAC-1           | Show information for CiscoTAC-1 destination profile |
| <i>__readonly__</i>  | (Optional)  |
| <i>tac_xml_info</i>  | (Optional)  |
| <i>max_mess_size</i> | (Optional)  |
| <i>mess_level</i>    | (Optional)  |
| <i>trans_method</i>  | (Optional)  |
| <i>email_info</i>    | (Optional)  |
| <i>index</i>         | (Optional)  |
| <i>email_conf</i>    | (Optional)  |
| <i>url_info</i>      | (Optional)  |
| <i>url_conf</i>      | (Optional)  |
| <i>alert_groups</i>  | (Optional)  |
| <i>alert_conf</i>    | (Optional)  |

## Command Mode

- /exec

## show callhome destination-profile profile full-txt-destination

```
show callhome destination-profile profile full-txt-destination [ __readonly__ <full_txt_info> <max_mess_size>
<mess_level> <trans_method> <email_info> [ <index> <email_conf> ] <url_info> [ <index> <url_conf> ]
<alert_groups> [ <alert_conf> ] ]
```

### Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information                               |
| callhome             | Show callhome information                                     |
| destination-profile  | Show callhome destination profile information                 |
| profile              | Specify the destination profile                               |
| full-txt-destination | Show information for full-txt-destination destination profile |
| <i>__readonly__</i>  | (Optional)  |
| <i>full_txt_info</i> | (Optional)  |
| <i>max_mess_size</i> | (Optional)  |
| <i>mess_level</i>    | (Optional)  |
| <i>trans_method</i>  | (Optional)  |
| <i>email_info</i>    | (Optional)  |
| <i>index</i>         | (Optional)  |
| <i>email_conf</i>    | (Optional)  |
| <i>url_info</i>      | (Optional)  |
| <i>url_conf</i>      | (Optional)  |
| <i>alert_groups</i>  | (Optional)  |
| <i>alert_conf</i>    | (Optional)  |

### Command Mode

- /exec

# show callhome destination-profile profile short-txt-destination

```
show callhome destination-profile profile short-txt-destination [ __readonly__ <shrt_txt_info>
<max_mess_size> <mess_level> <trans_method> <email_info> [ <index> <email_conf> ] <url_info> [
<index> <url_conf> ] <alert_groups> [ <alert_conf> ] ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                                |
| callhome              | Show callhome information                                      |
| destination-profile   | Show callhome destination profile information                  |
| profile               | Specify the destination profile                                |
| short-txt-destination | Show information for short-txt-destination destination profile |
| <i>__readonly__</i>   | (Optional)   |
| <i>shrt_txt_info</i>  | (Optional)   |
| <i>max_mess_size</i>  | (Optional)   |
| <i>mess_level</i>     | (Optional)   |
| <i>trans_method</i>   | (Optional)   |
| <i>email_info</i>     | (Optional)   |
| <i>index</i>          | (Optional)   |
| <i>email_conf</i>     | (Optional)   |
| <i>url_info</i>       | (Optional)   |
| <i>url_conf</i>       | (Optional)   |
| <i>alert_groups</i>   | (Optional)   |
| <i>alert_conf</i>     | (Optional)   |

## Command Mode

- /exec

# show callhome transport-email

```
show callhome transport-email [ __readonly__ { <from_email> } [ <reply_to_email> ] [ <return_receipt_addr>
] { <smtp_server> } [ <smtp_server_port> ] ]
```

## Syntax Description

|                                  |   |
|----------------------------------|---|
| <code>__readonly__</code>        | (Optional)                                  |
| <code>show</code>                | Show running system information             |
| <code>callhome</code>            | Show callhome information                   |
| <code>transport-email</code>     | Show callhome email transport configuration |
| <code>from_email</code>          | (Optional)                                  |
| <code>reply_to_email</code>      | (Optional)                                  |
| <code>return_receipt_addr</code> | (Optional)                                  |
| <code>smtp_server</code>         | (Optional)                                  |
| <code>smtp_server_port</code>    | (Optional)                                  |

## Command Mode

- /exec

# show callhome transport

```
show callhome transport [ __readonly__ <vrf> <from_email> [ <rep_email> ] [ <ret_email> ] [ <smtp_ser>
] [ <smtp_ser_port> ] [ <smtp_ser_vrf> ] [ <smtp_ser_prior> ] [ <smtp_ser_do> ] [ <smtp_ser_port_do> ] [
<smtp_ser_vrf_do> ] [ <smtp_ser_prior_do> ] [ <smtp_ser_got> ] [ <smtp_ser_port_got> ] [
<smtp_ser_vrf_got> ] [ <smtp_ser_prior_got> ] <http_prox> <http_port> <http_state> ]
```

## Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                        |
| callhome                  | Show callhome information                              |
| transport                 | Show callhome transport configuration (email and http) |
| <i>__readonly__</i>       | (Optional)   |
| <i>vrf</i>                | (Optional)   |
| <i>from_email</i>         | (Optional)   |
| <i>rep_email</i>          | (Optional)   |
| <i>ret_email</i>          | (Optional)   |
| <i>smtp_ser</i>           | (Optional)   |
| <i>smtp_ser_port</i>      | (Optional)   |
| <i>smtp_ser_vrf</i>       | (Optional)   |
| <i>smtp_ser_prior</i>     | (Optional)   |
| <i>smtp_ser_do</i>        | (Optional)   |
| <i>smtp_ser_port_do</i>   | (Optional)   |
| <i>smtp_ser_vrf_do</i>    | (Optional)   |
| <i>smtp_ser_prior_do</i>  | (Optional)   |
| <i>smtp_ser_got</i>       | (Optional)   |
| <i>smtp_ser_port_got</i>  | (Optional)   |
| <i>smtp_ser_vrf_got</i>   | (Optional)   |
| <i>smtp_ser_prior_got</i> | (Optional)   |
| <i>http_prox</i>          | (Optional)   |
| <i>http_port</i>          | (Optional)   |
| <i>http_state</i>         | (Optional)   |

**Command Mode**

- /exec

## show callhome user-def-cmds

```
show callhome user-def-cmds [ __readonly__ { <user_configured_cmds> } [ { TABLE_user_def_cmds
<alert_group> <index> <user_defined_cmds> } ] ]
```

### Syntax Description

|                             |   |
|-----------------------------|---|
| show                        | Show running system information                       |
| callhome                    | Show callhome information                             |
| user-def-cmds               | Show the cli commands configured for each alert group |
| <i>__readonly__</i>         | (Optional)  |
| <i>user_configured_cmds</i> | (Optional) List of user configured commands           |
| TABLE_user_def_cmds         | (Optional)  |
| <i>index</i>                | (Optional)  |
| <i>alert_group</i>          | (Optional)  |
| <i>user_defined_cmds</i>    | (Optional)  |

### Command Mode

- /exec

## show catena

```
show catena <instance-name> [ brief ] [ __readonly__ <instance_name> <state> { TABLE_chain <chain> [
TABLE_rule <seqno> <aclname> <whichconfig> [ <vlan_group> ] [ <ingress_port> ] [ <egress_port> ] [
<egress_device> ] [ <mode> ] [ <l2_lb> ] ] } ]
```

### Syntax Description

|                      |                                 |
|----------------------|---------------------------------|
| show                 | Show running system information |
| catena               | catena                          |
| <i>instance-name</i> | instance name                   |
| brief                | (Optional) brief                |
| <i>__readonly__</i>  | (Optional) Read Only            |
| <i>instance_name</i> | (Optional) instance_name        |
| <i>state</i>         | (Optional) status               |
| TABLE_chain          | (Optional)                      |
| <i>chain</i>         | (Optional) chain                |
| TABLE_rule           | (Optional)                      |
| <i>seqno</i>         | (Optional) seqno                |
| <i>aclname</i>       | (Optional) aclname              |
| <i>whichconfig</i>   | (Optional) whichconfig          |
| <i>vlan_group</i>    | (Optional) vlangrp              |
| <i>ingress_port</i>  | (Optional) ingress_portgrp      |
| <i>egress_port</i>   | (Optional) egress_portgrp       |
| <i>egress_device</i> | (Optional) egress_device        |
| <i>mode</i>          | (Optional) mode                 |
| <i>l2_lb</i>         | (Optional) L2 Load Balance      |

### Command Mode

- /exec



# show catena analytics

```
show catena analytics { per-acl { per-node | per-device-group | per-vlan-group | per-port-group | total } |
per-catena-instance <instance-name> [ per-chain [ <chain-id> ] ] } [ __readonly__ <instance_name>
<per_node> <per_node_total> <per_node_total_val> <per_intf_total_val> <per_vlan_total_val> <chain_id>
<per_device_group> <per_device_group_hdr> <per_device_group_val> <per_vlan_group>
<per_vlan_group_hdr> <per_vlan_group_val> <per_port_group> <per_port_group_val> <per_port_group_hdr>
<total_val> <stats_counter> ]
```

## Syntax Description

|                           |                                 |
|---------------------------|---------------------------------|
| show                      | Show running system information |
| catena                    | catena                          |
| analytics                 | show analytics for catena       |
| per-acl                   | per ACL                         |
| per-node                  | per Node                        |
| per-device-group          | per Device group                |
| per-vlan-group            | per Vlan Group                  |
| per-port-group            | per EgressPort Group            |
| total                     | per ACL Total                   |
| per-catena-instance       | per Catena Instance             |
| <i>instance-name</i>      | Name of Catena Instance         |
| per-chain                 | (Optional) per Chain            |
| <i>chain-id</i>           | (Optional) chain ID             |
| __readonly__              | (Optional) Read Only            |
| <i>instance_name</i>      | (Optional) Catena Instance name |
| <i>chain_id</i>           | (Optional) Chain ID             |
| <i>per_node</i>           | (Optional) per Node             |
| <i>per_node_total</i>     | (Optional) per Node total       |
| <i>per_node_total_val</i> | (Optional) per Node total val   |
| <i>per_intf_total_val</i> | (Optional) per Intf Total val   |
| <i>per_vlan_total_val</i> | (Optional) per Vlan total val   |
| <i>per_device_group</i>   | (Optional) per Device Group     |

|                             |  |
|-----------------------------|--|
| <i>per_device_group_hdr</i> | (Optional) per Device Group Header     |
| <i>per_device_group_val</i> | (Optional) per Device Group Val        |
| <i>per_vlan_group</i>       | (Optional) per Vlan Group              |
| <i>per_vlan_group_val</i>   | (Optional) per Vlan Group Val          |
| <i>per_vlan_group_hdr</i>   | (Optional) per Vlan Group Header       |
| <i>per_port_group</i>       | (Optional) per EgressPort Group        |
| <i>per_port_group_val</i>   | (Optional) per EgressPort Group Val    |
| <i>per_port_group_hdr</i>   | (Optional) per EgressPort Group Header |
| <i>total_val</i>            | (Optional) per ACL total               |
| <i>stats_counter</i>        | (Optional) stats_counter               |

**Command Mode**

- /exec

# show cdp

```
show cdp { entry { all1 | name <s0> } } [ __readonly__ TABLE_cdp_entry_all <device_id> [ <sysname> ]
[ { <v4addr> | <v6addr> } + ] <platform_id> <capability> + <intf_id> <port_id> <ttl> <version> <version_no>
[ <nativevlan> ] [ <vtpname> ] [ <duplexmode> ] [ <syslocation> ] [ { <v4mgmtaddr> | <v6mgmtaddr> } +
]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information           |
| cdp                 | Show Cisco Discovery Protocol information |
| entry               | Show CDP entries in database              |
| all1                | Show all CDP entries in database          |
| name                | Show a specific CDP entry matching a name |
| s0                  |   |
| __readonly__        | (Optional) Read only                      |
| TABLE_cdp_entry_all | (Optional) output of show cdp entry all   |
| device_id           | (Optional) Device Identifier              |
| sysname             | (Optional) System Name                    |
| v4addr              | (Optional) Interface IP V4 Address        |
| v6addr              | (Optional) Interface IP V6 Address        |
| platform_id         | (Optional) Platform Id                    |
| capability          | (Optional) Capability                     |
| intf_id             | (Optional) Interface Id                   |
| port_id             | (Optional) Port Identifier                |
| ttl                 | (Optional) Hold Time                      |
| version             | (Optional) Software Version               |
| version_no          | (Optional) CDP version number             |
| nativevlan          | (Optional) NativeVLAN                     |
| vtpname             | (Optional) Vtp Management Domain Name     |
| duplexmode          | (Optional) Duplex Mode                    |
| syslocation         | (Optional) System Location                |

|                   |                               |
|-------------------|-------------------------------|
| <i>v4mgmtaddr</i> | (Optional) IP V4 Mgmt Address |
| <i>v6mgmtaddr</i> | (Optional) IP V6 Mgmt Address |

**Command Mode**

- /exec

# show cdp all

```
show cdp { all | interface <if0> } [ __readonly__ TABLE_cdp_all <intf_id> <port_up> [ <cdp_global_enabled> ] <cdp_intf_enabled> [ <oper_mode> ] <refresh_time> <ttl> ]
```

## Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information           |
| cdp                       | Show Cisco Discovery Protocol information |
| all                       | Show all interfaces in CDP database       |
| interface                 | Show CDP parameters for an interface      |
| <i>if0</i>                |   |
| <i>__readonly__</i>       | (Optional) Read only                      |
| <i>TABLE_cdp_all</i>      | (Optional) output of show cdp all         |
| <i>intf_id</i>            | (Optional) Interface Id                   |
| <i>port_up</i>            | (Optional) Port status                    |
| <i>cdp_global_enabled</i> | (Optional) CDP global status              |
| <i>cdp_intf_enabled</i>   | (Optional) CDP interface status           |
| <i>oper_mode</i>          | (Optional) CDP operation mode             |
| <i>refresh_time</i>       | (Optional) Refresh Time                   |
| <i>ttl</i>                | (Optional) Hold Time                      |

## Command Mode

- /exec

# show cdp global

show cdp global [ *\_\_readonly\_\_* <cdp\_global\_enabled> <refresh\_time> <ttl> <v2\_advertisement> <deviceid\_format> ]

## Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information           |
| cdp                       | Show Cisco Discovery Protocol information |
| global                    | Show CDP global parameters                |
| <i>__readonly__</i>       | (Optional) Read only                      |
| <i>cdp_global_enabled</i> | (Optional) CDP global status              |
| <i>refresh_time</i>       | (Optional) Refresh Time                   |
| <i>ttl</i>                | (Optional) Hold Time                      |
| <i>v2_advertisement</i>   | (Optional) Show v2 advertisement          |
| <i>deviceid_format</i>    | (Optional) Show deviceId Format           |

## Command Mode

- /exec

# show cdp neighbors

```
show cdp neighbors [ interface <if> ] [ __readonly__ { TABLE_cdp_neighbor_brief_info <ifindex>
<device_id> <intf_id> <ttl> <capability> + <platform_id> <port_id> } { <neigh_count> } ]
```

## Syntax Description

|                               |   |
|-------------------------------|---|
| show                          | Show running system information                   |
| cdp                           | Show Cisco Discovery Protocol information         |
| neighbors                     | Show CDP neighbors                                |
| interface                     | (Optional) Show CDP neighbors on an interface     |
| <i>if</i>                     | (Optional) Specify Interface                      |
| <i>__readonly__</i>           | (Optional) Read only                              |
| TABLE_cdp_neighbor_brief_info | (Optional) output of show cdp neighbor - in brief |
| <i>ifindex</i>                | (Optional) Interface index                        |
| <i>device_id</i>              | (Optional) System Name (or) Device Identifier     |
| <i>intf_id</i>                | (Optional) Interface Id                           |
| <i>port_id</i>                | (Optional) Port Identifier                        |
| <i>platform_id</i>            | (Optional) Platform Id                            |
| <i>ttl</i>                    | (Optional) Hold Time                              |
| <i>capability</i>             | (Optional) Capability                             |
| <i>neigh_count</i>            | (Optional) Neighbor Count                         |

## Command Mode

- /exec

## show cdp neighbors detail

```
show cdp neighbors [ interface <if> ] detail [ __readonly__ TABLE_cdp_neighbor_detail_info <ifindex>
<device_id> [ <sysname> ] [ <vtpname> ] <numaddr> [ { <v4addr> | <v6addr> } + ] <platform_id>
<capability> + <intf_id> <port_id> <ttl> <version> <version_no> [ <nativevlan> ] [ <duplexmode> ] [ <mtu>
] [ <syslocation> ] [ <num_mgmtaddr> [ { <v4mgmtaddr> | <v6mgmtaddr> } + ] ] <local_intf_mac>
<remote_intf_mac> ]
```

### Syntax Description

|                                |   |
|--------------------------------|---|
| show                           | Show running system information               |
| cdp                            | Show Cisco Discovery Protocol information     |
| neighbors                      | Show CDP neighbors                            |
| detail                         | Show CDP neighbors detailed                   |
| interface                      | (Optional) Show CDP neighbors on an interface |
| <i>if</i>                      | (Optional) Specify Interface                  |
| <i>__readonly__</i>            | (Optional) Read only                          |
| TABLE_cdp_neighbor_detail_info | (Optional) output of show cdp neighbor detail |
| <i>ifindex</i>                 | (Optional) Interface index                    |
| <i>device_id</i>               | (Optional) Device Identifier                  |
| <i>sysname</i>                 | (Optional) System Name                        |
| <i>vtpname</i>                 | (Optional) Vtp Management Domain Name         |
| <i>numaddr</i>                 | (Optional) No of IP Address configured        |
| <i>v4addr</i>                  | (Optional) Interface IP V4 Address            |
| <i>v6addr</i>                  | (Optional) Interface IP V6 Address            |
| <i>platform_id</i>             | (Optional) Platform Id                        |
| <i>capability</i>              | (Optional) Capability                         |
| <i>intf_id</i>                 | (Optional) Interface Id                       |
| <i>port_id</i>                 | (Optional) Port Identifier                    |
| <i>ttl</i>                     | (Optional) Hold Time                          |
| <i>version</i>                 | (Optional) Software Version                   |
| <i>version_no</i>              | (Optional) CDP version number                 |
| <i>nativevlan</i>              | (Optional) NativeVLAN                         |



|                        |  |
|------------------------|--|
| <i>duplexmode</i>      | (Optional) Duplex Mode                   |
| <i>mtu</i>             | (Optional) MTU                           |
| <i>syslocation</i>     | (Optional) System Location               |
| <i>num_mgmtaddr</i>    | (Optional) No of Mgmt Address configured |
| <i>v4mgmtaddr</i>      | (Optional) IP V4 Mgmt Address            |
| <i>v6mgmtaddr</i>      | (Optional) IP V6 Mgmt Address            |
| <i>local_intf_mac</i>  | (Optional) Local interface MAC           |
| <i>remote_intf_mac</i> | (Optional) Remote interface MAC          |

**Command Mode**

- /exec

## show cdp traffic interface2

```
show cdp traffic interface2 <if2> [ __readonly__ <intf_id> <total_input_packets> <valid_cdp_packets>
<input_v1_packets> <input_v2_packets> <invalid_cdp_packets> <unsupported_version> <checksum_errors>
<malformed_packets> <total_output_packets> <output_v1_packets> <output_v2_packets> <send_errors>
<flap_cnt> ]
```

### Syntax Description

|                             |   |
|-----------------------------|---|
| show                        | Show running system information               |
| cdp                         | Show Cisco Discovery Protocol information     |
| traffic                     | Show CDP traffic statistics                   |
| interface2                  | Show CDP traffic statistics on an interface   |
| <i>if2</i>                  |   |
| <i>__readonly__</i>         | (Optional) Read only                          |
| <i>intf_id</i>              | (Optional) Interface Id                       |
| <i>total_input_packets</i>  | (Optional) Total input cdp packets            |
| <i>valid_cdp_packets</i>    | (Optional) Total valid cdp packets            |
| <i>input_v1_packets</i>     | (Optional) Input vesrion1 packets             |
| <i>input_v2_packets</i>     | (Optional) Input vesrion2 packets             |
| <i>invalid_cdp_packets</i>  | (Optional) Invalid cdp packets                |
| <i>unsupported_version</i>  | (Optional) Packets having unsupported version |
| <i>checksum_errors</i>      | (Optional) Packets having checksum errors     |
| <i>malformed_packets</i>    | (Optional) Total malformed packets            |
| <i>total_output_packets</i> | (Optional) Total output packets               |
| <i>output_v1_packets</i>    | (Optional) Output vesrion1 packets            |
| <i>output_v2_packets</i>    | (Optional) Output vesrion2 packets            |
| <i>send_errors</i>          | (Optional) Number of send errors              |
| <i>flap_cnt</i>             | (Optional) Number of PDU timeout              |

### Command Mode

- /exec

## show cdp traffic interface2 all

```
show cdp traffic interface2 all [ __readonly__ TABLE_cdp_traffic <intf_id> <total_input_packets>
<valid_cdp_packets> <input_v1_packets> <input_v2_packets> <invalid_cdp_packets> <unsupported_version>
<checksum_errors> <malformed_packets> <total_output_packets> <output_v1_packets> <output_v2_packets>
<send_errors> <flap_cnt> ]
```

### Syntax Description

|                             |   |
|-----------------------------|---|
| show                        | Show running system information               |
| cdp                         | Show Cisco Discovery Protocol information     |
| traffic                     | Show CDP traffic statistics                   |
| interface2                  | Show CDP traffic statistics on an interface   |
| all                         | Display all interface traffic                 |
| <i>__readonly__</i>         | (Optional) Read only                          |
| <i>TABLE_cdp_traffic</i>    | (Optional) output of show cdp traffic         |
| <i>intf_id</i>              | (Optional) Interface Id                       |
| <i>total_input_packets</i>  | (Optional) Total input cdp packets            |
| <i>valid_cdp_packets</i>    | (Optional) Total valid cdp packets            |
| <i>input_v1_packets</i>     | (Optional) Input vesrion1 packets             |
| <i>input_v2_packets</i>     | (Optional) Input vesrion2 packets             |
| <i>invalid_cdp_packets</i>  | (Optional) Invalid cdp packets                |
| <i>unsupported_version</i>  | (Optional) Packets having unsupported version |
| <i>checksum_errors</i>      | (Optional) Packets having checksum errors     |
| <i>malformed_packets</i>    | (Optional) Total malformed packets            |
| <i>total_output_packets</i> | (Optional) Total output packets               |
| <i>output_v1_packets</i>    | (Optional) Output vesrion1 packets            |
| <i>output_v2_packets</i>    | (Optional) Output vesrion2 packets            |
| <i>send_errors</i>          | (Optional) Number of send errors              |
| <i>flap_cnt</i>             | (Optional) Number of PDU timeout              |

### Command Mode

- /exec

## show cfs application

```
show cfs application [ { name <cfs-dyn-app-name> | sap <i0> } ] [ __readonly__ [ <enabled> <timeout>
<merge_capable> <scope> <region> ] [ { TABLE_apps <app_name> <app_enabled> <app_scope> } ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                       |
| cfs                     | CFS Show Command handler                              |
| application             | Show locally registered applications                  |
| name                    | (Optional) Show local application information by name |
| <i>cfs-dyn-app-name</i> | (Optional) Registered name of the local application   |
| sap                     | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED             |
| <i>i0</i>               | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED             |
| <i>__readonly__</i>     | (Optional)  |
| <i>enabled</i>          | (Optional) whether application is CFS enabled         |
| <i>timeout</i>          | (Optional) timeout                                    |
| <i>merge_capable</i>    | (Optional) merge_capable                              |
| <i>scope</i>            | (Optional) scope                                      |
| <i>region</i>           | (Optional) region                                     |
| TABLE_apps              | (Optional) all cfs applications                       |
| <i>app_name</i>         | (Optional) name of cfs application                    |
| <i>app_enabled</i>      | (Optional) whether application is cfs enabled         |
| <i>app_scope</i>        | (Optional) distribution scope of cfs application      |

### Command Mode

- /exec

# show cfs lock

```
show cfs lock [ { name <cfs-dyn-app-name> | sap <i1> } ] [ __readonly__ [ { TABLE_locks [ <app_name>
] <app_scope> [ <vsan> ] [ <domain> ] [ <wwn> ] <ip_addr> <u_name> <u_type> [ <hostname> } ] ] ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                                   |
| cfs                     | CFS Show Command handler  |
| lock                    | Show state of application's logical/physical locks                |
| name                    | (Optional) Application name for which the lock status is required |
| <i>cfs-dyn-app-name</i> | (Optional) Registered name of the local application               |
| sap                     | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| <i>i1</i>               | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| <i>__readonly__</i>     | (Optional)  |
| TABLE_locks             | (Optional) table of all CFS locks                                 |
| <i>app_name</i>         | (Optional) name of CFS application                                |
| <i>app_scope</i>        | (Optional) scope of CFS application                               |
| <i>vsan</i>             | (Optional) vsan   |
| <i>domain</i>           | (Optional) domain   |
| <i>wwn</i>              | (Optional) wwn of switch holding CFS lock                         |
| <i>ip_addr</i>          | (Optional) ip address of switch holding CFS lock                  |
| <i>u_name</i>           | (Optional) user name  |
| <i>u_type</i>           | (Optional) user type  |
| <i>hostname</i>         | (Optional) hostname   |

## Command Mode

- /exec

## show cfs merge status

```
show cfs merge status [ { name <cfs-dyn-app-name> [ detail ] | sap <i1> [ detail2 ] } ] [ __readonly__ [ {
scope <scope> } ] [ { merge_status <status> } ] [ { failure_reason <reason> } ] [ { TABLE_all_merge
<app_name> <scope> <vsan> <status> } ] [ { TABLE_local_fabric [ <domain> ] <wwn> <ip_addr>
<app_scope> [ <master> ] [ <hostname> ] } ] [ { TABLE_remote_fabric [ <domain> ] <wwn> <ip_addr>
<app_scope> [ <master> ] [ <hostname> ] } ] [ { TABLE_remaining_fabric [ <domain> ] <wwn> <ip_addr>
[ <hostname> ] } ] ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                     |
| cfs                     | CFS Show Command handler                            |
| merge                   | Show cfs merge information                          |
| status                  | Show status of merge                                |
| name                    | (Optional) Show merge status by name                |
| <i>cfs-dyn-app-name</i> | (Optional) Registered name of the local application |
| detail                  | (Optional) Show merge status by name in detail      |
| sap                     | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED           |
| <i>il</i>               | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED           |
| detail2                 | (Optional) Show merge status by sap in detail       |
| __readonly__            | (Optional)  |
| scope                   | (Optional) distribution scope of application        |
| <i>scope</i>            | (Optional) scope                                    |
| merge_status            | (Optional) status                                   |
| <i>status</i>           | (Optional) status                                   |
| failure_reason          | (Optional) reason                                   |
| <i>reason</i>           | (Optional) reason                                   |
| TABLE_all_merge         | (Optional) all                                      |
| <i>app_name</i>         | (Optional) name                                     |
| <i>scope</i>            | (Optional) scope                                    |
| <i>vsan</i>             | (Optional) vsan                                     |
| <i>status</i>           | (Optional) status                                   |

|                        |                          |
|------------------------|--------------------------|
| TABLE_local_fabric     | (Optional) local fabric  |
| <i>domain</i>          | (Optional) domain        |
| <i>wwn</i>             | (Optional) wwn           |
| <i>ip_addr</i>         | (Optional) ip_addr       |
| <i>app_scope</i>       | (Optional) scope         |
| <i>master</i>          | (Optional) master        |
| <i>hostname</i>        | (Optional) hname         |
| TABLE_remote_fabric    | (Optional) remote fabric |
| <i>domain</i>          | (Optional) domain        |
| <i>wwn</i>             | (Optional) wwn           |
| <i>ip_addr</i>         | (Optional) ip_addr       |
| <i>app_scope</i>       | (Optional) scope         |
| <i>master</i>          | (Optional) master        |
| <i>hostname</i>        | (Optional) hname         |
| TABLE_remaining_fabric | (Optional) remote fabric |
| <i>domain</i>          | (Optional) domain        |
| <i>wwn</i>             | (Optional) wwn           |
| <i>ip_addr</i>         | (Optional) ip_addr       |
| <i>hostname</i>        | (Optional) hname         |

**Command Mode**

- /exec

# show cfs peers

```
show cfs peers [ { name <cfs-dyn-app-name> | sap <i1> } ] [ __readonly__ [ { scope <scope> } ] [ {
TABLE_peers <wwn> <ip_addr> [ <local> ] [ <hostname> ] [ <domain> ] } ] ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                     |
| cfs                     | CFS Show Command handler                            |
| peers                   | Show all the peers in the physical fabric           |
| name                    | (Optional) Show peers for given application name    |
| <i>cfs-dyn-app-name</i> | (Optional) Registered name of the local application |
| sap                     | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED           |
| <i>i1</i>               | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED           |
| __readonly__            | (Optional)  |
| scope                   | (Optional) scope                                    |
| <i>scope</i>            | (Optional) scope                                    |
| TABLE_peers             | (Optional) all peers                                |
| <i>wwn</i>              | (Optional) wwn                                      |
| <i>ip_addr</i>          | (Optional) ip_addr                                  |
| <i>local</i>            | (Optional) local                                    |
| <i>hostname</i>         | (Optional) hname                                    |
| <i>domain</i>           | (Optional) domain                                   |

## Command Mode

- /exec



## show cfs regions

```
show cfs regions [ { brief [ region <i0> ] | name <cfs-dyn-app-name> | region1 <i1> } ] [ __readonly__ [ {
region <id> } ] [ { application <name> } ] [ { scope <scope> } ] [ { TABLE_PEERS <wwn> <ip_addr>
<local> [ <hostname> ] [ <domain> } ] [ { TABLE_switches [ <wwn> ] [ <ip_addr> ] <region> <app_name>
<enabled> [ <scope> } ] ] ]
```

### Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information                                      |
| cfs                     | CFS Show Command handler   |
| regions                 | Show all the applications with peers and region information          |
| brief                   | (Optional) Show all configured regions and applications(no peers)    |
| region                  | (Optional) Show all configured applications(no peers)                |
| <i>i0</i>               | (Optional) Region Id   |
| name                    | (Optional) Show peers and region information for a given application |
| <i>cfs-dyn-app-name</i> | (Optional) Registered name of the local application                  |
| region1                 | (Optional) Show all configured applications with peers               |
| <i>i1</i>               | (Optional) Region Id   |
| __readonly__            | (Optional)   |
| region                  | (Optional) region  |
| <i>id</i>               | (Optional) id  |
| application             | (Optional) app   |
| <i>name</i>             | (Optional) name  |
| scope                   | (Optional) scope   |
| <i>scope</i>            | (Optional) scope   |
| TABLE_PEERS             | (Optional) all region peers  |
| <i>wwn</i>              | (Optional) wwn   |
| <i>ip_addr</i>          | (Optional) ip_address  |
| <i>local</i>            | (Optional) local   |
| <i>hostname</i>         | (Optional) hname   |
| <i>domain</i>           | (Optional) domain  |

|                       |                                   |
|-----------------------|-----------------------------------|
| <i>TABLE_switches</i> | (Optional) all switches in region |
| <i>wwn</i>            | (Optional) wwn                    |
| <i>ip_addr</i>        | (Optional) ip_addr                |
| <i>region</i>         | (Optional) region                 |
| <i>app_name</i>       | (Optional) name                   |
| <i>enabled</i>        | (Optional) enabled                |
| <i>scope</i>          | (Optional) scope                  |

**Command Mode**

- /exec

## show cfs status

```
show cfs status [ __readonly__ <distribution> <dist_over_ip> <ipv4_mcast_addr> <ipv6_mcast_addr>
<dist_over_eth> ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information                   |
| cfs                    | CFS Show Command handler                          |
| status                 | Show current status of CFS                        |
| <i>__readonly__</i>    | (Optional)  |
| <i>distribution</i>    | (Optional) operational status of CFS distribution |
| <i>dist_over_ip</i>    | (Optional) operational status of CFS overIP       |
| <i>ipv4_mcast_addr</i> | (Optional) ipv4 multicast address                 |
| <i>ipv6_mcast_addr</i> | (Optional) ipv6 multicast address                 |
| <i>dist_over_eth</i>   | (Optional) operations status of CFSoE             |

### Command Mode

- /exec

# show checkpoint

show checkpoint <chkpoint\_name> [ all ] [ \_\_readonly\_\_ TABLE\_checkpoint\_details <name1>  
<checkpoint\_config> + ]

## Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information                 |
| checkpoint               | Show configuration rollback checkpoint contents |
| <i>chkpoint_name</i>     | Checkpoint name                                 |
| all                      | (Optional) Show default config                  |
| __readonly__             | (Optional) Read only                            |
| TABLE_checkpoint_details | (Optional) Checkpoint details                   |
| <i>name1</i>             | (Optional) Checkpoint name                      |
| <i>checkpoint_config</i> | (Optional) Configuration entry from checkpoint  |

## Command Mode

- /exec

# show checkpoint

```
show checkpoint [ all ] [ user | system ] [ __readonly__ TABLE_checkpoint_details <name>
<checkpoint_config> + ]
```

## Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information                                |
| checkpoint               | Show configuration rollback checkpoints                        |
| all                      | (Optional) Show default config                                 |
| user                     | (Optional) Show only user configuration rollback checkpoints   |
| system                   | (Optional) Show only system configuration rollback checkpoints |
| __readonly__             | (Optional) Read only   |
| TABLE_checkpoint_details | (Optional) checkpoint details                                  |
| <i>name</i>              | (Optional) Checkpoint name                                     |
| <i>checkpoint_config</i> | (Optional) Configuration entry from checkpoint                 |

## Command Mode

- /exec

## show checkpoint summary

```
show checkpoint summary [ user | system ] [ __readonly__ TABLE_checkpoint_header_info <name>
<user_name> <timestamp> <file_path> <chkpt_type> <description> ]
```

### Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show running system information  |
| checkpoint                   | Show configuration rollback checkpoints                                |
| summary                      | Show configuration rollback checkpoints summary                        |
| user                         | (Optional) Show only user configuration rollback checkpoints summary   |
| system                       | (Optional) Show only system configuration rollback checkpoints summary |
| __readonly__                 | (Optional) Read only   |
| TABLE_checkpoint_header_info | (Optional) Checkpoint header info                                      |
| <i>user_name</i>             | (Optional) Username  |
| <i>name</i>                  | (Optional) Checkpoint name   |
| <i>file_path</i>             | (Optional) Checkpoint name   |
| <i>timestamp</i>             | (Optional) Timestamp of checkpoint creation                            |
| <i>chkpt_type</i>            | (Optional) Type of checkpoint either user or system                    |
| <i>description</i>           | (Optional) Checkpoint description                                      |

### Command Mode

- /exec

## show class-map

```
show class-map [ { [ type qos ] [ <omap-name> | xxx <color-map-enum-name> ] } | { type queuing [ yyy
<omap-enum-name> | zzz <default-omap-enum-name> | <omap-dce-name> <omap-name-hque> ] } ] [
__readonly__ { [ <display-all> ] [ TABLE_omap [ <omap-key> ] [ <nq-omap-key> ] [ <nq-omap-name> ] [
<nq-cos-list> ] [ <nq-qos-group-list> ] [ <protocol> ] [ <id> ] <xqos-or-q> [ <any_or_all> ] <omap-name-out>
[ <desc> ] [ <nq-desc> ] [ TABLE_match <match-key> [ <not> ] [ <dscp-list> ] [ <precedence-list> ] [
<cos-list> ] [ <qos-group-list> ] [ <discard-class-list> ] [ <vlan-list> ] [ <match-omap-name> ] [
<match-acl-name> ] [ <note-string> ] [ <pkt-len-list> ] [ <rtp-port-list> ] [ <roce-port-list> ] [ <prot> ] [
<input-iface-list> ] [ <exp-list> ] [ <cl-def> ] ] ] ] }
```

### Syntax Description

|                               |  |
|-------------------------------|--|
| xxx                           | (Optional) xxx                             |
| yyy                           | (Optional) yyy                             |
| zzz                           | (Optional) zzz                             |
| show                          | Show running system information            |
| class-map                     | Show class maps                            |
| type                          | (Optional) Type of the class-map           |
| qos                           | (Optional) type qos                        |
| queuing                       | (Optional) type queuing                    |
| <i>omap-name</i>              | (Optional) class map name                  |
| <i>omap-enum-name</i>         | (Optional)                                 |
| <i>default-omap-enum-name</i> | (Optional)                                 |
| <i>omap-dce-name</i>          | (Optional) Queuing class-map name          |
| <i>omap-name-hque</i>         | (Optional) Hierarchical class-map name     |
| <i>color-map-enum-name</i>    | (Optional)                                 |
| <i>__readonly__</i>           | (Optional)                                 |
| <i>display-all</i>            | (Optional) Display all kinds of class-maps |
| TABLE_omap                    | (Optional) all omap xml sessions           |
| <i>omap-key</i>               | (Optional) Class-map name: xml key         |
| <i>nq-omap-key</i>            | (Optional) Class-map name nq: xml key      |
| <i>nq-omap-name</i>           | (Optional) Class-map xname                 |
| <i>protocol</i>               | (Optional) protocol                        |

|                           |  |
|---------------------------|--|
| <i>TABLE_match</i>        | (Optional) all match xml sessions  |
| <i>match-key</i>          | (Optional) match count: xml key  |
| <i>cmap-name-out</i>      | (Optional) Class-map name  |
| <i>xqos-or-q</i>          | (Optional)   |
| <i>any_or_all</i>         | (Optional) Enter match-any or match-all                                  |
| <i>id</i>                 | (Optional) Class-map ID  |
| <i>desc</i>               | (Optional) Description string  |
| <i>nq-desc</i>            | (Optional) Description xstring   |
| <i>not</i>                | (Optional) Negate this match result                                      |
| <i>dscp-list</i>          | (Optional) List of DSCP values   |
| <i>precedence-list</i>    | (Optional) List of precedence values                                     |
| <i>cos-list</i>           | (Optional) List of class-of-service values                               |
| <i>nq-cos-list</i>        | (Optional) List of class-of-service values                               |
| <i>qos-group-list</i>     | (Optional) List of qos-group values                                      |
| <i>nq-qos-group-list</i>  | (Optional) List of qos-group values                                      |
| <i>discard-class-list</i> | (Optional) List of discard-class values                                  |
| <i>vlan-list</i>          | (Optional) List of vlan-ids  |
| <i>match-cmap-name</i>    | (Optional) class-map name  |
| <i>match-acl-name</i>     | (Optional) Match class-map name  |
| <i>note-string</i>        | (Optional) Placeholder string param to display any info in string format |
| <i>pkt-len-list</i>       | (Optional) Packet length multi-range                                     |
| <i>rtp-port-list</i>      | (Optional) IP RTP UDP port multi-range                                   |
| <i>roce-port-list</i>     | (Optional) IP ROCE UDP port multi-range                                  |
| <i>prot</i>               | (Optional) Protocol  |
| <i>input-iface-list</i>   | (Optional) Input Interface multi-range                                   |
| <i>exp-list</i>           | (Optional) List of MPLS exp values                                       |
| <i>cl-def</i>             | (Optional) Match any criteria for class-default only                     |

**Command Mode**

- /exec



## show class-map type control-plane

```
show class-map type control-plane [ <omap-name> ] [ __readonly__ [ { TABLE_omap <omap-key>
<omap-name-out> <opt_any_or_all> [ TABLE_match <match-key> [ access_grp <acc_grp_name> ] [ redirect
<opt_match_redirect> ] [ exception <opt_match_except> ] [ protocol <opt_match_protocol> ] ] } ] ]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                  |
| class-map                 | Show class maps                                  |
| type                      | Type of the class-map                            |
| control-plane             | This is for copp policy                          |
| <i>omap-name</i>          | (Optional) Name of the class-map                 |
| <i>__readonly__</i>       | (Optional)                                       |
| TABLE_omap                | (Optional) all omap xml sessions                 |
| <i>omap-name-out</i>      | (Optional) Name of the class-map                 |
| <i>omap-key</i>           | (Optional) Class-map name: xml key               |
| <i>opt_any_or_all</i>     | (Optional) Enter match-any or match-all          |
| TABLE_match               | (Optional) all match xml sessions                |
| <i>match-key</i>          | (Optional) match count: xml key                  |
| access_grp                | (Optional)                                       |
| <i>acc_grp_name</i>       | (Optional)                                       |
| redirect                  | (Optional)                                       |
| <i>opt_match_redirect</i> | (Optional) Match criteria for redirected packets |
| exception                 | (Optional)                                       |
| <i>opt_match_except</i>   | (Optional) Match criteria for exception packets  |
| protocol                  | (Optional)                                       |
| <i>opt_match_protocol</i> | (Optional) Match criteria for protocol packets   |

### Command Mode

- /exec

## show class-map type network-qos

```
show class-map type network-qos [ <cmmap-name-nq> ] [ __readonly__ { [ <display-all> ] [ TABLE_cmap
<cmmap-key> <xcmmap-name> [ <desc> ] [ <cos-list> ] [ <qos-group-list> ] [ <protocol> ] ] } ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information               |
| class-map             | Show class maps                               |
| type                  | Type of the class-map                         |
| <i>cmmap-name-nq</i>  | (Optional) Class-map name                     |
| network-qos           | type network-qos                              |
| <i>__readonly__</i>   | (Optional)                                    |
| <i>display-all</i>    | (Optional) Display all network-qos class-maps |
| TABLE_cmap            | (Optional) all network-qos cmap xml sessions  |
| <i>cmmap-key</i>      | (Optional) Class-map name: xml key            |
| <i>desc</i>           | (Optional) Description string                 |
| <i>xcmmap-name</i>    | (Optional) Class-map name                     |
| <i>protocol</i>       | (Optional) protocol                           |
| <i>cos-list</i>       | (Optional) List of class-of-service values    |
| <i>qos-group-list</i> | (Optional) List of qos-group values           |

### Command Mode

- /exec

# show cli alias

```
show cli alias [ name <s0> ] [ __readonly__ { TABLE_cli_alias <alias> <name> } ]
```

## Syntax Description

|                 |                                     |
|-----------------|-------------------------------------|
| show            | Show running system information     |
| cli             | Show CLI information                |
| alias           | Display the alias configuration     |
| name            | (Optional) Display a specific alias |
| s0              | (Optional) Specify the alias        |
| __readonly__    | (Optional)                          |
| TABLE_cli_alias | (Optional) cli alias table          |
| alias           | (Optional) alias                    |
| name            | (Optional) name                     |

## Command Mode

- /exec

# show cli dynamic-cmd

show cli dynamic-cmd

## Syntax Description

|             |   |
|-------------|---|
| show        | Show running system information           |
| cli         | CLI commands                              |
| dynamic-cmd | Display the list of dynamic commands(cli) |

## Command Mode

- /exec

# show cli dynamic integers

```
show cli dynamic integers [ <name> ] [ __readonly__ TABLE_dynamic_integers <name-o> <min> <max> ]
```

## Syntax Description

|                               |   |
|-------------------------------|---|
| <i>show</i>                   | Show running system information                     |
| <i>cli</i>                    | CLI commands  |
| <i>dynamic</i>                | Display current range of dynamic parameters         |
| <i>integers</i>               | Display current range of dynamic integer parameters |
| <i>name</i>                   | (Optional) name of the dynamic parameter            |
| <i>__readonly__</i>           | (Optional)  |
| <i>TABLE_dynamic_integers</i> | (Optional)  |
| <i>name-o</i>                 | (Optional)  |
| <i>min</i>                    | (Optional)  |
| <i>max</i>                    | (Optional)  |

## Command Mode

- /exec

## show cli dynamic strings

show cli dynamic strings [ <name> ] [ \_\_readonly\_\_ TABLE\_dynamic\_strings <name-o> <value> + ]

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                    |
| cli                   | CLI commands                                       |
| dynamic               | Display current range of dynamic parameters        |
| strings               | Display current range of dynamic string parameters |
| <i>name</i>           | (Optional) name of the dynamic parameter           |
| <i>__readonly__</i>   | (Optional)   |
| TABLE_dynamic_strings | (Optional)   |
| <i>name-o</i>         | (Optional)   |
| <i>value</i>          | (Optional)   |

### Command Mode

- /exec

# show cli history

show cli history [ this-mode-only | exec-mode | config-mode ] [ <count> | unformatted ] +

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                    |
| cli            | debug cli  |
| history        | history of cli commands                            |
| <i>count</i>   | (Optional) number of lines to display (from end)   |
| unformatted    | (Optional) display just the commands               |
| this-mode-only | (Optional) display history from current mode only  |
| exec-mode      | (Optional) display history of exec commands only   |
| config-mode    | (Optional) display history of config commands only |

## Command Mode

- /exec

# show cli interface table

show cli interface table

## Syntax Description

|           |           |
|-----------|-----------|
| show      | show      |
| cli       | cli       |
| interface | interface |
| table     | table     |

## Command Mode

- /exec



# show cli list

show cli list [ detail | recurse | <component> | <max-per-cmd> | has-xml-out ] +

## Syntax Description

|                    |                                 |
|--------------------|---------------------------------|
| show               | Show running system information |
| cli                | Show CLI information            |
| list               | show                            |
| <i>component</i>   | (Optional) component            |
| <i>max-per-cmd</i> | (Optional) max                  |
| has-xml-out        | (Optional) show                 |
| recurse            | (Optional) go                   |
| detail             | (Optional) formats              |

## Command Mode

- /exec

# show cli syntax

show cli syntax [ long | recurse ] + [ has-xml-out | has-no-xml-out | is-data-modeled ] [ roles [ network-admin | network-operator | <roles-mask> ] ]

## Syntax Description

|                   |                                 |
|-------------------|---------------------------------|
| show              | Show running system information |
| cli               | Show CLI information            |
| syntax            | show                            |
| long              | (Optional) use                  |
| recurse           | (Optional) also                 |
| has-xml-out       | (Optional) show                 |
| has-no-xml-out    | (Optional) show                 |
| is-data-modeled   | (Optional) show                 |
| roles             | (Optional) show                 |
| network-admin     | (Optional) show                 |
| network-operator  | (Optional) show                 |
| <i>roles-mask</i> | (Optional) show                 |

## Command Mode

- /exec

# show cli variables

```
show cli variables [ __readonly__ <switchname> <timestamp> [ { TABLE_variable <key> <value> } ] [ {
TABLE_session_variable <key> <value> } ] ]
```

## Syntax Description

|                        |                                   |
|------------------------|-----------------------------------|
| show                   | Show running system information   |
| cli                    | Show CLI information              |
| variables              | Show CLI variables                |
| <i>__readonly__</i>    | (Optional)                        |
| <i>switchname</i>      | (Optional) Switch Name            |
| <i>timestamp</i>       | (Optional) Timestamp              |
| TABLE_variable         | (Optional) Variable table         |
| <i>key</i>             | (Optional) key                    |
| <i>value</i>           | (Optional) value                  |
| TABLE_session_variable | (Optional) Session variable table |
| <i>key</i>             | (Optional) key                    |
| <i>value</i>           | (Optional) value                  |

## Command Mode

- /exec

# show clock

```
show clock [ detail ] [ __readonly__ { <simple_time> <time_source> [ <daylight_zone> <daylight_start_week>
<daylight_start_weekday> <daylight_start_month> <daylight_start_time> <daylight_end_week>
<daylight_end_weekday> <daylight_end_month> <daylight_end_time> <daylight_utc_min_offset> } } ]
```

## Syntax Description

|                                |  |
|--------------------------------|--|
| show                           | Show running system information                              |
| clock                          | Display current Date   |
| detail                         | (Optional) Display current date and summertime configuration |
| __readonly__                   | (Optional)   |
| <i>simple_time</i>             | (Optional) simple clock format                               |
| <i>time_source</i>             | (Optional) Time source                                       |
| <i>daylight_zone</i>           | (Optional) summer-time daylight zone                         |
| <i>daylight_start_week</i>     | (Optional) daylight start week                               |
| <i>daylight_start_weekday</i>  | (Optional) daylight start weekday                            |
| <i>daylight_start_month</i>    | (Optional) daylight start month                              |
| <i>daylight_start_time</i>     | (Optional) daylight start time                               |
| <i>daylight_end_week</i>       | (Optional) daylight end week                                 |
| <i>daylight_end_weekday</i>    | (Optional) daylight end weekday                              |
| <i>daylight_end_month</i>      | (Optional) daylight end month                                |
| <i>daylight_end_time</i>       | (Optional) daylight end time                                 |
| <i>daylight_utc_min_offset</i> | (Optional) daylight utc offset                               |

## Command Mode

- /exec

# show config-profile

```
show config-profile [ name <all_conf_profile_name> ] [ __readonly__ TABLE_conf_profile_all
<conf_profile_name> { [ <conf_profile_desc> ] <conf_profile_cfg> + [ <conf_profile_applied> ] + [
<conf_profile_include> ] + } ]
```

## Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information                    |
| config-profile                | Show config-profiles                               |
| name                          | (Optional) config-profile name                     |
| <i>all_conf_profile_name</i>  | (Optional) Enter the name of configuration profile |
| <i>__readonly__</i>           | (Optional)   |
| <i>TABLE_conf_profile_all</i> | (Optional)   |
| <i>conf_profile_name</i>      | (Optional)   |
| <i>conf_profile_desc</i>      | (Optional)   |
| <i>conf_profile_cfg</i>       | (Optional)   |
| <i>conf_profile_applied</i>   | (Optional)   |
| <i>conf_profile_include</i>   | (Optional)   |

## Command Mode

- /exec

## show config-profile applied

```
show config-profile { applied [ auto | manually ] | non-applied } [ match-name <profile_substring> ] [
__readonly__ [ <profiles> ] + ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information   |
| config-profile           | Show config-profiles  |
| applied                  | List of config-profiles that are applied                                    |
| auto                     | (Optional) List of config-profiles that are applied via auto-config         |
| manually                 | (Optional) List of all config-profiles which were applied directly from cli |
| non-applied              | List of config-profiles that are not applied                                |
| match-name               | (Optional) List of all config-profiles that have matching sub-string        |
| __readonly__             | (Optional)  |
| <i>profiles</i>          | (Optional)  |
| <i>profile_substring</i> | (Optional) Enter a substring to match with config-profile name              |

### Command Mode

- /exec

## show config-replace log exec

```
show config-replace log { exec | verify } [ __readonly__ [ <log_entry> + ] ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                 |
| config-replace      | Show config-replace                             |
| log                 | show config-replace log                         |
| exec                | show config-replace execution log               |
| verify              | show config-replace verify log                  |
| <i>__readonly__</i> | (Optional) Read only                            |
| <i>log_entry</i>    | (Optional) log entry from configure replace log |

### Command Mode

- /exec

## show config-replace status

```
show config-replace status [ __readonly__ <last_operation> [ <config_replace_type> ] [ <name> ] [
<start_time> ] [ <end_time> ] [ <operation_status> ] [ <commit_status> ] [ <commit_timeout_remaining> ]
]
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information                 |
| config-replace                  | show config-replace                             |
| status                          | show status of last configure replace operation |
| <i>__readonly__</i>             | (Optional) Read only                            |
| <i>last_operation</i>           | (Optional) last operation                       |
| <i>config_replace_type</i>      | (Optional) config-replace type                  |
| <i>name</i>                     | (Optional) name                                 |
| <i>start_time</i>               | (Optional) start time                           |
| <i>end_time</i>                 | (Optional) end time                             |
| <i>operation_status</i>         | (Optional) operation status                     |
| <i>commit_status</i>            | (Optional) Commit status                        |
| <i>commit_timeout_remaining</i> | (Optional) commit timeout remaining             |

### Command Mode

- /exec



# show config-template

```
show config-template [ [ <template-name> ] [ status [ { vrf <vrf-name> } ] ] [ __readonly__ { TABLE_profile
<name> <refcount> <type> [ TABLE_cfg <cfg> ] [ TABLE_status <vrfname> <status> } ] ]
```

## Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information                         |
| config-template      | config-template   |
| <i>template-name</i> | (Optional) config-template name                         |
| status               | (Optional) config-template status                       |
| vrf                  | (Optional) VRF referencing config-template              |
| <i>vrf-name</i>      | (Optional) config-template name                         |
| __readonly__         | (Optional)  |
| TABLE_profile        | (Optional)  |
| <i>name</i>          | (Optional) config-template name                         |
| <i>refcount</i>      | (Optional) Ref count of VRFs using this config-template |
| <i>type</i>          | (Optional) config-template type                         |
| TABLE_cfg            | (Optional)  |
| <i>cfg</i>           | (Optional) profile config                               |
| TABLE_status         | (Optional)  |
| <i>vrfname</i>       | (Optional) profile config                               |
| <i>status</i>        | (Optional) profile status                               |

## Command Mode

- /exec

# show configuration session

```
show configuration session <s3> [ __readonly__ <ssn-name> [ TABLE_session_details [ <ssn-cmd-num> ]
[ <command> ] ] ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                |
| configuration         | Show information about configuration sessions  |
| session               | Show active configuration sessions             |
| s3                    | Shows configuration session given a name       |
| __readonly__          | (Optional) Read only                           |
| ssn-name              | (Optional)                                     |
| TABLE_session_details | (Optional) Show session details for given name |
| ssn-cmd-num           | (Optional)                                     |
| command               | (Optional)                                     |

## Command Mode

- /exec

# show configuration session

```
show configuration session [ __readonly__ [ TABLE_session_all <ssn-name> [ TABLE_session_all_cmd [
<ssn-cmd-num> ] [ <command> ] ] ] <activesesscnt> ]
```

## Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show running system information                    |
| configuration                | Show information about configuration sessions      |
| session                      | Show active configuration sessions                 |
| <i>__readonly__</i>          | (Optional) Read only                               |
| <i>TABLE_session_all</i>     | (Optional) Show session table                      |
| <i>ssn-name</i>              | (Optional)   |
| <i>TABLE_session_all_cmd</i> | (Optional) Show session related commands           |
| <i>ssn-cmd-num</i>           | (Optional)   |
| <i>command</i>               | (Optional)   |
| <i>activesesscnt</i>         | (Optional) Number of active configuration sessions |

## Command Mode

- /exec

# show configuration session global-info

```
show configuration session global-info [ __readonly__ <max-ssns> <max-cmds> <curr-num-ssns>
<curr-num-cmds> ]
```

## Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information               |
| configuration        | Show information about configuration sessions |
| session              | Show active configuration sessions            |
| global-info          | Show configuration sessions global-info       |
| __readonly__         | (Optional) Read only                          |
| <i>max-ssns</i>      | (Optional)                                    |
| <i>max-cmds</i>      | (Optional)                                    |
| <i>curr-num-ssns</i> | (Optional)                                    |
| <i>curr-num-cmds</i> | (Optional)                                    |

## Command Mode

- /exec

# show configuration session status

```
show configuration session status [ <s3> ] [ __readonly__ [ TABLE_session_status <ssn-name> <last-action>
<ac-status> <ac-reason> <ac-tstamp> [ <failed-cmd-num> ] [ <failed-cmd> ] [ <last-vfy-cmd-num> ] [
<last-vfy-cmd> ] [ <last-vfy-tstamp> ] [ <rollback-status> ] ] ]
```

## Syntax Description

|                      |  |
|----------------------|--|
| show                 | Show running system information                            |
| configuration        | Show information about configuration sessions              |
| session              | Show active configuration sessions                         |
| status               | Show configuration session-mgr status                      |
| s3                   | (Optional) Shows configuration session status given a name |
| __readonly__         | (Optional) Read only                                       |
| TABLE_session_status | (Optional) Show session status table                       |
| ssn-name             | (Optional)   |
| last-action          | (Optional) Last Action                                     |
| ac-status            | (Optional) Last Action Status                              |
| ac-reason            | (Optional) Last Action Reason                              |
| ac-tstamp            | (Optional) Last Action Timestamp                           |
| failed-cmd-num       | (Optional) Failed Command Number                           |
| failed-cmd           | (Optional) Failed Command                                  |
| last-vfy-cmd-num     | (Optional) Last Verified Command Number                    |
| last-vfy-cmd         | (Optional) Last Verified Command                           |
| last-vfy-tstamp      | (Optional) Last Verified Command Timestamp                 |
| rollback-status      | (Optional) Rollback Status                                 |

## Command Mode

- /exec

# show configuration session summary

```
show configuration session summary [ __readonly__ [ TABLE_session_summary <ssn-name> <username>
<tstamp> ] [ <activesesscnt> ] ]
```

## Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show running system information                    |
| configuration                | Show information about configuration sessions      |
| session                      | Show active configuration sessions                 |
| summary                      | Show summary of the active configuration sessions  |
| <i>__readonly__</i>          | (Optional) Read only                               |
| <i>TABLE_session_summary</i> | (Optional) Show session summary table              |
| <i>ssn-name</i>              | (Optional)   |
| <i>username</i>              | (Optional) Session Owner                           |
| <i>tstamp</i>                | (Optional) Creation Time                           |
| <i>activesesscnt</i>         | (Optional) Number of active configuration sessions |

## Command Mode

- /exec

# show configuration session vsh

```
show configuration session <s3> vsh [ __readonly__ <ssn-name> [ TABLE_session_details_vsh [
<ssn-cmd-num> ] [ <command> ] ] ]
```

## Syntax Description

|                                  |   |
|----------------------------------|---|
| show                             | Show running system information                       |
| configuration                    | Show information about configuration sessions         |
| session                          | Show active configuration sessions                    |
| <i>s3</i>                        | Shows configuration session given a name              |
| vsh                              |   |
| <i>__readonly__</i>              | (Optional) Read only                                  |
| <i>TABLE_session_details_vsh</i> | (Optional) Show session details for given name on vsh |
| <i>ssn-name</i>                  | (Optional)  |
| <i>ssn-cmd-num</i>               | (Optional)  |
| <i>command</i>                   | (Optional)  |

## Command Mode

- /exec

# show consistency-checker kim

show consistency-checker kim

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| consistency-checker | Consistency Checker             |
| kim                 | Kernel Interface                |

## Command Mode

- /exec



# show consistency-checker kim interface

```
show consistency-checker kim { interface <ifid> } [ brief | detail ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                                 |
| consistency-checker | Consistency Checker   |
| kim                 | kernel interface  |
| interface           | Limit display to interface                                      |
| <i>ifid</i>         | Interface   |
| brief               | (Optional) Show consistency checker structured output in brief  |
| detail              | (Optional) Show consistency checker structured output in detail |

## Command Mode

- /exec

## show consistency-checker l2 multicast group source vlan

show consistency-checker l2 multicast group <grp-address> source <src-address> vlan <vlan-id> [ debug-logs ] [ brief | detail ]

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                                 |
| consistency-checker | Consistency Checker   |
| l2                  | Verify l2 mac programming in the hardware                       |
| multicast           | multicast related information                                   |
| group               | Do consistency check for group                                  |
| <i>grp-address</i>  | group IP address  |
| source              | Do consistency check for source                                 |
| <i>src-address</i>  | source IP address   |
| vlan                | Do consistency check for vlan                                   |
| <i>vlan-id</i>      | vlan number   |
| debug-logs          | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                       |
| brief               | (Optional) Show consistency checker structured output in brief  |
| detail              | (Optional) Show consistency checker structured output in detail |

### Command Mode

- /exec

## show consistency-checker l3 multicast source vrf

```
show consistency-checker l3 multicast [ group { <grp-address> [ <mask> ] | <gprefix> } ] source <src-address>
vrf <vrf-string> [ debug-logs ] [ brief | detail ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                                 |
| consistency-checker | Consistency Checker   |
| l3                  | l3 consistency  |
| multicast           | multicast related information                                   |
| group               | (Optional) Do consistency check for group                       |
| <i>grp-address</i>  | (Optional) group IP address                                     |
| <i>mask</i>         | (Optional) mask for group ip address                            |
| <i>gprefix</i>      | (Optional) IPv4 Multicast Group Prefix                          |
| source              | Do consistency check for source                                 |
| <i>src-address</i>  | source IP address   |
| vrf                 | Do consistency check for vrf                                    |
| <i>vrf-string</i>   | Vrf string  |
| debug-logs          | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                       |
| brief               | (Optional) Show consistency checker structured output in brief  |
| detail              | (Optional) Show consistency checker structured output in detail |

### Command Mode

- /exec

# show consistency-checker link-state fabric-ieth

```
show consistency-checker link-state fabric-ieth { [ module <module> ] } [ brief | detail ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                                 |
| consistency-checker | Consistency Checker   |
| link-state          | Compares software and hardware link state of interfaces         |
| fabric-ieth         | Internal Fabric ports   |
| module              | (Optional) Limit display to interfaces on module                |
| <i>module</i>       | (Optional) Enter module number                                  |
| brief               | (Optional) Show consistency checker structured output in brief  |
| detail              | (Optional) Show consistency checker structured output in detail |

## Command Mode

- /exec

# show controller accounting log

show controller <ctrl-id> accounting log

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| controller     | Controller command              |
| <i>ctrl-id</i> | Controller id value             |
| accounting     | Accounting                      |
| log            | Show log information            |

## Command Mode

- /exec

## show copp status

```
show copp status [ __readonly__ { last_config_operation <last_cfg_oper> } { last_config_operation_time
<last_cfg_oper_time> } { last_config_operation_status <last_cfg_oper_status> } [
last_config_operation_error_time <last_cfg_oper_error_time> ] [ last_config_operation_error
<last_cfg_oper_error> ] { service_policy <srv_policy> } ]
```

### Syntax Description

|                                  |   |
|----------------------------------|---|
| show                             | Show running system information                       |
| copp                             | Control-Plane Policing                                |
| status                           | Show the internal status of CoPP                      |
| <i>__readonly__</i>              | (Optional)  |
| last_config_operation            | (Optional) last config operation                      |
| <i>last_cfg_oper</i>             | (Optional) last config operation                      |
| last_config_operation_time       | (Optional) timestamp of last config operation         |
| <i>last_cfg_oper_time</i>        | (Optional) timestamp of last config operation         |
| last_config_operation_status     | (Optional) status of last config operation            |
| <i>last_cfg_oper_status</i>      | (Optional) status of last config operation            |
| last_config_operation_error_time | (Optional) timestamp of last config operation's error |
| <i>last_cfg_oper_error_time</i>  | (Optional) timestamp of last config operation's error |
| last_config_operation_error      | (Optional) last config operation's error              |
| <i>last_cfg_oper_error</i>       | (Optional) last config operation's error              |
| service_policy                   | (Optional) policy-map attached to control-plane       |
| <i>srv_policy</i>                | (Optional) policy-map attached to control-plane       |

### Command Mode

- /exec

# show copyright

show copyright [ *\_\_readonly\_\_* { *<content>* } ]

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| copyright           | Copyright information           |
| <i>__readonly__</i> | (Optional)                      |
| <i>content</i>      | (Optional) Copyrigh information |

## Command Mode

- /exec

# show cores

```
show cores [ vdc-all | { vdc [ <e-vdc2> | <vdc-id> ] } ] [ __readonly__ { [ TABLE_cores <vdc_id>
<module_id> <instance> <process_name> <pid> <sys_time> ] } ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information            |
| cores               | show all core dumps for the current vdc    |
| vdc-all             | (Optional) show core dumps from all vdes   |
| vdc                 | (Optional) show all core dumps for the vdc |
| __readonly__        | (Optional)                                 |
| TABLE_cores         | (Optional)                                 |
| <i>vdc_id</i>       | (Optional) vdc id                          |
| <i>module_id</i>    | (Optional) module id                       |
| <i>instance</i>     | (Optional) instance number                 |
| <i>process_name</i> | (Optional) name of the process             |
| <i>pid</i>          | (Optional) process id                      |
| <i>sys_time</i>     | (Optional) core generate time              |
| <i>e-vdc2</i>       | (Optional) Enter VDC <vdc-id>              |
| <i>vdc-id</i>       | (Optional) vdc number                      |

## Command Mode

- /exec



## show crypto ca certificates

```
show crypto ca certificates <s0> [ __readonly__ { Trustpoint <trustpoint> } [ { Certificate <certificate> } ]
[ { TABLE_ca_cert_chains <index> <ca_certificate> } ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information              |
| crypto                | show crypto configuration                    |
| ca                    | show trustpoint configuration                |
| certificates          | show various certificates                    |
| <i>s0</i>             | trustpoint label                             |
| <i>__readonly__</i>   | (Optional)                                   |
| Trustpoint            | (Optional) Trustpoint                        |
| <i>trustpoint</i>     | (Optional) Trustpoint                        |
| Certificate           | (Optional) Certificate                       |
| <i>certificate</i>    | (Optional) Certificate                       |
| TABLE_ca_cert_chains  | (Optional) Table of CA certificates in chain |
| <i>index</i>          | (Optional) CA Certificate Index              |
| <i>ca_certificate</i> | (Optional) CA certificate                    |

### Command Mode

- /exec

## show crypto ca certificates

```
show crypto ca certificates [ __readonly__ [ { TABLE_ca_certificates <trustpoint> [ <certificate> ] [ {
TABLE_ca_cert_chains <index> <ca_certificate> } ] } ] ]
```

### Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show running system information              |
| crypto                       | show crypto configuration                    |
| ca                           | show trustpoint configuration                |
| certificates                 | show various certificates                    |
| <i>__readonly__</i>          | (Optional)                                   |
| <i>TABLE_ca_certificates</i> | (Optional) Table of CA certificates          |
| <i>trustpoint</i>            | (Optional) Trustpoint name                   |
| <i>certificate</i>           | (Optional) Certificate                       |
| <i>TABLE_ca_cert_chains</i>  | (Optional) Table of CA certificates in chain |
| <i>index</i>                 | (Optional) CA Certificate Index              |
| <i>ca_certificate</i>        | (Optional) CA certificate                    |

### Command Mode

- /exec

# show crypto ca certstore

```
show crypto ca certstore [ __readonly__ { certstore_lookup <lookup_type> } ]
```

## Syntax Description

|                    |                                     |
|--------------------|-------------------------------------|
| show               | Show running system information     |
| crypto             | Show crypto configuration           |
| ca                 | show crypto ca configuration        |
| certstore          | Show the configured certstore       |
| __readonly__       | (Optional)                          |
| certstore_lookup   | (Optional) Certificate store lookup |
| <i>lookup_type</i> | (Optional) Lookup type              |

## Command Mode

- /exec

# show crypto ca crl

show crypto ca crl <s0> [ \_\_readonly\_\_ { Trustpoint <trustpoint> } [ { CRL <crl> } ] ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| crypto       | show crypto configuration              |
| ca           | show trustpoint configuration          |
| crl          | show CRL                               |
| s0           | trustpoint label                       |
| __readonly__ | (Optional)                             |
| Trustpoint   | (Optional) Trustpoint                  |
| trustpoint   | (Optional) Trustpoint                  |
| CRL          | (Optional) Certificate Revocation List |
| crl          | (Optional) Certificate Revocation List |

## Command Mode

- /exec

## show crypto ca remote-certstore

```
show crypto ca remote-certstore [ __readonly__ { remote_cert_store <rem_cert_store> } [ { crl_timer <crltimer>
} { ldap_server_group <ldap_server_grp> } ] ]
```

### Syntax Description

|                        |                                     |
|------------------------|-------------------------------------|
| show                   | Show running system information     |
| crypto                 | Show crypto configuration           |
| ca                     | show crypto ca configuration        |
| remote-certstore       | Show remote certstore configuration |
| __readonly__           | (Optional)                          |
| remote_cert_store      | (Optional) Remote cert store        |
| <i>rem_cert_store</i>  | (Optional) Remote certificate store |
| crl_timer              | (Optional) CRL timer                |
| <i>crltimer</i>        | (Optional) CRL timer                |
| ldap_server_group      | (Optional) LDAP Server Group        |
| <i>ldap_server_grp</i> | (Optional) LDAP Server Group        |

### Command Mode

- /exec

## show crypto ca trustpoints

```
show crypto ca trustpoints [ __readonly__ [ { TABLE_ca_truspoints <trustpoint> <key-pair> [ {
TABLE_revocation_methods <revocation-method> } ] [ <ocsp-url> ] } ] ]
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information        |
| crypto                   | show crypto configuration              |
| ca                       | show trustpoint configuration          |
| trustpoints              | show trustpoint configuration          |
| <i>__readonly__</i>      | (Optional)                             |
| <i>trustpoint</i>        | (Optional) Trustpoint                  |
| <i>key-pair</i>          | (Optional) Key pair                    |
| TABLE_revocation_methods | (Optional) Table of revocation methods |
| <i>revocation-method</i> | (Optional) Revocation mehtod           |
| <i>ocsp-url</i>          | (Optional) OCSP URL                    |
| TABLE_ca_truspoints      | (Optional) Table of CA trustpoints     |

### Command Mode

- /exec

# show crypto ca trustpool

```
show crypto ca trustpool [ __readonly__ [ { TABLE_ca_trustpool <serial-number> <subject> <issued-by>
<validity-start> <validity-end> } ] ]
```

## Syntax Description

|                           |                                  |
|---------------------------|----------------------------------|
| show                      | Show running system information  |
| crypto                    | show crypto information          |
| ca                        | show trustpool data              |
| trustpool                 | trustpool contents               |
| <i>__readonly__</i>       | (Optional)                       |
| <i>TABLE_ca_trustpool</i> | (Optional) Table of CA trustpool |
| <i>serial-number</i>      | (Optional) Serial number         |
| <i>subject</i>            | (Optional) subject               |
| <i>issued-by</i>          | (Optional) Issued by             |
| <i>validity-start</i>     | (Optional) validity start date   |
| <i>validity-end</i>       | (Optional) validity end date     |

## Command Mode

- /exec

## show crypto ca trustpool last download status

```
show crypto ca trustpool last download status [ __readonly__ [ http_url <http_url> ] [ download_time
<download_time> ] [ trustpool_download_status <status> ] [ download_failure <reason> ] ]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                |
| crypto                    | show crypto information                        |
| ca                        | show trustpool data                            |
| trustpool                 | trustpool data                                 |
| last                      | last trustpool download status                 |
| download                  | download of trustpool                          |
| status                    | download status                                |
| <i>__readonly__</i>       | (Optional)                                     |
| http_url                  | (Optional) http url configured                 |
| <i>http_url</i>           | (Optional) HTTP url                            |
| download_time             | (Optional) Download time                       |
| <i>download_time</i>      | (Optional) Download time                       |
| trustpool_download_status | (Optional) Status of trustpool policy download |
| <i>status</i>             | (Optional) Download status                     |
| download_failure          | (Optional) Download failure                    |
| <i>reason</i>             | (Optional) Download failure reason             |

### Command Mode

- /exec



# show crypto ca trustpool policy

```
show crypto ca trustpool policy [ __readonly__ [ http_url <http_url> ] [ config_vrf [ <config_vrf> ] [ <src_intf>
] ] [ proxy_server [ <proxy_server> ] [ <proxy_server_port> ] ] ]
```

## Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information           |
| crypto                   | show crypto information                   |
| ca                       | show Certificate authority related config |
| trustpool                | show trustpool policy                     |
| policy                   | trustpool configuration                   |
| <i>__readonly__</i>      | (Optional)                                |
| http_url                 | (Optional) http url configured            |
| <i>http_url</i>          | (Optional) HTTP url                       |
| config_vrf               | (Optional) Configured vrf                 |
| <i>config_vrf</i>        | (Optional) vrf configured                 |
| <i>src_intf</i>          | (Optional) source interface for vrf       |
| proxy_server             | (Optional) Configured proxy server        |
| <i>proxy_server</i>      | (Optional) proxy server                   |
| <i>proxy_server_port</i> | (Optional) proxy server port              |

## Command Mode

- /exec

# show crypto certificatemap

```
show crypto certificatemap [ __readonly__ [ { TABLE_certmap <map_name> <subject_name>
<alternate_email> <alternate_upn> } ] ]
```

## Syntax Description

|                        |                                     |
|------------------------|-------------------------------------|
| show                   | Show running system information     |
| crypto                 | show crypto configuration           |
| certificatemap         | show certificatemap filters         |
| <i>__readonly__</i>    | (Optional)                          |
| <i>TABLE_certmap</i>   | (Optional) Table of Certificate Map |
| <i>map_name</i>        | (Optional) Map name                 |
| <i>subject_name</i>    | (Optional) Subject name             |
| <i>alternate_email</i> | (Optional) Alternate Email          |
| <i>alternate_upn</i>   | (Optional) Alternate UPN            |

## Command Mode

- /exec

## show crypto key mypubkey rsa

```
show crypto key mypubkey rsa [ __readonly__ [ { TABLE_rsa_keys <key_label> <key_size> <exportable>
<err_string> } ] ]
```

### Syntax Description

|                       |                                       |
|-----------------------|---------------------------------------|
| show                  | Show running system information       |
| crypto                | show crypto configuration             |
| key                   | show key configuration                |
| mypubkey              | show my public keys configuration     |
| rsa                   | show my rsa public keys configuration |
| <i>__readonly__</i>   | (Optional)                            |
| <i>TABLE_rsa_keys</i> | (Optional) Table of RSA keys          |
| <i>key_label</i>      | (Optional) Key Label                  |
| <i>key_size</i>       | (Optional) Key size                   |
| <i>exportable</i>     | (Optional) Exportable                 |
| <i>err_string</i>     | (Optional) Error String               |

### Command Mode

- /exec

## show crypto ssh-auth-map

```
show crypto ssh-auth-map [ __readonly__ [ { TABLE_ssh_auth_map <issuer_name> <map1> [ <map2> ] } ] ]
```

### Syntax Description

|                    |   |
|--------------------|---|
| show               | Show running system information                     |
| crypto             | show crypto configuration                           |
| ssh-auth-map       | show mapping filters applied for ssh authentication |
| __readonly__       | (Optional)  |
| TABLE_ssh_auth_map | (Optional) Table of SSH Auth MAP                    |
| <i>issuer_name</i> | (Optional) Issuer Name                              |
| <i>map1</i>        | (Optional) Map 1                                    |
| <i>map2</i>        | (Optional) Map 2                                    |

### Command Mode

- /exec

# show cts

show cts [ *\_\_readonly\_\_* <device-id> <cache\_en> <num-dot1x> <num-man> <sgt> ]

## Syntax Description

|                     |  |
|---------------------|--|
| <i>cts</i>          | Show CTS global configuration                  |
| <i>__readonly__</i> | (Optional)                                     |
| <i>device-id</i>    | (Optional) name                                |
| <i>cache_en</i>     | (Optional) enable/disable                      |
| <i>num-dot1x</i>    | (Optional) number of interfaces in dot1x mode  |
| <i>num-man</i>      | (Optional) number of interfaces in manual mode |
| <i>sgt</i>          | (Optional)                                     |

## Command Mode

- /exec

# show current

show current

## Syntax Description

|         |  |
|---------|--|
| show    | Display region configurations            |
| current | Display mst configuration currently used |

## Command Mode

- /exec/configure/spanning-tree/mst/configuration



## D Show Commands

---

- [show dampening interface](#), on page 280
- [show diagnostic bootup level](#), on page 281
- [show diagnostic description module test all](#), on page 282
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- [show dot1x interface](#), on page 300
- [show dot1x interface client statistics](#), on page 304
- [show dot1x interface client statistics address](#), on page 306

# show dampening interface

show dampening interface [ \_\_readonly\_\_ { <DampenedInterfaceCount> <SuppressedInterfaceCount> } ]

## Syntax Description

|                                 |  |
|---------------------------------|--|
| show                            | Show running system information                          |
| dampening                       | Display dampening information                            |
| interface                       | Display interface dampening general information          |
| __readonly__                    | (Optional)   |
| <i>DampenedInterfaceCount</i>   | (Optional) Count of interfaces configured with dampening |
| <i>SuppressedInterfaceCount</i> | (Optional) Count of interfaces in suppressed state       |

## Command Mode

- /exec



# show diagnostic bootup level

show diagnostic bootup level [ *\_\_readonly\_\_* <bootup\_level> ]

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information          |
| diagnostic          | Diagnostic commands                      |
| bootup              | Show diagnostic bootup information       |
| level               | Show diagnostic bootup level information |
| <i>__readonly__</i> | (Optional)                               |
| <i>bootup_level</i> | (Optional) Bootup level                  |

## Command Mode

- /exec

# show diagnostic description module test all

```
show diagnostic description module <module> test { all | <name> | <test-id> } [ __readonly__ { TABLE_desc
<testname> <testdesc> } ]
```

## Syntax Description

|                 |                                      |
|-----------------|--------------------------------------|
| show            | Show running system information      |
| diagnostic      | Diagnostic commands                  |
| description     | Show diagnostic test desc            |
| module          | Module keyword                       |
| <i>module</i>   | Module Number                        |
| test            | Diagnostic test selection            |
| all             | Select all test ID                   |
| <i>name</i>     | Test name                            |
| <i>test-id</i>  |                                      |
| __readonly__    | (Optional)                           |
| TABLE_desc      | (Optional) Table of test description |
| <i>testname</i> | (Optional) Test name                 |
| <i>testdesc</i> | (Optional) Description of the test   |

## Command Mode

- /exec

# show diagnostic events

```
show diagnostic events [ error | info ] [ __readonly__ { TABLE_events <event_text> } ]
```

## Syntax Description

|                   |                                   |
|-------------------|-----------------------------------|
| show              | Show running system information   |
| diagnostic        | Diagnostic commands               |
| events            | Diagnostic events                 |
| error             | (Optional) Error event-type       |
| info              | (Optional) Information event-type |
| __readonly__      | (Optional)                        |
| TABLE_events      | (Optional) list of events logged  |
| <i>event_text</i> | (Optional) Text of one event      |

## Command Mode

- /exec

# show diagnostic result module

```
show diagnostic result module <module> [ test { <name> | <test-id> } ] [ [ detail ] | [ statistics ] ] [
  __readonly__ <module_id> <curr_diag_level> <module_name> [ <bootup_diag_level> ] [ { TABLE_TestStat
  <stat_testid> <stat_testname> { TABLE_StatDetail <port_no> <packet_tx> <packet_rx> <packet_loss> } }
  ] [ { TABLE_Test <test_id> <testname> [ <testresult> ] [ { <passed_ports> <failed_ports> <incomplete_ports>
  <untested_ports> <aborted_ports> <err_disabled_ports> } ] [ { <err_code> <total_run_count>
  <last_execution_time> <first_failure_time> <last_failure_time> <last_pass_time> <total_fail_count>
  <consecutive_fail_count> <last_fail_reason> <next_execution_time> } } ] ] ] ]
```

## Syntax Description

|                          |                                       |
|--------------------------|---------------------------------------|
| show                     | Show running system information       |
| diagnostic               | Diagnostic commands                   |
| result                   | Show diagnostic test result           |
| module                   | Module keyword                        |
| <i>module</i>            | Module number                         |
| test                     | (Optional) Diagnostic test selection  |
| <i>test-id</i>           | (Optional)                            |
| <i>name</i>              | (Optional) Test name                  |
| detail                   | (Optional) Detailed result            |
| statistics               | (Optional) Result statistics          |
| <i>__readonly__</i>      | (Optional)                            |
| <i>module_id</i>         | (Optional) Module ID                  |
| <i>curr_diag_level</i>   | (Optional) Current diag level         |
| <i>module_name</i>       | (Optional) Module name                |
| <i>bootup_diag_level</i> | (Optional) Diagnostic level at bootup |
| TABLE_TestStat           | (Optional) Statistics table           |
| <i>stat_testid</i>       | (Optional) Test id                    |
| <i>stat_testname</i>     | (Optional) Test name                  |
| TABLE_StatDetail         | (Optional) Table stats detail         |
| <i>port_no</i>           | (Optional) Port Number                |
| <i>packet_tx</i>         | (Optional) Packet Tx                  |
| <i>packet_rx</i>         | (Optional) Packet Rx                  |

|                               |  |
|-------------------------------|--|
| <i>packet_loss</i>            | (Optional) Packet lost                       |
| TABLE_Test                    | (Optional) Table of tests in module          |
| <i>test_id</i>                | (Optional) Test id of tests                  |
| <i>testname</i>               | (Optional) Test name                         |
| <i>testresult</i>             | (Optional) Test Results                      |
| <i>passed_ports</i>           | (Optional) List passed ports                 |
| <i>failed_ports</i>           | (Optional) List failed ports                 |
| <i>incomplete_ports</i>       | (Optional) List of Incompletely tested ports |
| <i>untested_ports</i>         | (Optional) List of untested ports            |
| <i>aborted_ports</i>          | (Optional) List of aborted ports             |
| <i>err_disabled_ports</i>     | (Optional) List error disabled ports         |
| <i>err_code</i>               | (Optional) Error code                        |
| <i>total_run_count</i>        | (Optional) Total run count                   |
| <i>last_execution_time</i>    | (Optional) Last execution time               |
| <i>first_failure_time</i>     | (Optional) First test failure time           |
| <i>last_failure_time</i>      | (Optional) Last test failure time            |
| <i>last_pass_time</i>         | (Optional) Last test pass time               |
| <i>total_fail_count</i>       | (Optional) Total fail count                  |
| <i>consecutive_fail_count</i> | (Optional) Consecutive failure count         |
| <i>last_fail_reason</i>       | (Optional) Last failure reason               |
| <i>next_execution_time</i>    | (Optional) Next test execution time          |

**Command Mode**

- /exec

## show diagnostic result module all

```
show diagnostic result module all [ detail ] [ __readonly__ { TABLE_Module <module_id> <curr_diag_level>
<module_name> [ <bootup_diag_level> ] { TABLE_Test <test_id> <testname> [ <testresult> ] [ {
<passed_ports> <failed_ports> <incomplete_ports> <untested_ports> <aborted_ports> <err_disabled_ports>
} ] [ { <err_code> <total_run_count> <last_execution_time> <first_failure_time> <last_failure_time>
<last_pass_time> <total_fail_count> <consecutive_fail_count> <last_fail_reason> <next_execution_time>
} ] } ] }
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information              |
| diagnostic                | Diagnostic commands                          |
| result                    | Show diagnostic test result                  |
| module                    | Module keyword                               |
| all                       | Select all test ID                           |
| detail                    | (Optional) Detailed result                   |
| __readonly__              | (Optional)                                   |
| TABLE_Module              | (Optional) Table of modules                  |
| <i>module_id</i>          | (Optional) Module ID                         |
| <i>curr_diag_level</i>    | (Optional) Current diag level                |
| <i>module_name</i>        | (Optional) Module name                       |
| <i>bootup_diag_level</i>  | (Optional) Diagnostic level at bootup        |
| TABLE_Test                | (Optional) Table of tests in module          |
| <i>test_id</i>            | (Optional) Test id of tests                  |
| <i>testname</i>           | (Optional) Test name                         |
| <i>testresult</i>         | (Optional) Test Results                      |
| <i>passed_ports</i>       | (Optional) List passed ports                 |
| <i>failed_ports</i>       | (Optional) List failed ports                 |
| <i>incomplete_ports</i>   | (Optional) List of Incompletely tested ports |
| <i>untested_ports</i>     | (Optional) List of untested ports            |
| <i>aborted_ports</i>      | (Optional) List of aborted ports             |
| <i>err_disabled_ports</i> | (Optional) List error disabled ports         |

|                               |                                      |
|-------------------------------|--------------------------------------|
| <i>err_code</i>               | (Optional) Error code                |
| <i>total_run_count</i>        | (Optional) Total run count           |
| <i>last_execution_time</i>    | (Optional) Last execution time       |
| <i>first_failure_time</i>     | (Optional) First test failure time   |
| <i>last_failure_time</i>      | (Optional) Last test failure time    |
| <i>last_pass_time</i>         | (Optional) Last test pass time       |
| <i>total_fail_count</i>       | (Optional) Total fail count          |
| <i>consecutive_fail_count</i> | (Optional) Consecutive failure count |
| <i>last_fail_reason</i>       | (Optional) Last failure reason       |
| <i>next_execution_time</i>    | (Optional) Next test execution time  |

**Command Mode**

- /exec

# show diff rollback-patch

```
show diff rollback-patch { src-checkpoint <chkpoint_name> | src-running-cfg | src-startup-cfg | src-file
<srcfile_uri> } { dst-checkpoint <chkpoint_name> | dst-running-cfg | dst-startup-cfg | dst-file <dstfile_uri>
} [ __readonly__ [ <patch_entry> ] + ]
```

## Syntax Description

|                      |  |
|----------------------|--|
| show                 | Show running system information                                |
| diff                 | Show diff between configuration files or checkpoints           |
| rollback-patch       | Show rollback patch between configuration files or checkpoints |
| src-checkpoint       | Use checkpoint as source configuration                         |
| <i>chkpoint_name</i> | Checkpoint name  |
| src-running-cfg      | Use running configuration as source                            |
| src-startup-cfg      | Use startup configuration as source                            |
| src-file             | Src Checkpoint file  |
| <i>srcfile_uri</i>   | Src Checkpoint file path                                       |
| dst-checkpoint       | Use checkpoint as destination configuration                    |
| <i>chkpoint_name</i> | Checkpoint name  |
| dst-running-cfg      | Use running configuration as destination                       |
| dst-startup-cfg      | Use startup configuration as destination                       |
| dst-file             | Dst Checkpoint file  |
| <i>dstfile_uri</i>   | Src Checkpoint file path                                       |
| <i>__readonly__</i>  | (Optional) Read only   |
| <i>patch_entry</i>   | (Optional) rollback patch entry                                |

## Command Mode

- /exec



# show dot1q-tunnel

```
show dot1q-tunnel [ __readonly__ TABLE_interface <interface> ]
```

## Syntax Description

|                  |                                   |
|------------------|-----------------------------------|
| show             | Show running system information   |
| dot1q-tunnel     | Show if port mode is dot1q-tunnel |
| __readonly__     | (Optional) Read Only              |
| <i>interface</i> | (Optional) Interface index        |
| TABLE_interface  | (Optional) show interface         |

## Command Mode

- /exec

# show dot1q-tunnel interface

show dot1q-tunnel interface <ifid\_eth\_dot1q\_tunnel> [ \_\_readonly\_\_ TABLE\_interface <interface> ]

## Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information                       |
| dot1q-tunnel                 | Show if port mode is dot1q-tunnel                     |
| interface                    | Show interface status and information                 |
| <i>ifid_eth_dot1q_tunnel</i> | Enter interface type and number in module/slot format |
| <i>__readonly__</i>          | (Optional) Read Only                                  |
| <i>interface</i>             | (Optional) Interface index                            |
| TABLE_interface              | (Optional) show interface                             |

## Command Mode

- /exec

# show dot1x

```
show dot1x [ __readonly__ <sys_auth_ctrl> <proto_ver> <mac_move> ]
```

## Syntax Description

|                            |                                     |
|----------------------------|-------------------------------------|
| <code>dot1x</code>         | dot1x configuration commands        |
| <code>__readonly__</code>  | (Optional)                          |
| <code>sys_auth_ctrl</code> | (Optional) show system auth control |
| <code>proto_ver</code>     | (Optional) show protocol version    |
| <code>mac_move</code>      | (Optional) show mac move            |

## Command Mode

- /exec

## show dot1x all

```
show dot1x all [ __readonly__ <sys_auth_ctrl> <proto_ver> <mac_move> TABLE_all <if_index>
TABLE_allpae <pae_type> [ <port_control> ] [ <host_mode> ] [ <quiet_period> ] [ <inactivity_period> ] [
<tx_period> ] [ <max_req> ] [ <reauth> ] [ <rate_limit_period> ] [ <supp_timeout> ] [ <server_timeout> ] [
<reauth_server> ] [ <reauth_period> ] [ <reauth_max> ] [ <mac_auth_bypass> ] [ <start_period> ] [
<auth_period> ] [ <held_period> ] [ <max_start> ] ]
```

### Syntax Description

| dot1x                    | dot1x configuration commands                 |
|--------------------------|--|
| all                      | Show information for all interfaces          |
| <i>__readonly__</i>      | (Optional)                                   |
| TABLE_all                | (Optional)                                   |
| TABLE_allpae             | (Optional)                                   |
| <i>if_index</i>          | (Optional) Interface Index                   |
| <i>sys_auth_ctrl</i>     | (Optional) Show System Auth Control          |
| <i>proto_ver</i>         | (Optional) Show Protocol Version             |
| <i>mac_move</i>          | (Optional) Show Mac Move                     |
| <i>pae_type</i>          | (Optional) Show PAE Type                     |
| <i>port_control</i>      | (Optional) Show Port Control                 |
| <i>host_mode</i>         | (Optional) Show Host Mode                    |
| <i>reauth</i>            | (Optional) Show Reauth Enabled Status        |
| <i>quiet_period</i>      | (Optional) Show Quiet Period                 |
| <i>inactivity_period</i> | (Optional) Show Inactivity Period            |
| <i>server_timeout</i>    | (Optional) Show Server Timeout               |
| <i>supp_timeout</i>      | (Optional) Show Supp Timeout                 |
| <i>reauth_period</i>     | (Optional) Show Reauth Period                |
| <i>reauth_max</i>        | (Optional) Show Reauth Max                   |
| <i>max_req</i>           | (Optional) Show Max Req                      |
| <i>tx_period</i>         | (Optional) Show Tx Period                    |
| <i>rate_limit_period</i> | (Optional) Show Rate Limit Period            |
| <i>reauth_server</i>     | (Optional) Show Reauth Server Enabled Status |

|                        |  |
|------------------------|--|
| <i>mac_auth_bypass</i> | (Optional) Show MAC Auth Bypass Enabled Status |
| <i>start_period</i>    | (Optional) Show Supplicant Start Period        |
| <i>auth_period</i>     | (Optional) Show Supplicant Auth Period         |
| <i>held_period</i>     | (Optional) Show Supplicant Held Period         |
| <i>max_start</i>       | (Optional) Show Supplicant Max Start           |

**Command Mode**

- /exec

## show dot1x all details

```
show dot1x all details [ __readonly__ <sys_auth_ctrl> <proto_ver> <mac_move> TABLE_alldetail <if_index>
TABLE_allpaedetail <pae_type> [ <port_control> ] [ <host_mode> ] [ <quiet_period> ] [ <inactivity_period>
] [ <tx_period> ] [ <max_req> ] [ <reauth> ] [ <rate_limit_period> ] [ <supp_timeout> ] [ <server_timeout>
] [ <reauth_server> ] [ <reauth_period> ] [ <reauth_max> ] [ <mac_auth_bypass> ] [ <no_of_clients> ] [
<port_status_no_clients> ] [ { TABLE_if_auth_clients [ <supp_mac_addr> ] [ <auth_domain> ] [
<auth_sm_state> ] [ <auth_bend_sm_state> ] [ <port_status> ] [ <authentication_method> ] [
<authenticated_by> ] [ <reauth_period_client> ] [ <reauth_action> ] [ <time_to_next_reauth> ] [ <auth_vlan>
] } ] [ <start_period> ] [ <auth_period> ] [ <held_period> ] [ <max_start> ] [ <no_of_supp_clients> ] [
<auth_mac_addr> ] [ <supp_sm_state> ] [ <supp_bend_sm_state> ] [ <supp_port_status> ] ]
```

### Syntax Description

|                       |                                       |
|-----------------------|---------------------------------------|
| dot1x                 | dot1x configuration commands          |
| all                   | Show information for all interfaces   |
| details               | 802.1x details                        |
| <i>__readonly__</i>   | (Optional)                            |
| TABLE_alldetail       | (Optional)                            |
| TABLE_allpaedetail    | (Optional)                            |
| TABLE_if_auth_clients | (Optional)                            |
| <i>if_index</i>       | (Optional) Interface Index            |
| <i>sys_auth_ctrl</i>  | (Optional) Show System Auth Control   |
| <i>proto_ver</i>      | (Optional) Show Protocol Version      |
| <i>mac_move</i>       | (Optional) Show Mac Move              |
| <i>pae_type</i>       | (Optional) Show PAE Type              |
| <i>port_control</i>   | (Optional) Show Port Control          |
| <i>host_mode</i>      | (Optional) Show Host Mode             |
| <i>reauth</i>         | (Optional) Show Reauth Enabled Status |
| <i>quiet_period</i>   | (Optional) Show Quiet Period          |
| <i>server_timeout</i> | (Optional) Show Server Timeout        |
| <i>supp_timeout</i>   | (Optional) Show Supp Timeout          |
| <i>reauth_period</i>  | (Optional) Show Reauth Period         |
| <i>reauth_max</i>     | (Optional) Show Reauth Max            |

|                               |   |
|-------------------------------|---|
| <i>max_req</i>                | (Optional) Show Max Req                             |
| <i>tx_period</i>              | (Optional) Show Tx Period                           |
| <i>rate_limit_period</i>      | (Optional) Show Rate Limit Period                   |
| <i>inactivity_period</i>      | (Optional) Show Inactivity Period                   |
| <i>reauth_server</i>          | (Optional) Show Reauth Server Enabled Status        |
| <i>mac_auth_bypass</i>        | (Optional) Show MAC Auth Bypass Enabled Status      |
| <i>no_of_clients</i>          | (Optional) Show Supplicant Clients                  |
| <i>port_status_no_clients</i> | (Optional) Show Port Status if there are no clients |
| <i>supp_mac_addr</i>          | (Optional) Show Supplicant MAC Address              |
| <i>auth_domain</i>            | (Optional) Show Supplicant Auth Domain              |
| <i>auth_sm_state</i>          | (Optional) Show Authenticator SM State              |
| <i>auth_bend_sm_state</i>     | (Optional) Show Authenticator Backend State         |
| <i>port_status</i>            | (Optional) Show Port Status                         |
| <i>authentication_method</i>  | (Optional) show authentication method               |
| <i>authenticated_by</i>       | (Optional) show authenticated by                    |
| <i>reauth_period_client</i>   | (Optional) Show Reauth Period                       |
| <i>reauth_action</i>          | (Optional) Show Reauthentication Action             |
| <i>time_to_next_reauth</i>    | (Optional) Show Time to Next Reauth                 |
| <i>auth_vlan</i>              | (Optional) Show Vlan                                |
| <i>start_period</i>           | (Optional) Show Supplicant Start Period             |
| <i>auth_period</i>            | (Optional) Show Supplicant Auth Period              |
| <i>held_period</i>            | (Optional) Show Supplicant Held Period              |
| <i>max_start</i>              | (Optional) Show Supplicant Max Start                |
| <i>no_of_supp_clients</i>     | (Optional) Show Supplicant Clients                  |
| <i>auth_mac_addr</i>          | (Optional) Show Authenticator MAC Address           |
| <i>supp_sm_state</i>          | (Optional) Show Supplicant SM State                 |
| <i>supp_bend_sm_state</i>     | (Optional) Show Supplicant Backend SM State         |
| <i>supp_port_status</i>       | (Optional) Show Supplicant Port Status              |

**Command Mode**

- /exec



## show dot1x all statistics

```
show dot1x all statistics [ __readonly__ TABLE_allstat <if_index> TABLE_allpaestat <pae_type> [ <rxstart>
] [ <rxlogoff> ] [ <rxresp> ] [ <rxrespid> ] [ <rxinvalid> ] [ <rxlenerr> ] [ <rxtotal> ] [ <txreq> ] [ <txreqid>
] [ <txtotal> ] [ <rxversion> ] [ <lastrxsourcemac> ] [ <rxreq> ] [ <rxsuppinvalid> ] [ <rxsupplenerr> ] [
<rxsupptotal> ] [ <txstart> ] [ <txlogoff> ] [ <txresp> ] [ <txsupptotal> ] [ <rxsuppversion> ] [ <lastrxsrmac>
] ]
```

### Syntax Description

| dot1x                  | dot1x configuration commands                    |
|------------------------|---|
| all                    | Show information for all interfaces             |
| statistics             | 802.1x statistics                               |
| <i>__readonly__</i>    | (Optional)                                      |
| TABLE_allstat          | (Optional)                                      |
| TABLE_allpaestat       | (Optional)                                      |
| <i>if_index</i>        | (Optional) Interface Index                      |
| <i>pae_type</i>        | (Optional) Show PAE Type                        |
| <i>rxstart</i>         | (Optional) Show Received EAPOL-Start            |
| <i>rxlogoff</i>        | (Optional) Show Received EAPOL-Logoff           |
| <i>rxresp</i>          | (Optional) Show Received EAP-Response           |
| <i>rxrespid</i>        | (Optional) Show Received EAP-ResponseID         |
| <i>rxinvalid</i>       | (Optional) Show Received Invalid EAPOL Frame    |
| <i>rxlenerr</i>        | (Optional) Show Received EAPOL Bad Length Frame |
| <i>rxtotal</i>         | (Optional) Show Received Total EAPOL Frame      |
| <i>txreq</i>           | (Optional) Show Transmitted EAP-Request         |
| <i>txreqid</i>         | (Optional) Show Transmitted EAP-RequestID       |
| <i>txtotal</i>         | (Optional) Show Transmitted Total EAPOL Frame   |
| <i>rxversion</i>       | (Optional) Show Received EAPOL Version          |
| <i>lastrxsourcemac</i> | (Optional) Show Last Source MAC                 |
| <i>rxreq</i>           | (Optional) Show Received EAP-Request            |
| <i>rxsuppinvalid</i>   | (Optional) Show received Invalid EAPOL Frame    |
| <i>rxsupplenerr</i>    | (Optional) Show received EAPOL Bad Length Frame |

|                      |   |
|----------------------|---|
| <i>rxsupptotal</i>   | (Optional) Show Received Total EAPOL Frame    |
| <i>txstart</i>       | (Optional) Show transmitted EAPOL-Start       |
| <i>txlogoff</i>      | (Optional) Show transmitted EAPOL-Logoff      |
| <i>txresp</i>        | (Optional) Show transmitted EAP-Response      |
| <i>txsupptotal</i>   | (Optional) Show transmitted Total EAPOL Frame |
| <i>rxsuppversion</i> | (Optional) Show Received EAPOL Version        |
| <i>lastrxsrcmac</i>  | (Optional) Show Last Source MAC received      |

**Command Mode**

- /exec

# show dot1x all summary

```
show dot1x all summary [ __readonly__ TABLE_allsummary <if_index> <pae_type> [
<port_status_no_clients> ] [ { TABLE_if_auth_clients [ <auth_mac_addr> ] [ <port_status> } ] ] ]
```

## Syntax Description

|                               |   |
|-------------------------------|---|
| dot1x                         | dot1x configuration commands                        |
| all                           | Show information for all interfaces                 |
| summary                       | 802.1x summary                                      |
| __readonly__                  | (Optional)  |
| TABLE_allsummary              | (Optional)  |
| TABLE_if_auth_clients         | (Optional)  |
| <i>if_index</i>               | (Optional) Interface Index                          |
| <i>pae_type</i>               | (Optional) Show PAE Type                            |
| <i>auth_mac_addr</i>          | (Optional) Show Authenticator MAC Address           |
| <i>port_status_no_clients</i> | (Optional) Show Port Status if there are no clients |
| <i>port_status</i>            | (Optional) Show Port Status                         |

## Command Mode

- /exec

## show dot1x interface

```
{ show dot1x interface <if> [ __readonly__ <if_index> <pae_type> [ <port_control> ] [ <host_mode> ] [
<quiet_period> ] [ <inactivity_period> ] [ <tx_period> ] [ <max_req> ] [ <reauth> ] [ <rate_limit_period> ]
[ <supp_timeout> ] [ <server_timeout> ] [ <reauth_server> ] [ <reauth_period> ] [ <reauth_max> ] [
<mac_auth_bypass> ] [ <start_period> ] [ <auth_period> ] [ <held_period> ] [ <max_start> ] ] } | { show
dot1x interface <if> details [ __readonly__ <if_index_detail> <pae_type_detail> [ <port_control_detail> ] [
<host_mode_detail> ] [ <quiet_period_detail> ] [ <inactivity_period_detail> ] [ <tx_period_detail> ] [
<max_req_detail> ] [ <reauth_detail> ] [ <rate_limit_period_detail> ] [ <supp_timeout_detail> ] [
<server_timeout_detail> ] [ <reauth_server_detail> ] [ <reauth_period_detail> ] [ <reauth_max_detail> ] [
<mac_auth_bypass_detail> ] [ <no_of_clients> ] [ <port_status_no_clients_detail> ] [ {
TABLE_if_auth_clients_detail [ <supp_mac_addr_detail> ] [ <auth_domain> ] [ <auth_sm_state> ] [
<auth_bend_sm_state> ] [ <port_status> ] [ <authentication_method> ] [ <authenticated_by> ] [
<reauth_period_client> ] [ <reauth_action> ] [ <time_to_next_reauth> ] [ <auth_vlan> ] } ] [
<start_period_detail> ] [ <auth_period_detail> ] [ <held_period_detail> ] [ <max_start_detail> ] [
<no_of_supp_clients> ] [ <auth_mac_addr_detail> ] [ <supp_sm_state> ] [ <supp_bend_sm_state> ] [
<supp_port_status> ] ] } | { show dot1x interface <if> statistics [ __readonly__ <if_index_stat> <pae_type_stat>
[ <rxstart> ] [ <rxlogoff> ] [ <rxresp> ] [ <rxrespid> ] [ <rxinvalid> ] [ <rxlenerr> ] [ <rxtotal> ] [ <txreq> ]
[ <txreqid> ] [ <txtotal> ] [ <rxversion> ] [ <lastrxsourcemac> ] [ <rxreq> ] [ <rxsuppinvalid> ] [ <rxsupplennr>
] [ <rxsupptotal> ] [ <txstart> ] [ <txlogoff> ] [ <txresp> ] [ <txsupptotal> ] [ <rxsuppversion> ] [ <lastrxsrmac>
] ] } | { show dot1x interface <if> summary [ __readonly__ <if_index_summary> <pae_type_summary> [
<port_status_no_clients_summary> ] [ { TABLE_if_auth_clients_summary [ <auth_mac_addr> ] [
<port_status_summary> ] } ] [ <supp_mac_addr> ] [ <supp_port_status_summary> ] ] }
```

### Syntax Description

| dot1x                         | dot1x configuration commands |
|-------------------------------|------------------------------|
| <i>if</i>                     |                              |
| details                       | 802.1x details               |
| statistics                    | 802.1x statistics            |
| summary                       | 802.1x summary               |
| TABLE_if_auth_clients_detail  | (Optional)                   |
| TABLE_if_auth_clients_summary | (Optional)                   |
| __readonly__                  | (Optional)                   |
| <i>if_index</i>               | (Optional) Interface Index   |
| <i>if_index_detail</i>        | (Optional) Interface Index   |
| <i>if_index_stat</i>          | (Optional) Interface Index   |
| <i>if_index_summary</i>       | (Optional) Interface Index   |
| <i>pae_type</i>               | (Optional) Show PAE Type     |
| <i>port_control</i>           | (Optional) Show Port Control |

|                                 |  |
|---------------------------------|--|
| <i>host_mode</i>                | (Optional) Show Host Mode                      |
| <i>reauth</i>                   | (Optional) Show Reauth Enabled Status          |
| <i>quiet_period</i>             | (Optional) Show Quiet Period                   |
| <i>inactivity_period</i>        | (Optional) Show Inactivity Period              |
| <i>server_timeout</i>           | (Optional) Show Server Timeout                 |
| <i>supp_timeout</i>             | (Optional) Show Supp Timeout                   |
| <i>reauth_period</i>            | (Optional) Show Reauth Period                  |
| <i>reauth_max</i>               | (Optional) Show Reauth Max                     |
| <i>max_req</i>                  | (Optional) Show Max Req                        |
| <i>tx_period</i>                | (Optional) Show Tx Period                      |
| <i>rate_limit_period</i>        | (Optional) Show Rate Limit Period              |
| <i>start_period</i>             | (Optional) Show Supplicant Start Period        |
| <i>auth_period</i>              | (Optional) Show Supplicant Auth Period         |
| <i>held_period</i>              | (Optional) Show Supplicant Held Period         |
| <i>max_start</i>                | (Optional) Show Supplicant Max Start           |
| <i>reauth_server</i>            | (Optional) Show Reauth Server Enabled Status   |
| <i>mac_auth_bypass</i>          | (Optional) Show MAC Auth Bypass Enabled Status |
| <i>pae_type_detail</i>          | (Optional) Show PAE Type                       |
| <i>port_control_detail</i>      | (Optional) Show Port Control                   |
| <i>host_mode_detail</i>         | (Optional) Show Host Mode                      |
| <i>reauth_detail</i>            | (Optional) Show Reauth Enabled Status          |
| <i>quiet_period_detail</i>      | (Optional) Show Quiet Period                   |
| <i>inactivity_period_detail</i> | (Optional) Show Inactivity Period              |
| <i>server_timeout_detail</i>    | (Optional) Show Server Timeout                 |
| <i>supp_timeout_detail</i>      | (Optional) Show Supp Timeout                   |
| <i>reauth_period_detail</i>     | (Optional) Show Reauth Period                  |
| <i>reauth_max_detail</i>        | (Optional) Show Reauth Max                     |
| <i>max_req_detail</i>           | (Optional) Show Max Req                        |
| <i>tx_period_detail</i>         | (Optional) Show Tx Period                      |

|                                      |   |
|--------------------------------------|---|
| <i>rate_limit_period_detail</i>      | (Optional) Show Rate Limit Period                   |
| <i>reauth_server_detail</i>          | (Optional) Show Reauth Server Enabled Status        |
| <i>mac_auth_bypass_detail</i>        | (Optional) Show MAC Auth Bypass Enabled Status      |
| <i>no_of_clients</i>                 | (Optional) Show Supplicant Clients                  |
| <i>port_status_no_clients_detail</i> | (Optional) Show Port Status if there are no clients |
| <i>supp_mac_addr_detail</i>          | (Optional) Show Supplicant MAC Address              |
| <i>auth_domain</i>                   | (Optional) Show Supplicant Auth Domain              |
| <i>auth_sm_state</i>                 | (Optional) Show Authenticator SM State              |
| <i>auth_bend_sm_state</i>            | (Optional) Show Authenticator Backend State         |
| <i>port_status</i>                   | (Optional) Show Port Status                         |
| <i>authentication_method</i>         | (Optional) show authentication method               |
| <i>authenticated_by</i>              | (Optional) show authenticated by                    |
| <i>reauth_period_client</i>          | (Optional) Show Reauth Period                       |
| <i>reauth_action</i>                 | (Optional) Show Reauthentication Action             |
| <i>time_to_next_reauth</i>           | (Optional) Show Time to Next Reauth                 |
| <i>auth_vlan</i>                     | (Optional) Show vlan                                |
| <i>start_period_detail</i>           | (Optional) Show Supplicant Start Period             |
| <i>auth_period_detail</i>            | (Optional) Show Supplicant Auth Period              |
| <i>held_period_detail</i>            | (Optional) Show Supplicant Held Period              |
| <i>max_start_detail</i>              | (Optional) Show Supplicant Max Start                |
| <i>no_of_supp_clients</i>            | (Optional) Show Supplicant Clients                  |
| <i>auth_mac_addr_detail</i>          | (Optional) Show Authenticator MAC Address           |
| <i>supp_sm_state</i>                 | (Optional) Show Supplicant SM State                 |
| <i>supp_bend_sm_state</i>            | (Optional) Show Supplicant Backend SM State         |
| <i>supp_port_status</i>              | (Optional) Show Supplicant Port Status              |
| <i>pae_type_stat</i>                 | (Optional) Show PAE Type                            |
| <i>rxstart</i>                       | (Optional) Show Received EAPOL-Start                |
| <i>rxlogoff</i>                      | (Optional) Show Received EAPOL-Logoff               |
| <i>rxresp</i>                        | (Optional) Show Received EAP-Response               |

|                                       |   |
|---------------------------------------|---|
| <i>rxrespid</i>                       | (Optional) Show Received EAP-ResponseID             |
| <i>rxinvalid</i>                      | (Optional) Show Received Invalid EAPOL Frame        |
| <i>rxlenerr</i>                       | (Optional) Show Received EAPOL Bad Length Frame     |
| <i>rxtotal</i>                        | (Optional) Show Received Total EAPOL Frame          |
| <i>txreq</i>                          | (Optional) Show Transmitted EAP-Request             |
| <i>txreqid</i>                        | (Optional) Show Transmitted EAP-RequestID           |
| <i>txtotal</i>                        | (Optional) Show Transmitted Total EAPOL Frame       |
| <i>rxversion</i>                      | (Optional) Show Received EAPOL Version              |
| <i>lastrxsourcemac</i>                | (Optional) Show Last Source MAC                     |
| <i>rxreq</i>                          | (Optional) Show Received EAP-Request                |
| <i>rxsuppinvalid</i>                  | (Optional) Show received Invalid EAPOL Frame        |
| <i>rxsupplenerr</i>                   | (Optional) Show received EAPOL Bad Length Frame     |
| <i>rxsupptotal</i>                    | (Optional) Show Received Total EAPOL Frame          |
| <i>txstart</i>                        | (Optional) Show transmitted EAPOL-Start             |
| <i>txlogoff</i>                       | (Optional) Show transmitted EAPOL-Logoff            |
| <i>txresp</i>                         | (Optional) Show transmitted EAP-Response            |
| <i>txsupptotal</i>                    | (Optional) Show transmitted Total EAPOL Frame       |
| <i>rxsuppversion</i>                  | (Optional) Show Received EAPOL Version              |
| <i>lastrxsrmac</i>                    | (Optional) Show Last Souuce MAC received            |
| <i>pae_type_summary</i>               | (Optional) Show PAE Type                            |
| <i>port_status_no_clients_summary</i> | (Optional) Show Port Status if there are no clients |
| <i>port_status_summary</i>            | (Optional) Show Port Status                         |
| <i>supp_port_status_summary</i>       | (Optional) Show Port Status                         |
| <i>supp_mac_addr</i>                  | (Optional) Show Supplicant Client MAC Address       |
| <i>auth_mac_addr</i>                  | (Optional) Show Auth Client MAC Address             |

**Command Mode**

- /exec

## show dot1x interface client statistics

```
show dot1x interface <if> client statistics [ __readonly__ <if_index_stat> <pae_type_stat> [ {
TABLE_mac_address [ <macaddr> ] [ <rxstart> ] [ <rxlogoff> ] [ <rxresp> ] [ <rxrespid> ] [ <rxinvalid> ] [
<rxlenerr> ] [ <rxtotal> ] [ <txreq> ] [ <txreqid> ] [ <txtotal> ] [ <rxversion> ] [ <lastrxsourcema
c> ] } ] [
<spurious_rxstart> ] [ <spurious_rxlogoff> ] [ <spurious_rxresp> ] [ <spurious_rxrespid> ] [
<spurious_rxinvalid> ] [ <spurious_rxlenerr> ] [ <spurious_rxtotal> ] [ <spurious_txreq> ] [ <spurious_txreqid>
] [ <spurious_txtotal> ] [ <spurious_rxversion> ] [ <spurious_lastrxsourcema
c> ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| dot1x                   | dot1x configuration commands                          |
| <i>if</i>               |   |
| client                  | 802.1x client   |
| statistics              | 802.1x statistics                                     |
| <i>__readonly__</i>     | (Optional)  |
| TABLE_mac_address       | (Optional)  |
| <i>if_index_stat</i>    | (Optional) Interface Index                            |
| <i>pae_type_stat</i>    | (Optional) Show PAE Type                              |
| <i>macaddr</i>          | (Optional) mac-address of the client                  |
| <i>rxstart</i>          | (Optional) Show Received EAPOL-Start                  |
| <i>rxlogoff</i>         | (Optional) Show Received EAPOL-Logoff                 |
| <i>rxresp</i>           | (Optional) Show Received EAP-Response                 |
| <i>rxrespid</i>         | (Optional) Show Received EAP-ResponseID               |
| <i>rxinvalid</i>        | (Optional) Show Received Invalid EAPOL Frame          |
| <i>rxlenerr</i>         | (Optional) Show Received EAPOL Bad Length Frame       |
| <i>rxtotal</i>          | (Optional) Show Received Total EAPOL Frame            |
| <i>txreq</i>            | (Optional) Show Transmitted EAP-Request               |
| <i>txreqid</i>          | (Optional) Show Transmitted EAP-RequestID             |
| <i>txtotal</i>          | (Optional) Show Transmitted Total EAPOL Frame         |
| <i>rxversion</i>        | (Optional) Show Received EAPOL Version                |
| <i>lastrxsourcema c</i> | (Optional) Show Last Source MAC                       |
| <i>spurious_rxstart</i> | (Optional) Show Received EAPOL-Start of spurious macs |



|                                 |  |
|---------------------------------|--|
| <i>spurious_rxlogoff</i>        | (Optional) Show Received EAPOL-Logoff of spurious macs           |
| <i>spurious_rxresp</i>          | (Optional) Show Received EAP-Response of spurious macs           |
| <i>spurious_rxrespid</i>        | (Optional) Show Received EAP-ResponseID of spurious macs         |
| <i>spurious_rxinvalid</i>       | (Optional) Show Received Invalid EAPOL Frame of spurious macs    |
| <i>spurious_rxlennerr</i>       | (Optional) Show Received EAPOL Bad Length Frame of spurious macs |
| <i>spurious_rxtotal</i>         | (Optional) Show Received Total EAPOL Frame of spurious macs      |
| <i>spurious_txreq</i>           | (Optional) Show Transmitted EAP-Request of spurious macs         |
| <i>spurious_txreqid</i>         | (Optional) Show Transmitted EAP-RequestID of spurious macs       |
| <i>spurious_txtotal</i>         | (Optional) Show Transmitted Total EAPOL Frame of spurious macs   |
| <i>spurious_rxversion</i>       | (Optional) Show Received EAPOL Version of spurious macs          |
| <i>spurious_lastrxsourcemac</i> | (Optional) Show Last Source MAC of spurious macs                 |

**Command Mode**

- /exec

## show dot1x interface client statistics address

```
show dot1x interface <if> client statistics address <mac-address> [ __readonly__ <if_index_stat>
<pae_type_stat> [ <rxstart> ] [ <rxlogoff> ] [ <rxresp> ] [ <rxrespid> ] [ <rxinvalid> ] [ <rxlenerr> ] [ <rxtotal>
] [ <txreq> ] [ <txreqid> ] [ <txtotal> ] [ <rxversion> ] [ <lastrxsourcemac> ] ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| dot1x                  | dot1x configuration commands                    |
| <i>if</i>              |   |
| client                 | 802.1x client                                   |
| statistics             | 802.1x statistics                               |
| address                | 802.1x client address                           |
| <i>mac-address</i>     | mac address EE:EE:EE:EE:EE:EE                   |
| <i>__readonly__</i>    | (Optional)                                      |
| <i>if_index_stat</i>   | (Optional) Interface Index                      |
| <i>pae_type_stat</i>   | (Optional) Show PAE Type                        |
| <i>rxstart</i>         | (Optional) Show Received EAPOL-Start            |
| <i>rxlogoff</i>        | (Optional) Show Received EAPOL-Logoff           |
| <i>rxresp</i>          | (Optional) Show Received EAP-Response           |
| <i>rxrespid</i>        | (Optional) Show Received EAP-ResponseID         |
| <i>rxinvalid</i>       | (Optional) Show Received Invalid EAPOL Frame    |
| <i>rxlenerr</i>        | (Optional) Show Received EAPOL Bad Length Frame |
| <i>rxtotal</i>         | (Optional) Show Received Total EAPOL Frame      |
| <i>txreq</i>           | (Optional) Show Transmitted EAP-Request         |
| <i>txreqid</i>         | (Optional) Show Transmitted EAP-RequestID       |
| <i>txtotal</i>         | (Optional) Show Transmitted Total EAPOL Frame   |
| <i>rxversion</i>       | (Optional) Show Received EAPOL Version          |
| <i>lastrxsourcemac</i> | (Optional) Show Last Source MAC                 |

### Command Mode

- /exec



## E Show Commands

---

- [show ecp, on page 308](#)
- [show elam report, on page 310](#)
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- [show encryption service stat, on page 312](#)
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- [show event manager policy-state, on page 330](#)
- [show event manager script system, on page 331](#)
- [show event manager system-policy, on page 332](#)

# show ecp

```
show ecp [ detail ] [ __readonly__ <ecp_rte> <ecp_retries> [ <ecp_mode> ] <ecp_cnt_rx_pkt>
<ecp_cnt_tx_pkt> [ { TABLE_ecp_plugin <plugin_id> <plugin_desc> <plugin_status> } ] [ {
TABLE_ecp_session <session_id> <session_interface> <session_svlan> [ <session_peer_mac> ]
<session_rx_seq> <session_tx_seq> [ <session_cnt_rx_pkt> ] [ <session_cnt_rx_dup> ] [
<session_cnt_rx_drop> ] [ <session_cnt_tx_pkt> ] [ <session_cnt_tx_retry> ] [ <session_cnt_tx_err> ] } ] ]
```

## Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information               |
| ecp                        | ECP (Edge Control Protocol)                   |
| detail                     | (Optional) Detailed information               |
| __readonly__               | (Optional)                                    |
| <i>ecp_rte</i>             | (Optional) Retransmission timer init exponent |
| <i>ecp_retries</i>         | (Optional) Maximal number of retransmissions  |
| <i>ecp_mode</i>            | (Optional) ECP mode                           |
| <i>ecp_cnt_rx_pkt</i>      | (Optional) No. received packet                |
| <i>ecp_cnt_tx_pkt</i>      | (Optional) No. transmitted packet             |
| TABLE_ecp_plugin           | (Optional) ECP plugin table                   |
| <i>plugin_id</i>           | (Optional) Plugin id                          |
| <i>plugin_desc</i>         | (Optional) Plugin description                 |
| <i>plugin_status</i>       | (Optional) Plugin status                      |
| TABLE_ecp_session          | (Optional) ECP session table                  |
| <i>session_id</i>          | (Optional) Session id                         |
| <i>session_svlan</i>       | (Optional) S-Vlan                             |
| <i>session_peer_mac</i>    | (Optional) Peer mac                           |
| <i>session_interface</i>   | (Optional) Interface                          |
| <i>session_rx_seq</i>      | (Optional) Receive sequence                   |
| <i>session_tx_seq</i>      | (Optional) Transmit sequence                  |
| <i>session_cnt_rx_pkt</i>  | (Optional) No. receive packet                 |
| <i>session_cnt_rx_dup</i>  | (Optional) No. receive duplicate              |
| <i>session_cnt_rx_drop</i> | (Optional) No. receive drop                   |

|                             |                                |
|-----------------------------|--------------------------------|
| <i>session_cnt_tx_pkt</i>   | (Optional) No. transmit packet |
| <i>session_cnt_tx_retry</i> | (Optional) No. transmit retry  |
| <i>session_cnt_tx_err</i>   | (Optional) No. transmit error  |

**Command Mode**

- /exec

# show elam report

show elam report [ l2 | l3 | l4 | aclqos | mcast | mpls ]

## Syntax Description

|        |                                  |
|--------|----------------------------------|
| show   | Show running system information  |
| elam   | elam                             |
| report | Show ELAM report                 |
| l2     | (Optional) Layer 2 header report |
| l3     | (Optional) Layer 3 header report |
| l4     | (Optional) Layer 4 header report |
| aclqos | (Optional) Aclqos report         |
| mcast  | (Optional) Multicast report      |
| mpls   | (Optional) MPLS report           |

## Command Mode

- /exec/elamtah/outsel2

# show email

```
show email [ __readonly__ [ <ipv4> ] [ <ipv6> ] [ <host> ] [ <port> ] [ <reply> ] [ <from> ] [ <vrfname> ] ]
```

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| email               | Pipe email configuration        |
| <i>__readonly__</i> | (Optional)                      |
| <i>ipv4</i>         | (Optional)                      |
| <i>host</i>         | (Optional)                      |
| <i>port</i>         | (Optional)                      |
| <i>reply</i>        | (Optional)                      |
| <i>from</i>         | (Optional)                      |
| <i>vrfname</i>      | (Optional)                      |

## Command Mode

- /exec

# show encryption service stat

```
show encryption service stat [ __readonly__ [ <encryptionService> <MasterKeyEncryption>
<Type6Encryption> ] ]
```

## Syntax Description

|                            |                                       |
|----------------------------|---------------------------------------|
| show                       | Show running system information       |
| encryption                 | Encryption service                    |
| service                    | Encryption service                    |
| stat                       | Encryptpin service status             |
| <i>__readonly__</i>        | (Optional)                            |
| <i>encryptionService</i>   | (Optional) Encryption service status  |
| <i>MasterKeyEncryption</i> | (Optional) Master key status          |
| <i>Type6Encryption</i>     | (Optional) Is type 6 encryption used? |

## Command Mode

- /exec



## show environment

```
show environment [ fan [ detail1 ] | power [ detail ] [ ampere ] [ input ] | temperature [ module <module> |
<s0> <santa-cruz-range> | psu ] [ __readonly__ [ { TABLE_clockinfo <clockname> <clkmodel> <clkhwver>
<clkstatus> <act_standby> } ] [ { fandetails [ { TABLE_faninfo <fanname> <fanmodel> <fanhwver> <fandir>
<fanstatus> } ] [ { TABLE_fan_zone_speed <zone> <zonespeed> } <fan_filter_status> [ { TABLE_fantray
<fanname> <trayfannum> <fandir> <fanperc> <fanrpm> } ] [ { TABLE_psufan <fanname> <fan1rpm>
<fan2rpm> } ] ] [ { powersup [ <voltage_level> ] [ { TABLE_psinfo <psnum> <psmodel> [ <actual_out>
] [ <actual_input> ] [ <tot_capa> ] [ <input_type> ] [ <watts> ] [ <amps> ] [ <ps_status> ] [ <ps_status_3k>
] ] ] [ { TABLE_mod_pow_info <modnum> <mod_model> [ <actual_draw> ] [ <allocated> ] [
<watts_requested> ] [ <amps_requested> ] [ <watts_allocated> ] [ <amps_allocated> ] [ <modstatus> ] [
<modstatus_3k> ] ] ] [ { power_summary [ <ps_redun_mode> ] [ <ps_redun_mode_3k> ] [ <ps_oper_mode>
] [ <ps_redun_op_mode> ] <tot_pow_capacity> [ <tot_gridA_capacity> ] [ <tot_gridB_capacity> ] [
<cumulative_power> ] [ <tot_pow_out_actual_draw> ] [ <tot_pow_input_actual_draw> ] [
<tot_pow_alloc_budgeted> ] [ <reserve_sup> ] [ <pow_used_by_mods> ] <available_pow> } ] [ {
powersup_detail <reserve_sup> <reserve_xbar> <reserve_fan> <reserve_supxbarfan> <pow_used_by_mods>
} ] [ <all_inlets_connected> ] [ { TABLE_ps_detail_info <det_name> <det_total_cap> <det_volt> <det_pintot>
[ <det_pina> ] <det_vin> <det_iin> <det_pout> <det_vout> <det_iout> [ <det_pinb> ] [ <det_iinb> ] [
<det_vinb> ] [ <det_cord> ] <det_sw_alarm> [ { TABLE_det_hw_alarm_regval <regnum> <regval> } ] [ {
TABLE_det_hw_alarm_str <regnumstr> <bitnumstr> <alarm_str> } ] ] [ { TABLE_psininputinfo_n3k
<ps_slot> <ps_input_voltage> <ps_input_current> <ps_in_power> [ <ps_output_voltage> ] [
<ps_output_current> ] <ps_state> } ] ] [ { fandetails_3k [ { TABLE_faninfo <fanname> <fanmodel>
<fanhwver> <fandir> <fanstatus> } ] [ { TABLE_fan_zone_speed <zone> <speed> } <fan_filter_status> [ {
TABLE_fantray <fanname> <fannum> <fandir> <fanperc> <fanrpm> } ] [ { TABLE_psufan <fanname>
<fan1rpm> <fan2rpm> } ] ] [ { TABLE_tempinfo <tempmod> <sensor> <majthres> <minthres> <curtemp>
<alarmstatus> [ <temptype> } ] ] [ { TABLE_psutempinfo <psumod> <inlet_temp> <outlet_temp>
<heatsink_temp> } ] ] ]
```

### Syntax Description

|               |  |
|---------------|--|
| show          | Show running system information                              |
| environment   | system environment information                               |
| fan           | (Optional) Fan information                                   |
| power         | (Optional) Power capacity and power distribution information |
| detail        | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                    |
| detail1       | (Optional) Detail Fan-tray information when used with Fan    |
| ampere        | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                    |
| input         | (Optional) Power supply power input                          |
| temperature   | (Optional) temperature sensor information                    |
| module        | (Optional) enter a module number                             |
| <i>module</i> | (Optional) please enter the module number                    |
| <i>s0</i>     | (Optional) xbar  |

|                          |  |
|--------------------------|--|
| <i>santa-cruz-range</i>  | (Optional) please enter the xbar number        |
| psu                      | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED      |
| __readonly__             | (Optional)                                     |
| TABLE_clockinfo          | (Optional) Environment Clock                   |
| <i>clockname</i>         | (Optional) Clock Instance (A or B)             |
| <i>clkmodel</i>          | (Optional) Model number of clock               |
| <i>clkhwver</i>          | (Optional) Hardware version of the clock       |
| <i>clkstatus</i>         | (Optional) Present/Absent Status of the clock  |
| <i>act_standby</i>       | (Optional) Active/Standby Status of clock      |
| fanetails                | (Optional) Environment Fan                     |
| TABLE_faninfo            | (Optional) Fan Info                            |
| <i>fanname</i>           | (Optional) Fan Instance                        |
| <i>fanmodel</i>          | (Optional) Model number of fan                 |
| <i>fanhwver</i>          | (Optional) Hardware version of the fan         |
| <i>fandir</i>            | (Optional) Air-flow direction of the fan-tray  |
| <i>fanstatus</i>         | (Optional) Present/Absent Status of the fan    |
| TABLE_fan_zone_speed     | (Optional) Fan Zone Speeds                     |
| <i>zone</i>              | (Optional) Zone Number                         |
| <i>zonespeed</i>         | (Optional) Zone Speed                          |
| <i>fan_filter_status</i> | (Optional) Present/Absent Status of fan filter |
| TABLE_fantray            | (Optional) Fan Tray Details table              |
| <i>fanname</i>           | (Optional) Fan Tray Instance                   |
| <i>trayfannum</i>        | (Optional) Fan number in the tray              |
| <i>fandir</i>            | (Optional) Air-flow direction of the fan-tray  |
| <i>fanperc</i>           | (Optional) FAN Speed percentage                |
| <i>fanrpm</i>            | (Optional) FAN Speed RPM                       |
| TABLE_psufan             | (Optional) PSU Fan Details table               |
| <i>fanname</i>           | (Optional) PSU Fan Instance                    |
| <i>fan1rpm</i>           | (Optional) FAN1 Speed RPM                      |

|                          |  |
|--------------------------|--|
| <i>fan2rpm</i>           | (Optional) FAN2 Speed RPM                      |
| <i>fanetails_3k</i>      | (Optional) Environment Fan                     |
| TABLE_faninfo            | (Optional) Fan Info                            |
| <i>fanname</i>           | (Optional) Fan Instance                        |
| <i>fanmodel</i>          | (Optional) Model number of fan                 |
| <i>fanhwver</i>          | (Optional) Hardware version of the fan         |
| <i>fandir</i>            | (Optional) Air-flow direction of the fan-tray  |
| <i>fanstatus</i>         | (Optional) Present/Absent Status of the fan    |
| TABLE_fan_zone_speed     | (Optional) Fan Zone Speeds                     |
| <i>zone</i>              | (Optional) Zone Number                         |
| <i>speed</i>             | (Optional) Zone Speed                          |
| <i>fan_filter_status</i> | (Optional) Present/Absent Status of fan filter |
| TABLE_fantray            | (Optional) Fan Tray Details table              |
| <i>fanname</i>           | (Optional) Fan Tray Instance                   |
| <i>fannum</i>            | (Optional) Fan number in the tray              |
| <i>fandir</i>            | (Optional) Air-flow direction of the fan-tray  |
| <i>fanperc</i>           | (Optional) FAN Speed percentage                |
| <i>fanrpm</i>            | (Optional) FAN Speed RPM                       |
| TABLE_psufan             | (Optional) PSU Fan Details table               |
| <i>fanname</i>           | (Optional) PSU Fan Instance                    |
| <i>fan1rpm</i>           | (Optional) FAN1 Speed RPM                      |
| <i>fan2rpm</i>           | (Optional) FAN2 Speed RPM                      |
| <i>powersup</i>          | (Optional) Environment Power                   |
| <i>voltage_level</i>     | (Optional) Voltage Level                       |
| TABLE_psinfo             | (Optional) Power Supply Info                   |
| <i>psnum</i>             | (Optional) Power Supply Number                 |
| <i>psmodel</i>           | (Optional) Power Supply Model                  |
| <i>actual_out</i>        | (Optional) Actual Output                       |
| <i>actual_input</i>      | (Optional) Actual Input                        |

|                                  |   |
|----------------------------------|---|
| <i>tot_capa</i>                  | (Optional) Total Capacity                               |
| <i>input_type</i>                | (Optional) Power Supply Input Type                      |
| <i>watts</i>                     | (Optional) Power in Watts                               |
| <i>amps</i>                      | (Optional) Power in Amps                                |
| <i>ps_status</i>                 | (Optional) Power Supply Status                          |
| <i>ps_status_3k</i>              | (Optional) Power Supply Status                          |
| TABLE_mod_pow_info               | (Optional) Module Power Info                            |
| <i>modnum</i>                    | (Optional) Module number                                |
| <i>mod_model</i>                 | (Optional) Model ProductID number                       |
| <i>actual_draw</i>               | (Optional) Actual Draw                                  |
| <i>allocated</i>                 | (Optional) Power allocated                              |
| <i>watts_requested</i>           | (Optional) Power requested in Watts                     |
| <i>amps_requested</i>            | (Optional) Power requested in Amps                      |
| <i>watts_alloced</i>             | (Optional) Power allocated in Watts                     |
| <i>amps_alloced</i>              | (Optional) Power allocated in Amps                      |
| <i>modstatus</i>                 | (Optional) Module Status                                |
| <i>modstatus_3k</i>              | (Optional) Module status                                |
| power_summary                    | (Optional) Power Usage Summary                          |
| <i>ps_redun_mode</i>             | (Optional) Mode: Redundant or Non-redundant             |
| <i>ps_redun_mode_3k</i>          | (Optional) Mode: Redundant or Non-redundant             |
| <i>ps_redun_op_mode</i>          | (Optional) Operational mode: Redundant or Non-redundant |
| <i>ps_oper_mode</i>              | (Optional) Operational Mode                             |
| <i>tot_pow_capacity</i>          | (Optional) Total Power Capacity                         |
| <i>tot_gridA_capacity</i>        | (Optional) Total Grid-A Capacity                        |
| <i>tot_gridB_capacity</i>        | (Optional) Total Grid-B Capacity                        |
| <i>cumulative_power</i>          | (Optional) Total Power of all Inputs                    |
| <i>tot_pow_out_actual_draw</i>   | (Optional) Total Power Output, Actuals                  |
| <i>tot_pow_input_actual_draw</i> | (Optional) Total Power Input, Actuals                   |
| <i>tot_pow_alloc_budgeted</i>    | (Optional) Total Power Allocated/budgeted               |

|                             |   |
|-----------------------------|---|
| <i>reserve_sup</i>          | (Optional) Power reserved for Supervisors           |
| <i>pow_used_by_mods</i>     | (Optional) Power currently used by Modules          |
| <i>available_pow</i>        | (Optional) Remaining Power Available                |
| <i>powersup_detail</i>      | (Optional) PowerSupply Details                      |
| <i>reserve_sup</i>          | (Optional) Power reserved for Supervisors           |
| <i>reserve_xbar</i>         | (Optional) Power reserved for Xbars                 |
| <i>reserve_fan</i>          | (Optional) Power reserved for Fans                  |
| <i>reserve_supxbarfan</i>   | (Optional) Total Power reserved for Sups,Xbars,Fans |
| <i>pow_used_by_mods</i>     | (Optional) Power currently used by Modules          |
| <i>all_inlets_connected</i> | (Optional) Are all inlet cords connected            |
| TABLE_ps_detail_info        | (Optional) Power supply detail information          |
| <i>det_name</i>             | (Optional) Power supply name                        |
| <i>det_total_cap</i>        | (Optional) Power supply total capacity              |
| <i>det_volt</i>             | (Optional) Power supply voltage                     |
| <i>det_pintot</i>           | (Optional) Power supply pin A total power           |
| <i>det_pina</i>             | (Optional) PS pin A                                 |
| <i>det_vin</i>              | (Optional) PS Vin                                   |
| <i>det_iin</i>              | (Optional) PS Iin                                   |
| <i>det_pout</i>             | (Optional) PS Power out                             |
| <i>det_vout</i>             | (Optional) PS voltaget out                          |
| <i>det_iout</i>             | (Optional) PS current in                            |
| <i>det_pinb</i>             | (Optional) PS pin B                                 |
| <i>det_iinb</i>             | (Optional) PS Iin B                                 |
| <i>det_vinb</i>             | (Optional) PS Vin B                                 |
| <i>det_cord</i>             | (Optional) PS cord                                  |
| <i>det_sw_alarm</i>         | (Optional) PS software alarm                        |
| TABLE_det_hw_alarm_regval   | (Optional) PS hardware alarm                        |
| <i>regnum</i>               | (Optional) HW alarm register                        |
| <i>regval</i>               | (Optional) Alarm reg value                          |

|                          |   |
|--------------------------|---|
| TABLE_det_hw_alarm_str   | (Optional) PS Hardware alarm string       |
| <i>regnumstr</i>         | (Optional) Alarm reg number               |
| <i>bitnumstr</i>         | (Optional) Alarm register bit             |
| <i>alarm_str</i>         | (Optional) Alarm cause                    |
| TABLE_psinputinfo_n3k    | (Optional) Power Supply power input       |
| <i>ps_slot</i>           | (Optional) Power Supply Number            |
| <i>ps_input_voltage</i>  | (Optional) Power Supply input volatage    |
| <i>ps_input_current</i>  | (Optional) Power Supply input current     |
| <i>ps_in_power</i>       | (Optional) Power Supply input power       |
| <i>ps_output_voltage</i> | (Optional) Power Supply output volatage   |
| <i>ps_output_current</i> | (Optional) Power Supply output current    |
| <i>ps_state</i>          | (Optional) Power Supply status            |
| TABLE_tempinfo           | (Optional) Environment Temperature        |
| <i>tempmod</i>           | (Optional) Module                         |
| <i>sensor</i>            | (Optional) Sensor name                    |
| <i>majthres</i>          | (Optional) Major Threshold                |
| <i>minthres</i>          | (Optional) Minor Threshold                |
| <i>curtemp</i>           | (Optional) Current temperature            |
| <i>alarmstatus</i>       | (Optional) Alarm Status                   |
| <i>temptype</i>          | (Optional) Control or Monitor temperature |
| TABLE_psutempinfo        | (Optional) PSU temperature info table     |
| <i>psumod</i>            | (Optional) PSU Module                     |
| <i>inlet_temp</i>        | (Optional) Inlet Temperature              |
| <i>outlet_temp</i>       | (Optional) Outlet Temperature             |
| <i>heatsink_temp</i>     | (Optional) Heatsink Temperature           |

**Command Mode**

- /exec

# show errdisable detect

```
show errdisable { detect | recovery } [ __readonly__ TABLE_errdisable <cause> <state> [ <time_interval> ] ]
```

## Syntax Description

|                      |                                       |
|----------------------|---------------------------------------|
| show                 | Show running system information       |
| errdisable           | Error disable                         |
| detect               | Show errdisable detect                |
| recovery             | Show errdisable recovery              |
| __readonly__         | (Optional) Read Only                  |
| TABLE_errdisable     | (Optional) show errdisable            |
| <i>cause</i>         | (Optional) errdisable cause           |
| <i>state</i>         | (Optional) Interface state            |
| <i>time_interval</i> | (Optional) err recovery time interval |

## Command Mode

- /exec

# show errdisable flap

show errdisable flap

## Syntax Description

|            |                                 |
|------------|---------------------------------|
| show       | Show running system information |
| errdisable | Error disable                   |
| flap       | linkstate flapping              |

## Command Mode

- /exec



# show evb

```
show evb [ __readonly__ <evb_role> <evb_vdp_mac> [ <evb_cisco_mac> ] [ <evb_user_mac> ] <evb_rwd>
<evb_rka> <evb_cnt_recv_vdpdu> <evb_cnt_drop_vdpdu> <evb_cnt_recv_tlv> <evb_cnt_recv_mgr_tlv>
<evb_cnt_recv_assoc_tlv> <evb_cnt_recv_cmd> ]
```

## Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information        |
| evb                           | EVB (Edge Virtual Bridge)              |
| __readonly__                  | (Optional)                             |
| <i>evb_role</i>               | (Optional) EVB role                    |
| <i>evb_vdp_mac</i>            | (Optional) VDP Mac address             |
| <i>evb_cisco_mac</i>          | (Optional) Cisco Mac address           |
| <i>evb_user_mac</i>           | (Optional) User mac address            |
| <i>evb_rwd</i>                | (Optional) Resource wait init exponent |
| <i>evb_rka</i>                | (Optional) Keep-alive init exponent    |
| <i>evb_cnt_recv_vdpdu</i>     | (Optional) No. received vdpdu          |
| <i>evb_cnt_drop_vdpdu</i>     | (Optional) No. dropped vdpdu           |
| <i>evb_cnt_recv_tlv</i>       | (Optional) No. received tlv            |
| <i>evb_cnt_recv_mgr_tlv</i>   | (Optional) No. received mgr tlv        |
| <i>evb_cnt_recv_assoc_tlv</i> | (Optional) No. received assoc tlv      |
| <i>evb_cnt_recv_cmd</i>       | (Optional) No. received commands       |

## Command Mode

- /exec



|                      |                                |
|----------------------|--------------------------------|
| TABLE_evb_host       | (Optional) EVB host table      |
| <i>host_row_id</i>   | (Optional) Host row id         |
| <i>host_name</i>     | (Optional) Host name           |
| <i>host_uuid</i>     | (Optional) Host uuid           |
| TABLE_evb_vsi        | (Optional) EVB vsi table       |
| <i>vsi_row_id</i>    | (Optional) VSI row id          |
| <i>mgr_id</i>        | (Optional) Manager id          |
| <i>vsi_id</i>        | (Optional) VSI id              |
| <i>vsi_host_name</i> | (Optional) Host name           |
| <i>interface</i>     | (Optional) Interface           |
| <i>vpc</i>           | (Optional) VPC                 |
| <i>s_channel</i>     | (Optional) S-Channel           |
| <i>station_mac</i>   | (Optional) Station mac address |
| <i>profile_id</i>    | (Optional) Profile id          |
| <i>m_state</i>       | (Optional) Machine state       |
| <i>e_state</i>       | (Optional) Entry state         |
| <i>reason</i>        | (Optional) State reason        |
| <i>timer</i>         | (Optional) Countdown timer     |
| TABLE_evb_vsi_filter | (Optional) EVB filter table    |
| <i>filter_row_id</i> | (Optional) Filter row id       |
| <i>filter_group</i>  | (Optional) Group id            |
| <i>filter_vid</i>    | (Optional) Vlan id             |
| <i>filter_bd</i>     | (Optional) Bridge-domain id    |
| <i>filter_mac</i>    | (Optional) Mac address         |
| <i>filter_ip</i>     | (Optional) IP address          |

### Command Mode

- /exec

## show evb vsi

```
show evb vsi [ { summary | detail | internal-info } ] [ [ { mac <mac-addr> | interface <intf-name> | vlan
<vlan-id> | vni <vni-id> | ip <ip-addr> | ipv6 <ipv6-addr> } + } ] [ __readonly__ <evb_cnt_vsi>
<evb_cnt_assoc_vsi> [ { TABLE_evb_vsi <vsi_row_id> <mgr_id> <vsi_id> [ <vsi_host_name> ] <interface>
[ <vpc> ] [ <s_channel> ] [ <station_mac> ] [ <m_state> ] [ <e_state> ] [ <reason> ] [ <timer> ] [ <profile_id>
] [ { TABLE_evb_vsi_filter <filter_row_id> [ <filter_group> ] [ <filter_vid> ] [ <filter_bd> ] [ <filter_mac>
] [ <filter_ip> ] } } ] ] ]
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information                      |
| evb                      | EVB (Edge Virtual Bridge)                            |
| vsi                      | Virtual Station Interface (VSI) information          |
| summary                  | (Optional) Display summary information               |
| detail                   | (Optional) Display detailed information              |
| internal-info            | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED            |
| mac                      | (Optional) Display VSI by MAC address                |
| <i>mac-addr</i>          | (Optional) MAC Address                               |
| interface                | (Optional) Display VSI by interface                  |
| <i>intf-name</i>         | (Optional) Interface name                            |
| vlan                     | (Optional) Display VSI by VLAN                       |
| <i>vlan-id</i>           | (Optional) VLAN ID                                   |
| vni                      | (Optional) Display VSI by Virtual Network Identifier |
| <i>vni-id</i>            | (Optional) VNI                                       |
| ip                       | (Optional) Display VSI by IP address                 |
| ipv6                     | (Optional) Display VSI by IPv6 address               |
| <i>ip-addr</i>           | (Optional) IP address                                |
| <i>__readonly__</i>      | (Optional)   |
| <i>evb_cnt_vsi</i>       | (Optional) No. VSI entries                           |
| <i>evb_cnt_assoc_vsi</i> | (Optional) No. associated VSI entries                |
| TABLE_evb_vsi            | (Optional) EVB vsi table                             |
| <i>vsi_row_id</i>        | (Optional) VSI row id                                |

|                      |                                |
|----------------------|--------------------------------|
| <i>mgr_id</i>        | (Optional) Manager id          |
| <i>vsi_id</i>        | (Optional) VSI id              |
| <i>vsi_host_name</i> | (Optional) Host name           |
| <i>interface</i>     | (Optional) Interface           |
| <i>vpc</i>           | (Optional) VPC                 |
| <i>s_channel</i>     | (Optional) S-Channel           |
| <i>station_mac</i>   | (Optional) Station mac address |
| <i>profile_id</i>    | (Optional) Profile id          |
| <i>m_state</i>       | (Optional) Machine state       |
| <i>e_state</i>       | (Optional) Entry state         |
| <i>reason</i>        | (Optional) State reason        |
| <i>timer</i>         | (Optional) Countdown timer     |
| TABLE_evb_vsi_filter | (Optional) EVB filter table    |
| <i>filter_row_id</i> | (Optional) Filter row id       |
| <i>filter_group</i>  | (Optional) Group id            |
| <i>filter_vid</i>    | (Optional) Vlan id             |
| <i>filter_bd</i>     | (Optional) Bridge-domain id    |
| <i>filter_mac</i>    | (Optional) Mac address         |
| <i>filter_ip</i>     | (Optional) IP address          |

**Command Mode**

- /exec

# show event manager environment

show event manager environment { all | <varname> } [ \_\_readonly\_\_ <environment-details> ]

## Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information                                 |
| event                      | Event Manager commands  |
| manager                    | Event Manager commands  |
| environment                | Show information about environment variables                    |
| all                        | Show information about all the configured environment variables |
| <i>varname</i>             | The environment variable name on which information is required  |
| __readonly__               | (Optional)  |
| <i>environment-details</i> | (Optional) Show information about environment variables         |

## Command Mode

- /exec

## show event manager event-types

```
show event manager event-types [ all | <event-type-name> ] [ module <module-id> ] [ __readonly__ {
<event-types> } ]
```

### Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information                                |
| event                  | Event Manager commands   |
| manager                | Event Manager commands   |
| event-types            | Show information about registered event types                  |
| all                    | (Optional) Show information about advanced event types as well |
| <i>event-type-name</i> | (Optional) Show information about the specified event type     |
| module                 | (Optional) Show information about event types on other modules |
| <i>module-id</i>       | (Optional) Module Id   |
| __readonly__           | (Optional)   |
| <i>event-types</i>     | (Optional) Show information about registered event types       |

### Command Mode

- /exec

# show event manager events action-log

```
show event manager events action-log [ policy <policy-name> | event-type <event-type-name> ] [ __readonly__
{ <action-log-data> } ]
```

## Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information                          |
| event                  | Event Manager commands                                   |
| manager                | Event Manager commands                                   |
| events                 | Show information about the history of past events        |
| action-log             | Show policy action logs                                  |
| policy                 | (Optional) Name of policy                                |
| <i>policy-name</i>     | (Optional) Enter policy name                             |
| event-type             | (Optional) Name of event                                 |
| <i>event-type-name</i> | (Optional) Enter event type                              |
| __readonly__           | (Optional)   |
| <i>action-log-data</i> | (Optional) Show information about the policy action logs |

## Command Mode

- /exec



## show event manager history events

```
show event manager history events [ detail ] [ maximum <n-events> ] [ severity <sev> ] [ __readonly__ {
<history-events> } ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information   |
| event                 | Event Manager commands  |
| manager               | Event Manager commands  |
| history               | Show information about the history of past activity                       |
| events                | Show information about the history of past events                         |
| detail                | (Optional) Show information about the event parameters as well            |
| maximum               | (Optional) Specify an upper limit on the number of events to be shown     |
| <i>n-events</i>       | (Optional) Specify the maximum number of events to be shown               |
| severity              | (Optional) Show only those events whose severity is >= specified severity |
| <i>sev</i>            | (Optional) Enter the severity threshold                                   |
| __readonly__          | (Optional)  |
| <i>history-events</i> | (Optional) Show information about the history of past events              |

### Command Mode

- /exec

## show event manager policy-state

```
show event manager policy-state <name> [ module <module-id> ] [ __readonly__ { <policy-state> } ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                         |
| event               | Event Manager commands                                  |
| manager             | Event Manager commands                                  |
| policy-state        | Show information about the state of a policy            |
| <i>name</i>         | Name of the policy                                      |
| module              | (Optional) Get the information from a module            |
| <i>module-id</i>    | (Optional) Module Id                                    |
| __readonly__        | (Optional)  |
| <i>policy-state</i> | (Optional) Show information about the state of a policy |

### Command Mode

- /exec

# show event manager script system

```
show event manager script system { all | <script-name> } [ __readonly__ <script_system_details> ]
```

## Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show running system information                          |
| event                        | Event Manager commands                                   |
| manager                      | Event Manager commands                                   |
| script                       | Show information about a script policy                   |
| system                       | Show information about a system script policy            |
| all                          | Show all the available system script policies            |
| <i>script-name</i>           | Name of the system script policy                         |
| <i>__readonly__</i>          | (Optional)   |
| <i>script_system_details</i> | (Optional) Show Information about system script policies |

## Command Mode

- /exec

## show event manager system-policy

```
show event manager system-policy [ all | <policy-name> ] [ __readonly__ { [ TABLE_eem [ <thresh_min> ] [ <thresh_max> ] <event_name> <event_description> <event_overridable> ] } ]
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information  |
| event                    | Event Manager commands   |
| manager                  | Event Manager commands   |
| system-policy            | Show information about default system policies                             |
| all                      | (Optional) Show all policies (including advanced and non-overridable ones) |
| <i>policy-name</i>       | (Optional) Show detailed information about the specified policy            |
| <i>__readonly__</i>      | (Optional)   |
| TABLE_eem                | (Optional)   |
| <i>thresh_min</i>        | (Optional)   |
| <i>thresh_max</i>        | (Optional)   |
| <i>event_name</i>        | (Optional)   |
| <i>event_description</i> | (Optional)   |
| <i>event_overridable</i> | (Optional)   |

### Command Mode

- /exec



## F Show Commands

---

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## show fabric database dci

```
show fabric database dci [ { vrf { <vrf-name> | <vrf-known-name> } [ peer-id <peer-ip-address> ] [ detail ]
} ] [ __readonly__ [ TABLE_database_dci <vrf_name> <state> <flags> <profile> <instance> ] [
TABLE_database_dci_detail <packet_arrival_time> <sent_to_database_manager_at>
<received_parameters_from_database_manager_at> <sent_apply_to_configuration_manager_at>
<completed_executing_all_commands_at> <sent_un_apply_to_configuration_manager_at>
<completed_unapplying_all_commands_at> ] ]
```

### Syntax Description

|   |  |
|---|--|
| show  | Show running system information                      |
| fabric  | Fabric   |
| database  | Fabric Database                                      |
| dci   | DCI Profile Database                                 |
| vrf   | (Optional) Display per-VRF information               |
| <i>vrf-name</i>                                     | (Optional) VRF name                                  |
| <i>vrf-known-name</i>                               | (Optional) Known VRF name                            |
| peer-id   | (Optional) management ip address of peer             |
| <i>peer-ip-address</i>                              | (Optional) IP address in CIDR format                 |
| detail  | (Optional) Show detailed information                 |
| <i>__readonly__</i>                                 | (Optional) Read Only                                 |
| TABLE_database_dci                                  | (Optional) table show fabric database dci            |
| <i>vrf_name</i>                                     | (Optional)   |
| <i>state</i>  | (Optional)   |
| <i>flags</i>  | (Optional)   |
| <i>profile</i>                                      | (Optional)   |
| <i>instance</i>                                     | (Optional)   |
| TABLE_database_dci_detail                           | (Optional) detail for table show fabric database dci |
| <i>packet_arrival_time</i>                          | (Optional) Profile request time                      |
| <i>sent_to_database_manager_at</i>                  | (Optional) Profile request sent to DCNM              |
| <i>received_parameters_from_database_manager_at</i> | (Optional) Profile downloaded from DCNM              |
| <i>sent_apply_to_configuration_manager_at</i>       | (Optional) Profile sent to PPM to apply              |

|  |   |
|--|---|
| <i>completed_executing_all_commands_at</i>       | (Optional) Profile applied by PPM       |
| <i>sent_un_apply_to_configuration_manager_at</i> | (Optional) Profile un-apply sent to PPM |
| <i>completed_unapplying_all_commands_at</i>      | (Optional) Profile un-applied by PPM    |

**Command Mode**

- /exec

## show fabric database host

```
show fabric database host [ detail ] [ { vni <vni-id> } | { dot1q <vlan-id> } ] [ __readonly__ [
TABLE_database_host [ <trigger_source> ] [ <client_type> ] [ <got_trigger_at> ] [ <number_of_client_hosts>
] [ <number_of_associated_interfaces> ] [ <profile_be_un_applied_in_seconds> ] [
<new_vdp_requests_be_accepted_in_seconds> ] [ <recovered_profile_be_checked_for_validity_in_seconds>
] [ <mac_aging_checked_in_seconds> ] [ <sent_to_database_manager_at> ] [
<received_parameters_from_database_manager_at> ] [ <displaying_parameters_for_profile> ] [
<displaying_parameters_for_instance> ] [ <no_parameters_for_the_profile> ] [
<displaying_re_written_parameters_for_vpc_role> ] [ TABLE_parameter [ <parameter_index> ] [ <parameter>
] ] [ TABLE_static_profile <profile> <instance> <no_parameters_for_the_profile> ] [ TABLE_migrated_profile
<profile> <instance_index> <previous_profile> <previous_instance_index> ] [ TABLE_rollback_profile
<profile> <instance_index> ] [ <got_vlan_allocated_from_vlan_manager_at> ] [
<sent_apply_to_configuration_manager_at> ] [ <completed_executing_all_commands_at> ] [
<sent_to_vpc_peer_at> ] [ <completed_executing_all_commands_on_vpc_peer_at> ] [
<sent_un_apply_to_configuration_manager_at> ] [ <completed_unapplying_all_commands_at> ] ] [
TABLE_database_host_vni { [ <vni_id> ] [ <vlan_id> ] [ <state> <flag> <profile_name> <instance_name>
] [ <packet_arrival_time> <request_profile_time> <got_profile_time> <sent_to_PPM_time>
<profile_apply_time> <del_to_PPM_time> ] [ { TABLE_database_host_detail <interface> <encap> <flags>
<state> [ <vsi_id> ] [ <client> ] [ <host> ] } } ] [ TABLE_database_host_vlan { [ <vlan_id> ] [ <vni_id> ]
[ <state> <flag> <profile_name> <instance_name> ] [ <packet_arrival_time> <request_profile_time>
<got_profile_time> <sent_to_PPM_time> <profile_apply_time> <del_to_PPM_time> ] [ {
TABLE_database_host_detail <interface> <encap> <flags> <state> [ <vsi_id> ] } } ] [
TABLE_extranet_vrf_entries { <vrf> <13_vni> <state> <profile> <instance> } ] ]
```

### Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                          |
| fabric              | Fabric   |
| database            | Fabric Database  |
| host                | Host to profile mapping                                  |
| detail              | (Optional) Show hosts and interfaces                     |
| vni                 | (Optional) Virtual Network Identifier                    |
| vni-id              | (Optional)   |
| dot1q               | (Optional) Dot1Q Encapsulation                           |
| vlan-id             | (Optional)   |
| __readonly__        | (Optional) Read Only                                     |
| TABLE_database_host | (Optional) table show fabric database host {dot1q   vni} |
| trigger_source      | (Optional) TODO  |
| client_type         | (Optional) TODO  |

|   |                                      |
|---|--------------------------------------|
| <i>got_trigger_at</i>                                       | (Optional) TODO                      |
| <i>number_of_client_hosts</i>                               | (Optional) TODO                      |
| <i>number_of_associated_interfaces</i>                      | (Optional) TODO                      |
| <i>profile_be_un_applied_in_seconds</i>                     | (Optional) TODO                      |
| <i>new_vdp_requests_be_accepted_in_seconds</i>              | (Optional) TODO                      |
| <i>recovered_profile_be_checked_for_validity_in_seconds</i> | (Optional) TODO                      |
| <i>mac_aging_checked_in_seconds</i>                         | (Optional) TODO                      |
| <i>sent_to_database_manager_at</i>                          | (Optional) TODO                      |
| <i>received_parameters_from_database_manager_at</i>         | (Optional) TODO                      |
| <i>displaying_parameters_for_profile</i>                    | (Optional) TODO                      |
| <i>displaying_parameters_for_instance</i>                   | (Optional) TODO                      |
| <i>no_parameters_for_the_profile</i>                        | (Optional) TODO                      |
| <i>displaying_re_written_parameters_for_vpc_role</i>        | (Optional) TODO                      |
| TABLE_parameter   | (Optional) table show the parameters |
| <i>parameter_index</i>                                      | (Optional) TODO                      |
| <i>parameter</i>  | (Optional) TODO                      |
| TABLE_static_profile  | (Optional) show static profile       |
| <i>profile</i>  | (Optional) TODO                      |
| <i>instance</i>   | (Optional) TODO                      |
| <i>no_parameters_for_the_profile</i>                        | (Optional) TODO                      |
| TABLE_migrated_profile                                      | (Optional) show migrated profile     |
| <i>profile</i>  | (Optional) TODO                      |
| <i>instance_index</i>                                       | (Optional) TODO                      |
| <i>previous_profile</i>                                     | (Optional) TODO                      |
| <i>previous_instance_index</i>                              | (Optional) TODO                      |
| TABLE_rollback_profile                                      | (Optional) show rollback profile     |
| <i>profile</i>  | (Optional) TODO                      |
| <i>instance_index</i>                                       | (Optional) TODO                      |
| <i>got_vlan_allocated_from_vlan_manager_at</i>              | (Optional) TODO                      |

|  |   |
|--|---|
| <i>sent_apply_to_configuration_manager_at</i>          | (Optional) TODO                                       |
| <i>completed_executing_all_commands_at</i>             | (Optional) TODO                                       |
| <i>sent_to_vpc_peer_at</i>                             | (Optional) TODO                                       |
| <i>completed_executing_all_commands_on_vpc_peer_at</i> | (Optional) TODO                                       |
| <i>sent_un_apply_to_configuration_manager_at</i>       | (Optional) TODO                                       |
| <i>completed_unapplying_all_commands_at</i>            | (Optional) TODO                                       |
| TABLE_database_host_vni                                | (Optional) table show fabric database host vni based  |
| <i>vni_id</i>  | (Optional) TODO Add comment                           |
| <i>vlan_id</i>   | (Optional) TODO Add comment                           |
| <i>state</i>   | (Optional) TODO Add comment                           |
| <i>flag</i>  | (Optional) TODO                                       |
| <i>profile_name</i>                                    | (Optional) TODO                                       |
| <i>instance_name</i>                                   | (Optional) TODO                                       |
| <i>packet_arrival_time</i>                             | (Optional) TODO                                       |
| <i>request_profile_time</i>                            | (Optional) TODO                                       |
| <i>got_profile_time</i>                                | (Optional) TODO                                       |
| <i>sent_to_PPM_time</i>                                | (Optional) TODO                                       |
| <i>profile_apply_time</i>                              | (Optional) TODO                                       |
| <i>del_to_PPM_time</i>                                 | (Optional) TODO                                       |
| TABLE_database_host_detail                             | (Optional) table show fabric database host detail     |
| <i>interface</i>                                       | (Optional) TODO                                       |
| <i>encap</i>   | (Optional) TODO                                       |
| <i>flags</i>   | (Optional) TODO                                       |
| <i>state</i>   | (Optional) TODO                                       |
| <i>vsi_id</i>  | (Optional) TODO                                       |
| <i>client</i>  | (Optional) TODO                                       |
| <i>host</i>  | (Optional) TODO                                       |
| TABLE_database_host_vlan                               | (Optional) table show fabric database host vlan based |
| <i>vlan_id</i>   | (Optional) TODO Add comment                           |

|                             |   |
|-----------------------------|---|
| <i>vni_id</i>               | (Optional) TODO Add comment                       |
| <i>state</i>                | (Optional) TODO Add comment                       |
| <i>flag</i>                 | (Optional) TODO                                   |
| <i>profile_name</i>         | (Optional) TODO                                   |
| <i>instance_name</i>        | (Optional) TODO                                   |
| <i>packet_arrival_time</i>  | (Optional) TODO                                   |
| <i>request_profile_time</i> | (Optional) TODO                                   |
| <i>got_profile_time</i>     | (Optional) TODO                                   |
| <i>sent_to_PPM_time</i>     | (Optional) TODO                                   |
| <i>profile_apply_time</i>   | (Optional) TODO                                   |
| <i>del_to_PPM_time</i>      | (Optional) TODO                                   |
| TABLE_database_host_detail  | (Optional) table show fabric database host detail |
| <i>interface</i>            | (Optional) TODO                                   |
| <i>encap</i>                | (Optional) TODO                                   |
| <i>flags</i>                | (Optional) TODO                                   |
| <i>state</i>                | (Optional) TODO                                   |
| <i>vsi_id</i>               | (Optional) TODO                                   |
| TABLE_extranet_vrf_entries  | (Optional) table extranet VRF entries             |
| <i>vrf</i>                  | (Optional) TODO                                   |
| <i>l3_vni</i>               | (Optional) TODO                                   |
| <i>state</i>                | (Optional) TODO                                   |
| <i>profile</i>              | (Optional) TODO                                   |
| <i>instance</i>             | (Optional) TODO                                   |

### Command Mode

- /exec

## show fabric database host statistics

```
show fabric database host statistics [ __readonly__ [ TABLE_database_host_statistics { [ <data_snoop_triggers>
] [ <data_snoop_deletes> ] [ <data_snoop_responses> ] [ <vdp_association_requests> ] [
<vdp_deassociation_requests> ] [ <vdp_association_responses> ] [ <vdp_error_responses> ] [
<unsupported_interfaces> ] [ <no_profile_map_errors> ] [ <outstanding_delete_retry_add> ] [
<duplicate_add_existing_host> ] [ <hmm_api_error_cannot_add_host> ] [ <existing_profile_new_host> ] [
<profile_apply_from_vpc_peer> ] [ <profile_un_apply_from_vpc_peer> ] [ <host_apply_from_vpc_peer> ]
[ <host_un_apply_from_vpc_peer> ] [ <early_delete_cancel_add> ] [ <dhcp_requests> ] [ <dhcp_responses>
] [ <dhcp_error_responses> ] [ <adbm_requests> ] [ <adbm_responses> ] [ <adbm_error_responses> ] [
<adbm_error_requests> ] [ <adbm_db_notifications> ] [ <vnseg_no_bridge_domain> ] [
<vnseg_encap_responses> ] [ <vnseg_vni_responses> ] [ <vnseg_unknown_responses> ] [
<vnseg_bd_down_notif> ] [ <bd_mgr_requests> ] [ <bd_mgr_success_responses> ] [
<bd_mgr_failure_responses> ] [ <bd_mgr_unreserve> ] [ <bd_mgr_inconsistencies> ] [ <no_mac_on_bd_notif>
] [ <refresh_failures> ] [ <profile_apply_received> ] [ <profile_vpc_queued> ] [ <profile_local_apply_queued>
] [ <profile_local_unapply_queued> ] [ <profile_apply_sent> ] [ <profile_apply_responses> ] [
<profile_apply_success> ] [ <profile_unapply_success> ] [ <profile_apply_failure> ] [ <profile_commands>
] [ <profile_error_incomplete_configs> ] [ <profile_api_error> ] [ <profile_unapply_sent> ] [
<profile_top_queue_adds> ] [ <profile_high_queue_adds> ] [ <profile_low_queue_adds> ] [
<profile_unapply_failure> ] [ <outstanding_vlan_requests> ] [ <outstanding_adbm_requests> ] [
<outstanding_profile_applies> ] [ <outstanding_vpc_profile_applies> ] [ <node_recon_pending> ] [
<node_recon_attempts> ] [ <node_recon_failures> ] } ] ] ]
```

### Syntax Description

|                                   |   |
|-----------------------------------|---|
| show                              | Show running system information                       |
| fabric                            | Fabric  |
| database                          | Fabric Database                                       |
| host                              | Auto-configured Hosts                                 |
| statistics                        | Statistics - Mostly shows non-zero values             |
| <u>__readonly__</u>               | (Optional) Read Only                                  |
| TABLE_database_host_statistics    | (Optional) table show fabric database host statistics |
| <i>data_snoop_triggers</i>        | (Optional) TODO                                       |
| <i>data_snoop_deletes</i>         | (Optional) TODO                                       |
| <i>data_snoop_responses</i>       | (Optional) TODO                                       |
| <i>vdp_association_requests</i>   | (Optional) TODO                                       |
| <i>vdp_deassociation_requests</i> | (Optional) TODO                                       |
| <i>vdp_association_responses</i>  | (Optional) TODO                                       |
| <i>vdp_error_responses</i>        | (Optional) TODO                                       |

|                                       |                 |
|---------------------------------------|-----------------|
| <i>unsupported_interfaces</i>         | (Optional) TODO |
| <i>no_profile_map_errors</i>          | (Optional) TODO |
| <i>outstanding_delete_retry_add</i>   | (Optional) TODO |
| <i>duplicate_add_existing_host</i>    | (Optional) TODO |
| <i>hmm_api_error_cannot_add_host</i>  | (Optional) TODO |
| <i>existing_profile_new_host</i>      | (Optional) TODO |
| <i>profile_apply_from_vpc_peer</i>    | (Optional) TODO |
| <i>profile_un_apply_from_vpc_peer</i> | (Optional) TODO |
| <i>host_apply_from_vpc_peer</i>       | (Optional) TODO |
| <i>host_un_apply_from_vpc_peer</i>    | (Optional) TODO |
| <i>early_delete_cancel_add</i>        | (Optional) TODO |
| <i>dhcp_requests</i>                  | (Optional) TODO |
| <i>dhcp_responses</i>                 | (Optional) TODO |
| <i>dhcp_error_responses</i>           | (Optional) TODO |
| <i>adbm_requests</i>                  | (Optional) TODO |
| <i>adbm_responses</i>                 | (Optional) TODO |
| <i>adbm_error_responses</i>           | (Optional) TODO |
| <i>adbm_error_requests</i>            | (Optional) TODO |
| <i>adbm_db_notifications</i>          | (Optional) TODO |
| <i>vnseg_no_bridge_domain</i>         | (Optional) TODO |
| <i>vnseg_encap_responses</i>          | (Optional) TODO |
| <i>vnseg_vni_responses</i>            | (Optional) TODO |
| <i>vnseg_unknown_responses</i>        | (Optional) TODO |
| <i>vnseg_bd_down_notif</i>            | (Optional) TODO |
| <i>bd_mgr_requests</i>                | (Optional) TODO |
| <i>bd_mgr_success_responses</i>       | (Optional) TODO |
| <i>bd_mgr_failure_responses</i>       | (Optional) TODO |
| <i>bd_mgr_unreserve</i>               | (Optional) TODO |
| <i>bd_mgr_inconsistencies</i>         | (Optional) TODO |



|   |                 |
|---|-----------------|
| <i>no_mac_on_bd_notif</i>               | (Optional) TODO |
| <i>refresh_failures</i>                 | (Optional) TODO |
| <i>profile_apply_received</i>           | (Optional) TODO |
| <i>profile_vpc_queued</i>               | (Optional) TODO |
| <i>profile_local_apply_queued</i>       | (Optional) TODO |
| <i>profile_local_unapply_queued</i>     | (Optional) TODO |
| <i>profile_apply_sent</i>               | (Optional) TODO |
| <i>profile_apply_responses</i>          | (Optional) TODO |
| <i>profile_apply_success</i>            | (Optional) TODO |
| <i>profile_unapply_success</i>          | (Optional) TODO |
| <i>profile_apply_failure</i>            | (Optional) TODO |
| <i>profile_commands</i>                 | (Optional) TODO |
| <i>profile_error_incomplete_configs</i> | (Optional) TODO |
| <i>profile_api_error</i>                | (Optional) TODO |
| <i>profile_unapply_sent</i>             | (Optional) TODO |
| <i>profile_top_queue_adds</i>           | (Optional) TODO |
| <i>profile_high_queue_adds</i>          | (Optional) TODO |
| <i>profile_low_queue_adds</i>           | (Optional) TODO |
| <i>profile_unapply_failure</i>          | (Optional) TODO |
| <i>outstanding_vlan_requests</i>        | (Optional) TODO |
| <i>outstanding_adbm_requests</i>        | (Optional) TODO |
| <i>outstanding_profile_applies</i>      | (Optional) TODO |
| <i>outstanding_vpc_profile_applies</i>  | (Optional) TODO |
| <i>node_recon_pending</i>               | (Optional) TODO |
| <i>node_recon_attempts</i>              | (Optional) TODO |
| <i>node_recon_failures</i>              | (Optional) TODO |

**Command Mode**

- /exec

## show fabric database host summary

```
show fabric database host summary [ __readonly__ [ TABLE_database_host_summary {
<number_of_instances_applied> <number_of_client_hosts> <recovery_timeout_minute>
<cleanup_timeout_minute> <client_add_suppression_timeout_minute> <mac_aging_timeout_minute>
<autoid_support> } ] ]
```

### Syntax Description

|  |  |
|--|--|
| show   | Show running system information                    |
| fabric                                       | Fabric   |
| database                                     | Fabric Database                                    |
| host   | Auto-configured Hosts                              |
| summary                                      | Summary  |
| <i>__readonly__</i>                          | (Optional) Read Only                               |
| <i>TABLE_database_host_summary</i>           | (Optional) table show fabric database host summary |
| <i>number_of_instances_applied</i>           | (Optional) TODO                                    |
| <i>number_of_client_hosts</i>                | (Optional) TODO                                    |
| <i>recovery_timeout_minute</i>               | (Optional) TODO                                    |
| <i>cleanup_timeout_minute</i>                | (Optional) TODO                                    |
| <i>client_add_suppression_timeout_minute</i> | (Optional) TODO                                    |
| <i>mac_aging_timeout_minute</i>              | (Optional) TODO                                    |
| <i>autoid_support</i>                        | (Optional) List of supported auto-generate ids     |

### Command Mode

- /exec

## show fabric database profile-map

```
show fabric database profile-map { global | [ <id> | interface <interface-id> ] } [ __readonly__ [
TABLE_database_profile_map { <map> <proto> <vni> <dot1q> <flags> <profile_name> } ] ]
```

### Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information                   |
| fabric                     | Fabric  |
| database                   | Fabric Database                                   |
| profile-map                | Profile Map                                       |
| global                     | Global profile (apply to all interfaces)          |
| <i>id</i>                  | (Optional) Profile Map ID                         |
| interface                  | (Optional) Specified interface to display         |
| <i>interface-id</i>        | (Optional) Name of interface                      |
| <i>__readonly__</i>        | (Optional) Read Only                              |
| TABLE_database_profile_map | (Optional) table show fabric database profile-map |
| <i>map</i>                 | (Optional) TODO                                   |
| <i>proto</i>               | (Optional) TODO                                   |
| <i>vni</i>                 | (Optional) TODO                                   |
| <i>dot1q</i>               | (Optional) TODO                                   |
| <i>flags</i>               | (Optional) TODO                                   |
| <i>profile_name</i>        | (Optional) TODO                                   |

### Command Mode

- /exec

## show fabric database static-host

```
show fabric database static-host [ __readonly__ { TABLE_database_static_host <host_key> <interface>
<state> <retry_delay> <retry_attempts> } ]
```

### Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information                   |
| fabric                     | Fabric  |
| database                   | Fabric Database                                   |
| static-host                | Configured Static Hosts                           |
| __readonly__               | (Optional) Read Only                              |
| TABLE_database_static_host | (Optional) table show fabric database static-host |
| host_key                   | (Optional) static-host key                        |
| interface                  | (Optional) interface name                         |
| state                      | (Optional) static-host state                      |
| retry_delay                | (Optional) seconds until next retry               |
| retry_attempts             | (Optional) cumulative retry attempts              |

### Command Mode

- /exec

## show fabric database statistics

```
show fabric database statistics [ type { network | profile | cabling | partition | bl-dci | host } ] [ __readonly__
{ TABLE_types <dbtype> <requests> <dispatched> <not_dispatched> <re_dispatched> } [ { TABLE_dbs
<is_active> <type> <prot> <serverdb> [ <reqs> <ok> <nores> <err> <tmout> <pend> ] } ] { LastPollTime
<poll_time> } { LastUpdateTime <update_time> } [ { TABLE_updates <update_type> <update_status> } ]
]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information            |
| fabric                | Fabric                                     |
| database              | Show Fabric Database                       |
| statistics            | Show database statistics                   |
| type                  | (Optional) Enter database type             |
| network               | (Optional) Network Database                |
| profile               | (Optional) Port or Switch Profile Database |
| cabling               | (Optional) Cable Management Database       |
| partition             | (Optional) Partition Database              |
| bl-dci                | (Optional) Border Leaf - DCI               |
| host                  | (Optional) Host                            |
| __readonly__          | (Optional)                                 |
| TABLE_types           | (Optional) totals by type                  |
| <i>dbtype</i>         | (Optional) type of database                |
| <i>requests</i>       | (Optional) number of requests              |
| <i>dispatched</i>     | (Optional) number dispatched               |
| <i>not_dispatched</i> | (Optional) number not dispatched           |
| <i>re_dispatched</i>  | (Optional) number re-dispatched            |
| TABLE_dbs             | (Optional) per-database stats              |
| <i>is_active</i>      | (Optional) active/inactive                 |
| <i>type</i>           | (Optional) database type                   |
| <i>prot</i>           | (Optional) database protocol               |
| <i>serverdb</i>       | (Optional) server database                 |

|                      |  |
|----------------------|--|
| <i>reqs</i>          | (Optional) requests                              |
| <i>ok</i>            | (Optional) OK                                    |
| <i>nores</i>         | (Optional) nores                                 |
| <i>err</i>           | (Optional) err                                   |
| <i>tmout</i>         | (Optional) tmout                                 |
| <i>pend</i>          | (Optional) pend                                  |
| LastPollTime         | (Optional) last poll time                        |
| <i>poll_time</i>     | (Optional) poll time                             |
| LastUpdateTime       | (Optional) last update time for db status change |
| <i>update_time</i>   | (Optional) update time                           |
| TABLE_updates        | (Optional) totals ty type                        |
| <i>update_type</i>   | (Optional) db type                               |
| <i>update_status</i> | (Optional) db status                             |

**Command Mode**

- /exec

## show fabric forwarding host-db

```
show fabric forwarding host-db [ { vrf { <vrf-name> | <vrf-known-name> | all } } ] [ __readonly__ [
TABLE_forwarding_host_db_vrf { <vrf> <vrf_id> <vrf_state> <vrf_reason> <vni_id> <refcount>
<conversational_learning> [ TABLE_limit_type <limit_type> <enable> <threshold> <action> ] [ TABLE_ipv4
<address_family> <vrf> <table_id> <table_state> <refcount> <local_hosts> <remote_hosts> <aggregates>
[ TABLE_aggregate_list <aggregate_subnet_prefix_list> <aggregate_subnet_prefix_state> ] ] [ TABLE_ipv6
<address_family> <vrf> <table_id> <table_state> <refcount> <local_hosts> <remote_hosts> <aggregates>
[ TABLE_aggregate_list <aggregate_subnet_prefix_list> <aggregate_subnet_prefix_state> ] ] ] ] ]
```

### Syntax Description

|                                |   |
|--------------------------------|---|
| show                           | Show running system information                         |
| fabric                         | Fabric  |
| forwarding                     | Fabric Forwarding Protocol: Host Mobility Manager (HMM) |
| host-db                        | Host Database info                                      |
| vrf                            | (Optional) Display per-VRF information                  |
| <i>vrf-name</i>                | (Optional) VRF name                                     |
| <i>vrf-known-name</i>          | (Optional) Known VRF name                               |
| all                            | (Optional) Display information for all VRFs             |
| __readonly__                   | (Optional) Read Only                                    |
| TABLE_forwarding_host_db_vrf   | (Optional) table show fabric forwarding host-db vrf     |
| <i>vrf</i>                     | (Optional) TODO   |
| <i>vrf_id</i>                  | (Optional) TODO   |
| <i>vrf_state</i>               | (Optional) TODO   |
| <i>vrf_reason</i>              | (Optional) TODO   |
| <i>vni_id</i>                  | (Optional) TODO   |
| <i>refcount</i>                | (Optional) TODO   |
| <i>conversational_learning</i> | (Optional) TODO   |
| TABLE_limit_type               | (Optional) table for limit type                         |
| <i>limit_type</i>              | (Optional) TODO   |
| <i>enable</i>                  | (Optional) TODO   |
| <i>threshold</i>               | (Optional) TODO   |
| <i>action</i>                  | (Optional) TODO   |

|                                      |   |
|--------------------------------------|---|
| TABLE_ipv4                           | (Optional) Information for address family IPv4    |
| <i>address_family</i>                | (Optional) TODO                                   |
| <i>vrf</i>                           | (Optional) TODO                                   |
| <i>table_id</i>                      | (Optional) TODO                                   |
| <i>table_state</i>                   | (Optional) TODO                                   |
| <i>refcount</i>                      | (Optional) TODO                                   |
| <i>local_hosts</i>                   | (Optional) TODO                                   |
| <i>remote_hosts</i>                  | (Optional) TODO                                   |
| <i>aggregates</i>                    | (Optional) TODO                                   |
| TABLE_aggregate_list                 | (Optional) table for aggregate subnet prefix list |
| <i>aggregate_subnet_prefix_list</i>  | (Optional) TODO                                   |
| TABLE_ipv6                           | (Optional) Information for address family IPv6    |
| <i>address_family</i>                | (Optional) TODO                                   |
| <i>vrf</i>                           | (Optional) TODO                                   |
| <i>table_id</i>                      | (Optional) TODO                                   |
| <i>table_state</i>                   | (Optional) TODO                                   |
| <i>refcount</i>                      | (Optional) TODO                                   |
| <i>local_hosts</i>                   | (Optional) TODO                                   |
| <i>remote_hosts</i>                  | (Optional) TODO                                   |
| <i>aggregates</i>                    | (Optional) TODO                                   |
| TABLE_aggregate_list                 | (Optional) table for aggregate subnet prefix list |
| <i>aggregate_subnet_prefix_list</i>  | (Optional) TODO                                   |
| <i>aggregate_subnet_prefix_state</i> | (Optional) TODO                                   |

### Command Mode

- /exec



# show fabric forwarding ip local

```
show fabric forwarding ip { local-host-db [ { vrf { <vrf-name> | <vrf-known-name> | all } } ] [ <ip-prefix>
] } [ __readonly__ [ TABLE_forwarding_ip_local_host_db_vrf { <hmm_host> <vrf> <status_in> {
TABLE_hosts <host> <mac_address> <svi> <flags_0x> <physical_interface> <status> } } ] ]
```

## Syntax Description

|                                       |  |
|---------------------------------------|--|
| show                                  | Show running system information                              |
| fabric                                | Fabric   |
| forwarding                            | Fabric Forwarding Protocol: Host Mobility Manager (HMM)      |
| ip                                    | Display IP information                                       |
| local-host-db                         | HMM Local Host Database                                      |
| vrf                                   | (Optional) Display per-VRF information                       |
| <i>vrf-name</i>                       | (Optional) VRF name  |
| <i>vrf-known-name</i>                 | (Optional) Known VRF name                                    |
| all                                   | (Optional) Display information for all VRFs                  |
| <i>ip-prefix</i>                      | (Optional) IP prefix in CIDR format                          |
| <i>__readonly__</i>                   | (Optional) Read Only   |
| TABLE_forwarding_ip_local_host_db_vrf | (Optional) table show fabric forwarding ip local-host-db vrf |
| <i>hmm_host</i>                       | (Optional) TODO  |
| <i>vrf</i>                            | (Optional) TODO  |
| <i>status_in</i>                      | (Optional) TODO  |
| TABLE_hosts                           | (Optional) table show information for each hosts             |
| <i>host</i>                           | (Optional) TODO  |
| <i>mac_address</i>                    | (Optional) TODO  |
| <i>svi</i>                            | (Optional) TODO  |
| <i>flags_0x</i>                       | (Optional) TODO  |
| <i>physical_interface</i>             | (Optional) TODO  |
| <i>status</i>                         | (Optional) *-valid, x-deleted, a-aged out, c-cleaned         |

## Command Mode

- /exec

## show fabric forwarding ipv6 local

```
show fabric forwarding ipv6 { local-host-db [ { vrf { <vrf-name> | <vrf-known-name> | all } } ] [ <ipv6-prefix>
] } [ __readonly__ [ TABLE_forwarding_ipv6_local_host_db_vrf { <hmm_host> <vrf> <status_in> {
TABLE_hosts <host> <mac_address> <svi> <flags_0x> <physical_interface> <status> } } ] ]
```

### Syntax Description

|   |  |
|---|--|
| show                                    | Show running system information                                |
| fabric                                  | Fabric   |
| forwarding                              | Fabric Forwarding Protocol: Host Mobility Manager (HMM)        |
| ipv6                                    | Display IPv6 information                                       |
| local-host-db                           | HMM Local Host Database  |
| vrf                                     | (Optional) Display per-VRF information                         |
| <i>vrf-name</i>                         | (Optional) VRF name  |
| <i>vrf-known-name</i>                   | (Optional) Known VRF name                                      |
| all                                     | (Optional) Display information for all VRFs                    |
| __readonly__                            | (Optional) Read Only   |
| TABLE_forwarding_ipv6_local_host_db_vrf | (Optional) table show fabric forwarding ipv6 local-host-db vrf |
| <i>hmm_host</i>                         | (Optional) TODO  |
| <i>vrf</i>                              | (Optional) TODO  |
| <i>status_in</i>                        | (Optional) TODO  |
| TABLE_hosts                             | (Optional) table show information for each hosts               |
| <i>host</i>                             | (Optional) TODO  |
| <i>mac_address</i>                      | (Optional) TODO  |
| <i>svi</i>                              | (Optional) TODO  |
| <i>flags_0x</i>                         | (Optional) TODO  |
| <i>physical_interface</i>               | (Optional) TODO  |
| <i>status</i>                           | (Optional) *-valid, x-deleted, a-aged out, c-cleaned           |

### Command Mode

- /exec

## show fabric multicast globals

```
show fabric multicast globals [ __readonly__ <pruning> <switch_role> <fabric_control_seg>
<peer_fabric_ctrl_addr> <advertise_vpc_rpf_routes> <created_vni_list> <fwd_encap> <mrrib_sync_delay>
<bgp_eor_rcvd> <bgp_eor_rcvd_ts> <cli_done_rcvd> <cli_done_rcvd_ts> ]
```

### Syntax Description

|                                 |                                 |
|---------------------------------|---------------------------------|
| show                            | Show running system information |
| fabric                          | Fabric                          |
| multicast                       | Multicast information           |
| globals                         | show the global settings        |
| <i>__readonly__</i>             | (Optional)                      |
| <i>pruning</i>                  | (Optional)                      |
| <i>switch_role</i>              | (Optional)                      |
| <i>fabric_control_seg</i>       | (Optional)                      |
| <i>peer_fabric_ctrl_addr</i>    | (Optional)                      |
| <i>advertise_vpc_rpf_routes</i> | (Optional)                      |
| <i>created_vni_list</i>         | (Optional)                      |
| <i>fwd_encap</i>                | (Optional)                      |
| <i>mrrib_sync_delay</i>         | (Optional)                      |
| <i>bgp_eor_rcvd</i>             | (Optional)                      |
| <i>bgp_eor_rcvd_ts</i>          | (Optional)                      |
| <i>cli_done_rcvd</i>            | (Optional)                      |
| <i>cli_done_rcvd_ts</i>         | (Optional)                      |

### Command Mode

- /exec

## show fabric multicast ipv4 l2 vni

```
show fabric multicast { ipv4 | ipv6 } { l2-mroute } vni { <vni-id> | all } [ __readonly__ TABLE_vni <vni-id>
[ TABLE_mroute <mroute_desc> [ TABLE_fabric <fabric_node_addr> ] ] ]
```

### Syntax Description

|                         |                                       |
|-------------------------|---------------------------------------|
| show                    | Show running system information       |
| fabric                  | Fabric                                |
| multicast               | Multicast information                 |
| ipv4                    | Display IP information                |
| ipv6                    | Display IPv6 information              |
| l2-mroute               | display l2-mroute status              |
| vni                     | Virtual Network Identifier            |
| <i>vni-id</i>           | VNI number                            |
| all                     | Display all L2 VNI NGMVPN is aware of |
| <i>__readonly__</i>     | (Optional)                            |
| <i>TABLE_vni</i>        | (Optional)                            |
| <i>vni-id</i>           | (Optional)                            |
| <i>TABLE_mroute</i>     | (Optional)                            |
| <i>mroute_desc</i>      | (Optional)                            |
| <i>TABLE_fabric</i>     | (Optional)                            |
| <i>fabric_node_addr</i> | (Optional)                            |

### Command Mode

- /exec

# show fabric multicast statistics

show fabric multicast [ internal ] statistics

## Syntax Description

|            |                                       |
|------------|---------------------------------------|
| show       | Show running system information       |
| fabric     | Fabric                                |
| multicast  | Multicast information                 |
| internal   | (Optional) Commands for internal use  |
| statistics | Show the state and size of the buffer |

## Command Mode

- /exec

## show fabric multicast vrf

```
show fabric multicast vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_vrf
<context_name><context_id><vprime_iod><vnid> } ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                |
| fabric                | Fabric   |
| multicast             | Multicast information                          |
| vrf                   | Display per-VRF information                    |
| <i>vrf-name</i>       | (Optional) VRF name                            |
| <i>vrf-known-name</i> | (Optional) Known VRF name                      |
| all                   | (Optional) Display all VRFs NGMVPN is aware of |
| __readonly__          | (Optional)                                     |
| TABLE_vrf             | (Optional)                                     |

### Command Mode

- /exec

# show fc2 bind

```
show fc2 bind [ __readonly__ { TABLE_fc2bind <SOCKET> <FLAGS> <NLEVEL> <RULE> <SINDEX>
<VSAN> <D_ID> <MASK> <TYPE> <SUBTYPE> <M_VALUES> } ]
```

## Syntax Description

|                 |                                 |
|-----------------|---------------------------------|
| show            | Show running system information |
| fc2             | show fc2 tables and statistics  |
| bind            | show fc2 socket bindings        |
| __readonly__    | (Optional) Read only            |
| TABLE_fc2bind   | (Optional) show fc2 bind        |
| <i>SOCKET</i>   | (Optional) socket               |
| <i>FLAGS</i>    | (Optional) flags                |
| <i>NLEVEL</i>   | (Optional) nlevel               |
| <i>RULE</i>     | (Optional) rule                 |
| <i>SINDEX</i>   | (Optional) sidnex               |
| <i>VSAN</i>     | (Optional) vsan                 |
| <i>D_ID</i>     | (Optional) d_id                 |
| <i>MASK</i>     | (Optional) mask                 |
| <i>TYPE</i>     | (Optional) type                 |
| <i>SUBTYPE</i>  | (Optional) subtype              |
| <i>M_VALUES</i> | (Optional) m_values             |

## Command Mode

- /exec

# show fc2 classf

```
show fc2 classf [ __readonly__ { TABLE_fc2classf <HIX> <VSAN> <S_ID> <D_ID> <IFIDX> <R_A_TOV>
<E_D_TOV> <F-SO> <RC> <RS> <CS> <EE> <2-SO> <RS> <3-SO> <RS> <EECNT> <TCCNT> <FCNT>
<REFCNT> } ]
```

## Syntax Description

|                 |                                 |
|-----------------|---------------------------------|
| show            | Show running system information |
| fc2             | show fc2 tables and statistics  |
| classf          | show fc2 classf sessions        |
| __readonly__    | (Optional) Read only            |
| TABLE_fc2classf | (Optional) show fc2 classf      |
| HIX             | (Optional) hix                  |
| VSAN            | (Optional) vsan                 |
| S_ID            | (Optional) sid                  |
| D_ID            | (Optional) did                  |
| IFIDX           | (Optional) ifidx                |
| R_A_TOV         | (Optional) r_a_tov              |
| E_D_TOV         | (Optional) e_d_tov              |
| F-SO            | (Optional) f-so                 |
| RC              | (Optional) rc                   |
| RS              | (Optional) rs                   |
| CS              | (Optional) cs                   |
| EE              | (Optional) ee                   |
| 2-SO            | (Optional) 2-so                 |
| RS              | (Optional) rs                   |
| 3-SO            | (Optional) 3-so                 |
| RS              | (Optional) rs                   |
| EECNT           | (Optional) eecnt                |
| TCCNT           | (Optional) tcnt                 |
| FCNT            | (Optional) fcnt                 |



|               |                   |
|---------------|-------------------|
| <i>REFCNT</i> | (Optional) refcnt |
|---------------|-------------------|

**Command Mode**

- /exec

## show fc2 exchange

```
show fc2 exchange [ __readonly__ { TABLE_ExchngInfo [ <ECB_INUSE> ] [ <ECB_DROPPED> ] [
<ECB_TOTAL> ] [ <ECB_MAX> ] } [ TABLE_fc2exchange <HIX> <VSAN> <X_ID> <OX_ID> <RX_ID>
<O_ID> <R_ID> <ESTAT> <STATE> <SOCKET> <DIFINDEX> <CS> <TYPE> <SEQID> <TCNT>
<RCNT> <LO> <HI> <SSTAT> <LOGIN> ] ]
```

### Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| fc2                 | show fc2 tables and statistics  |
| exchange            | show fc2 active exchanges       |
| <i>__readonly__</i> | (Optional) Read only            |
| TABLE_ExchngInfo    | (Optional) ecb info             |
| <i>ECB_INUSE</i>    | (Optional) ecb in use           |
| <i>ECB_DROPPED</i>  | (Optional) ecb dropped          |
| <i>ECB_TOTAL</i>    | (Optional) ecb total            |
| <i>ECB_MAX</i>      | (Optional) ecb threshold        |
| TABLE_fc2exchange   | (Optional) show fc2 exchange    |
| <i>HIX</i>          | (Optional) hix                  |
| <i>VSAN</i>         | (Optional) vsan                 |
| <i>X_ID</i>         | (Optional) xid                  |
| <i>OX_ID</i>        | (Optional) oxid                 |
| <i>RX_ID</i>        | (Optional) rxid                 |
| <i>O_ID</i>         | (Optional) o_id                 |
| <i>R_ID</i>         | (Optional) r_id                 |
| <i>ESTAT</i>        | (Optional) estat                |
| <i>STATE</i>        | (Optional) state                |
| <i>SOCKET</i>       | (Optional) socket               |
| <i>DIFINDEX</i>     | (Optional) dIFINDEX             |
| <i>CS</i>           | (Optional) cs                   |
| <i>TYPE</i>         | (Optional) type                 |

|              |                  |
|--------------|------------------|
| <i>SEQID</i> | (Optional) seqid |
| <i>TCNT</i>  | (Optional) tcnt  |
| <i>RCNT</i>  | (Optional) rcnt  |
| <i>LO</i>    | (Optional) lo    |
| <i>HI</i>    | (Optional) hi    |
| <i>SSTAT</i> | (Optional) sstat |
| <i>LOGIN</i> | (Optional) login |

**Command Mode**

- /exec

# show fc2 exchresp

```
show fc2 exchresp [ __readonly__ { TABLE_fc2exchresp <HIX> <VSAN> <OX_ID> <S_ID> <CS>
<SIFINDEX> <OX_ID2> <RX_ID2> <O_ID> <R_ID> <ESTAT> <STATE> <SOCKET> <TYPE> <SEQID>
<TCNT> <RCNT> <LO> <HI> <SSTAT> } ]
```

## Syntax Description

|                   |                                     |
|-------------------|-------------------------------------|
| show              | Show running system information     |
| fc2               | show fc2 tables and statistics      |
| exchresp          | show fc2 active responder exchanges |
| __readonly__      | (Optional) Read only                |
| TABLE_fc2exchresp | (Optional) show fc2 exchresp        |
| HIX               | (Optional) hix                      |
| VSAN              | (Optional) vsan                     |
| OX_ID             | (Optional) oxid                     |
| S_ID              | (Optional) sid                      |
| CS                | (Optional) cs                       |
| SIFINDEX          | (Optional) sifindex                 |
| OX_ID2            | (Optional) oxid                     |
| RX_ID2            | (Optional) rxid                     |
| O_ID              | (Optional) oid                      |
| R_ID              | (Optional) rid                      |
| ESTAT             | (Optional) estat                    |
| STATE             | (Optional) state                    |
| SOCKET            | (Optional) socket                   |
| TYPE              | (Optional) type                     |
| SEQID             | (Optional) seqid                    |
| TCNT              | (Optional) tcnt                     |
| RCNT              | (Optional) rcnt                     |
| LO                | (Optional) lo                       |
| HI                | (Optional) hi                       |

|              |                  |
|--------------|------------------|
| <i>SSTAT</i> | (Optional) sstat |
|--------------|------------------|

**Command Mode**

- /exec

# show fc2 flogi

```
show fc2 flogi [ __readonly__ { TABLE_fc2flogi <HIX> <VSAN> <S_ID> <FLOGI> <IFINDEX> <TYPE>
} ]
```

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| fc2            | show fc2 tables and statistics  |
| flogi          | show fc2 flogi table            |
| __readonly__   | (Optional) Read only            |
| TABLE_fc2flogi | (Optional) show fc2 flogi       |
| <i>HIX</i>     | (Optional) hix                  |
| <i>VSAN</i>    | (Optional) vsan                 |
| <i>S_ID</i>    | (Optional) sid                  |
| <i>FLOGI</i>   | (Optional) flogi                |
| <i>IFINDEX</i> | (Optional) ifindex              |
| <i>TYPE</i>    | (Optional) type                 |

## Command Mode

- /exec

## show fc2 nport

```
show fc2 nport [ __readonly__ { TABLE_fc2nport <REF> <VSAN> <D_ID> <MASK> <FL> <ST>
<IFINDEX> <CF> <TC> <2-SO> <IC> <RC> <RS> <CS> <EE> <3-SO> <3-SO-IC> <3-SO-RC> <3-SO-RS>
<3-SO-CS> <3-SO-EE> } ]
```

### Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| fc2            | show fc2 tables and statistics  |
| nport          | show fc2 local nports           |
| __readonly__   | (Optional) Read only            |
| TABLE_fc2nport | (Optional) show fc2 nport       |
| <i>REF</i>     | (Optional) ref                  |
| <i>VSAN</i>    | (Optional) vsan                 |
| <i>D_ID</i>    | (Optional) did                  |
| <i>MASK</i>    | (Optional) mask                 |
| <i>FL</i>      | (Optional) fl                   |
| <i>ST</i>      | (Optional) st                   |
| <i>IFINDEX</i> | (Optional) ifindex              |
| <i>CF</i>      | (Optional) cf                   |
| <i>TC</i>      | (Optional) tc                   |
| <i>2-SO</i>    | (Optional) 2so                  |
| <i>IC</i>      | (Optional) ic                   |
| <i>RC</i>      | (Optional) rc                   |
| <i>RS</i>      | (Optional) rs                   |
| <i>CS</i>      | (Optional) cs                   |
| <i>EE</i>      | (Optional) ee                   |
| <i>3-SO</i>    | (Optional) 3so                  |
| <i>3-SO-IC</i> | (Optional) 3so-ic               |
| <i>3-SO-RC</i> | (Optional) 3so-rc               |
| <i>3-SO-RS</i> | (Optional) 3so-rs               |

|                |                   |
|----------------|-------------------|
| <i>3-SO-CS</i> | (Optional) 3so-cs |
| <i>3-SO-EE</i> | (Optional) 3so-ee |

**Command Mode**

- /exec



## show fc2 plogi

```
show fc2 plogi [ __readonly__ { TABLE_fc2plogi <HIX> <ADDRESS> <VSAN> <S_ID> <D_ID>
<IF_INDEX> <FL> <STATE> <CF> <TC> <2-SO> <IC> <RC> <RS> <CS> <EE> <3-SO> <3SO_IC>
<3SO_RC> <3SO_RS> <3SO_CS> <3SO_EE> <EECNT> <TCCNT> <2CNT> <3CNT> <REFCNT> } ]
```

### Syntax Description

|                 |                                 |
|-----------------|---------------------------------|
| show            | Show running system information |
| fc2             | show fc2 tables and statistics  |
| plogi           | show fc2 plogi sessions         |
| __readonly__    | (Optional) Read only            |
| TABLE_fc2plogi  | (Optional) show fc2 plogi       |
| <i>HIX</i>      | (Optional) hix                  |
| <i>ADDRESS</i>  | (Optional) address              |
| <i>VSAN</i>     | (Optional) vsan                 |
| <i>S_ID</i>     | (Optional) sid                  |
| <i>D_ID</i>     | (Optional) did                  |
| <i>IF_INDEX</i> | (Optional) ifindex              |
| <i>FL</i>       | (Optional) fl                   |
| <i>STATE</i>    | (Optional) state                |
| <i>CF</i>       | (Optional) cf                   |
| <i>TC</i>       | (Optional) tc                   |
| <i>2-SO</i>     | (Optional) 2so                  |
| <i>IC</i>       | (Optional) ic                   |
| <i>RC</i>       | (Optional) rc                   |
| <i>RS</i>       | (Optional) rs                   |
| <i>CS</i>       | (Optional) cs                   |
| <i>EE</i>       | (Optional) ee                   |
| <i>3-SO</i>     | (Optional) 3so                  |
| <i>3SO_IC</i>   | (Optional) ic                   |
| <i>3SO_RC</i>   | (Optional) rc                   |

|               |                   |
|---------------|-------------------|
| <i>3SO_RS</i> | (Optional) rs     |
| <i>3SO_CS</i> | (Optional) cs     |
| <i>3SO_EE</i> | (Optional) ee     |
| <i>EECNT</i>  | (Optional) eecnt  |
| <i>TCCNT</i>  | (Optional) TCCNT  |
| <i>2CNT</i>   | (Optional) 2cnt   |
| <i>3CNT</i>   | (Optional) 3cnt   |
| <i>REFCNT</i> | (Optional) refcnt |

**Command Mode**

- /exec

## show fc2 plogi\_pwwn

```
show fc2 plogi_pwwn [ __readonly__ { TABLE_fc2plogi_pwwn <HIX> <ADDRESS> <VSAN> <S_ID>
<D_ID> <IFINDEX> <FL> <STATE> <PWWN> } ]
```

### Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| fc2                 | show fc2 tables and statistics  |
| plogi_pwwn          | show fc2 plogi pwwn entries     |
| __readonly__        | (Optional) Read only            |
| TABLE_fc2plogi_pwwn | (Optional) show fc2 plogi_pwwn  |
| <i>HIX</i>          | (Optional) hix                  |
| <i>ADDRESS</i>      | (Optional) address              |
| <i>VSAN</i>         | (Optional) vsan                 |
| <i>S_ID</i>         | (Optional) s_id                 |
| <i>D_ID</i>         | (Optional) d_id                 |
| <i>IFINDEX</i>      | (Optional) ifindex              |
| <i>FL</i>           | (Optional) fl                   |
| <i>STATE</i>        | (Optional) state                |
| <i>PWWN</i>         | (Optional) pwwn                 |

### Command Mode

- /exec

# show fc2 port brief

```
show fc2 port brief [ __readonly__ { TABLE_fc2portbrief <BAD_FRAME_RX> } [ TABLE_FCSTAT <IX>
<ST> <MOD> <EMUL> <TXPKTS> <TXDROP> <TXERR> <RXPKTS> <RXDROP> ] [ TABLE_LBSTAT
<IX> <ST> <MOD> <EMUL> <TXLBPCKTS> <TXLBDROP> <RXLBPCKTS> <RXLBDROP> ] [
TABLE_VFCSTAT <IX> <ST> <MOD> <EMUL> <TXPKTS> <TXDROP> <TXERR> <RXPKTS>
<RXDROP> ] [ TABLE_VFCPOSTAT <IX> <ST> <MOD> <EMUL> <TXPKTS> <TXDROP> <TXERR>
<RXPKTS> <RXDROP> ] [ TABLE_VFCSLOTSTAT <IX> <ST> <MOD> <EMUL> <TXPKTS>
<TXDROP> <TXERR> <RXPKTS> <RXDROP> ] ]
```

## Syntax Description

|                     |                                   |
|---------------------|-----------------------------------|
| show                | Show running system information   |
| fc2                 | show fc2 tables and statistics    |
| port                | show fc2 physical port table      |
| brief               | display only active port counters |
| __readonly__        | (Optional) Read only              |
| TABLE_fc2portbrief  | (Optional) bad frames received    |
| <i>BAD_FRAME_RX</i> | (Optional) fc2 bad frames rx      |
| TABLE_FCSTAT        | (Optional) FC Stat table          |
| <i>IX</i>           | (Optional) index                  |
| <i>ST</i>           | (Optional) status                 |
| <i>MOD</i>          | (Optional) mode                   |
| <i>EMUL</i>         | (Optional) TEemul                 |
| <i>TXPKTS</i>       | (Optional) txpackets              |
| <i>TXDROP</i>       | (Optional) txdrops                |
| <i>TXERR</i>        | (Optional) txerrorcnt             |
| <i>RXPKTS</i>       | (Optional) rx packets             |
| <i>RXDROP</i>       | (Optional) rx drop                |
| TABLE_LBSTAT        | (Optional) LB Stat table          |
| <i>IX</i>           | (Optional) index                  |
| <i>ST</i>           | (Optional) status                 |
| <i>MOD</i>          | (Optional) mode                   |
| <i>EMUL</i>         | (Optional) TEemul                 |

|                   |                                |
|-------------------|--------------------------------|
| <i>TXLBPKTS</i>   | (Optional) tx lb packets       |
| <i>TXLBDROP</i>   | (Optional) tx lb drops         |
| <i>RXLBPKTS</i>   | (Optional) rx lb packets       |
| <i>RXLBDROP</i>   | (Optional) rx lb drop          |
| TABLE_VFCSTAT     | (Optional) VFC Stat table      |
| <i>IX</i>         | (Optional) index               |
| <i>ST</i>         | (Optional) status              |
| <i>MOD</i>        | (Optional) mode                |
| <i>EMUL</i>       | (Optional) TEemul              |
| <i>TXPKTS</i>     | (Optional) txpackets           |
| <i>TXDROP</i>     | (Optional) txdrops             |
| <i>TXERR</i>      | (Optional) txerrornt           |
| <i>RXPKTS</i>     | (Optional) rx packets          |
| <i>RXDROP</i>     | (Optional) rx drop             |
| TABLE_VFCPOSTAT   | (Optional) VFC po Stat table   |
| <i>IX</i>         | (Optional) index               |
| <i>ST</i>         | (Optional) status              |
| <i>MOD</i>        | (Optional) mode                |
| <i>EMUL</i>       | (Optional) TEemul              |
| <i>TXPKTS</i>     | (Optional) txpackets           |
| <i>TXDROP</i>     | (Optional) txdrops             |
| <i>TXERR</i>      | (Optional) txerrornt           |
| <i>RXPKTS</i>     | (Optional) rx packets          |
| <i>RXDROP</i>     | (Optional) rx drop             |
| TABLE_VFCSLOTSTAT | (Optional) VFC slot Stat table |
| <i>IX</i>         | (Optional) index               |
| <i>ST</i>         | (Optional) status              |
| <i>MOD</i>        | (Optional) mode                |
| <i>EMUL</i>       | (Optional) TEemul              |

|               |                       |
|---------------|-----------------------|
| <i>TXPKTS</i> | (Optional) txpackets  |
| <i>TXDROP</i> | (Optional) txdrops    |
| <i>TXERR</i>  | (Optional) txerrorcnt |
| <i>RXPKTS</i> | (Optional) rx packets |
| <i>RXDROP</i> | (Optional) rx drop    |

**Command Mode**

- /exec

## show fc2 port drops

```
show fc2 port drops [ __readonly__ [ TABLE_FCSTAT <IX> <ST> <MOD> <EMUL> <TXPKTS>
<TXDROP> <TXERR> <RXPKTS> <RXDROP> ] [ TABLE_LBSTAT <IX> <ST> <MOD> <EMUL>
<TXLBPKTS> <TXLBDROP> <RXLBPKTS> <RXLBDROP> ] [ TABLE_VFCSTAT <IX> <ST> <MOD>
<EMUL> <TXPKTS> <TXDROP> <TXERR> <RXPKTS> <RXDROP> ] [ TABLE_VFCPOSTAT <IX>
<ST> <MOD> <EMUL> <TXPKTS> <TXDROP> <TXERR> <RXPKTS> <RXDROP> ] [
TABLE_VFCSLOTSTAT <IX> <ST> <MOD> <EMUL> <TXPKTS> <TXDROP> <TXERR> <RXPKTS>
<RXDROP> ] ]
```

### Syntax Description

|                 |                                   |
|-----------------|-----------------------------------|
| show            | Show running system information   |
| fc2             | show fc2 tables and statistics    |
| port            | show fc2 physical port table      |
| drops           | display active port drop counters |
| __readonly__    | (Optional) Read only              |
| TABLE_FCSTAT    | (Optional) FC Stat table          |
| <i>IX</i>       | (Optional) index                  |
| <i>ST</i>       | (Optional) status                 |
| <i>MOD</i>      | (Optional) mode                   |
| <i>EMUL</i>     | (Optional) TEemul                 |
| <i>TXPKTS</i>   | (Optional) txpackets              |
| <i>TXDROP</i>   | (Optional) txdrops                |
| <i>TXERR</i>    | (Optional) txerrorcnt             |
| <i>RXPKTS</i>   | (Optional) rx packets             |
| <i>RXDROP</i>   | (Optional) rx drop                |
| TABLE_LBSTAT    | (Optional) LB Stat table          |
| <i>IX</i>       | (Optional) index                  |
| <i>ST</i>       | (Optional) status                 |
| <i>MOD</i>      | (Optional) mode                   |
| <i>EMUL</i>     | (Optional) TEemul                 |
| <i>TXLBPKTS</i> | (Optional) tx lb packets          |
| <i>TXLBDROP</i> | (Optional) tx lb drops            |

|                   |                                |
|-------------------|--------------------------------|
| <i>RXLBPkTS</i>   | (Optional) rx lb packets       |
| <i>RXLBDROP</i>   | (Optional) rx lb drop          |
| TABLE_VFCSTAT     | (Optional) VFC Stat table      |
| <i>IX</i>         | (Optional) index               |
| <i>ST</i>         | (Optional) status              |
| <i>MOD</i>        | (Optional) mode                |
| <i>EMUL</i>       | (Optional) TEemul              |
| <i>TXPKTS</i>     | (Optional) txpackets           |
| <i>TXDROP</i>     | (Optional) txdrops             |
| <i>TXERR</i>      | (Optional) txerrorcnt          |
| <i>RXPkTS</i>     | (Optional) rx packets          |
| <i>RXDROP</i>     | (Optional) rx drop             |
| TABLE_VFCPOSTAT   | (Optional) VFC po Stat table   |
| <i>IX</i>         | (Optional) index               |
| <i>ST</i>         | (Optional) status              |
| <i>MOD</i>        | (Optional) mode                |
| <i>EMUL</i>       | (Optional) TEemul              |
| <i>TXPKTS</i>     | (Optional) txpackets           |
| <i>TXDROP</i>     | (Optional) txdrops             |
| <i>TXERR</i>      | (Optional) txerrorcnt          |
| <i>RXPkTS</i>     | (Optional) rx packets          |
| <i>RXDROP</i>     | (Optional) rx drop             |
| TABLE_VFCSLOTSTAT | (Optional) VFC slot Stat table |
| <i>IX</i>         | (Optional) index               |
| <i>ST</i>         | (Optional) status              |
| <i>MOD</i>        | (Optional) mode                |
| <i>EMUL</i>       | (Optional) TEemul              |
| <i>TXPKTS</i>     | (Optional) txpackets           |
| <i>TXDROP</i>     | (Optional) txdrops             |



|               |                       |
|---------------|-----------------------|
| <i>TXERR</i>  | (Optional) txerrorcnt |
| <i>RXPKTS</i> | (Optional) rx packets |
| <i>RXDROP</i> | (Optional) rx drop    |

**Command Mode**

- /exec

## show fc2 port state

```
show fc2 port state [ __readonly__ [ TABLE_FCPORTSTATE [ <PORT_STRING> ] [ <PORT_NO> ] [
<UP_DOWN_CNTR> ] [ [ <UP_STRING> ] + [ <UP_TIME> ] + [ <UP_REFTIME> ] + [ <DOWN_STRING>
] + [ <DOWN_TIME> ] + [ <DOWN_REFTIME> ] + ] ] ] [ TABLE_VFCPORTSTATE [ <PORT_STRING>
] [ <PORT_NO> ] [ <UP_DOWN_CNTR> ] [ [ <UP_STRING> ] + [ <UP_TIME> ] + [ <UP_REFTIME>
] + [ <DOWN_STRING> ] + [ <DOWN_TIME> ] + [ <DOWN_REFTIME> ] + ] ] ] [
TABLE_VFCPOPORTSTATE [ <PORT_STRING> ] [ <PORT_NO> ] [ <UP_DOWN_CNTR> ] [ [
<UP_STRING> ] + [ <UP_TIME> ] + [ <UP_REFTIME> ] + [ <DOWN_STRING> ] + [ <DOWN_TIME>
] + [ <DOWN_REFTIME> ] + ] ] ] [ TABLE_VFCPORTSLOTSTATE [ <PORT_STRING> ] [ <PORT_NO>
] [ <UP_DOWN_CNTR> ] [ [ <UP_STRING> ] + [ <UP_TIME> ] + [ <UP_REFTIME> ] + [
<DOWN_STRING> ] + [ <DOWN_TIME> ] + [ <DOWN_REFTIME> ] + ] ] ] ]
```

### Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information          |
| fc2                 | show fc2 tables and statistics           |
| port                | show fc2 physical port table             |
| state               | display port state history               |
| __readonly__        | (Optional) Read only                     |
| TABLE_FCPORTSTATE   | (Optional) fc port state change history  |
| <i>PORT_STRING</i>  | (Optional) port name                     |
| <i>PORT_NO</i>      | (Optional) port number                   |
| <i>UP_DOWN_CNTR</i> | (Optional) up-down counter               |
| <i>UP_STRING</i>    | (Optional) up                            |
| <i>UP_TIME</i>      | (Optional) up time                       |
| <i>UP_REFTIME</i>   | (Optional) up from                       |
| <i>DOWN_STRING</i>  | (Optional) down string                   |
| <i>DOWN_TIME</i>    | (Optional) down time                     |
| <i>DOWN_REFTIME</i> | (Optional) down from                     |
| TABLE_VFCPORTSTATE  | (Optional) vfc port state change history |
| <i>PORT_STRING</i>  | (Optional) port name                     |
| <i>PORT_NO</i>      | (Optional) port number                   |
| <i>UP_DOWN_CNTR</i> | (Optional) up-down counter               |
| <i>UP_STRING</i>    | (Optional) up                            |

|                        |   |
|------------------------|---|
| <i>UP_TIME</i>         | (Optional) up time                            |
| <i>UP_REFTIME</i>      | (Optional) up from                            |
| <i>DOWN_STRING</i>     | (Optional) down string                        |
| <i>DOWN_TIME</i>       | (Optional) down time                          |
| <i>DOWN_REFTIME</i>    | (Optional) down from                          |
| TABLE_VFCPOPORTSTATE   | (Optional) vfc po port state change history   |
| <i>PORT_STRING</i>     | (Optional) port name                          |
| <i>PORT_NO</i>         | (Optional) port number                        |
| <i>UP_DOWN_CNTR</i>    | (Optional) up-down counter                    |
| <i>UP_STRING</i>       | (Optional) up                                 |
| <i>UP_TIME</i>         | (Optional) up time                            |
| <i>UP_REFTIME</i>      | (Optional) up from                            |
| <i>DOWN_STRING</i>     | (Optional) down string                        |
| <i>DOWN_TIME</i>       | (Optional) down time                          |
| <i>DOWN_REFTIME</i>    | (Optional) down from                          |
| TABLE_VFCPORTSLOTSTATE | (Optional) vfc port slot state change history |
| <i>PORT_STRING</i>     | (Optional) port name                          |
| <i>PORT_NO</i>         | (Optional) port number                        |
| <i>UP_DOWN_CNTR</i>    | (Optional) up-down counter                    |
| <i>UP_STRING</i>       | (Optional) up                                 |
| <i>UP_TIME</i>         | (Optional) up time                            |
| <i>UP_REFTIME</i>      | (Optional) up from                            |
| <i>DOWN_STRING</i>     | (Optional) down string                        |
| <i>DOWN_TIME</i>       | (Optional) down time                          |
| <i>DOWN_REFTIME</i>    | (Optional) down from                          |

**Command Mode**

- /exec

# show fc2 socket

```
show fc2 socket [ __readonly__ { TABLE_fc2socket <SOCKET> <REFCNT> <PROTOCOL> <FLAGS>
<PID> <RCVBUF> <RMEM_USED> <QLEN> <NOTSK> } ]
```

## Syntax Description

|                  |                                 |
|------------------|---------------------------------|
| show             | Show running system information |
| fc2              | show fc2 tables and statistics  |
| socket           | show fc2 active sockets         |
| __readonly__     | (Optional) Read only            |
| TABLE_fc2socket  | (Optional) show fc2 socket      |
| <i>SOCKET</i>    | (Optional) socket               |
| <i>REFCNT</i>    | (Optional) refcnt               |
| <i>PROTOCOL</i>  | (Optional) protocol             |
| <i>FLAGS</i>     | (Optional) flags                |
| <i>PID</i>       | (Optional) pid                  |
| <i>RCVBUF</i>    | (Optional) rcvbuf               |
| <i>RMEM_USED</i> | (Optional) rmem_used            |
| <i>QLEN</i>      | (Optional) qlen                 |
| <i>NOTSK</i>     | (Optional) not_sk               |

## Command Mode

- /exec

## show fc2 sockexch

```
show fc2 sockexch [ __readonly__ { TABLE_fc2sockexch <SOCKET> <VSAN> <X_ID> <OX_ID>
<RX_ID> <O_ID> <R_ID> <ESTAT> <STATE> <CS> <TYPE> <SK> } ]
```

### Syntax Description

|                   |   |
|-------------------|---|
| show              | Show running system information           |
| fc2               | show fc2 tables and statistics            |
| sockexch          | show fc2 active exchanges for each socket |
| __readonly__      | (Optional) Read only                      |
| TABLE_fc2sockexch | (Optional) show fc2 sockexch              |
| SOCKET            | (Optional) socket                         |
| VSAN              | (Optional) vsan                           |
| X_ID              | (Optional) x_id                           |
| OX_ID             | (Optional) oxid                           |
| RX_ID             | (Optional) rxid                           |
| O_ID              | (Optional) o_id                           |
| R_ID              | (Optional) r_id                           |
| ESTAT             | (Optional) estat                          |
| STATE             | (Optional) state                          |
| CS                | (Optional) cs                             |
| TYPE              | (Optional) type                           |
| SK                | (Optional) sk                             |

### Command Mode

- /exec

## show fc2 socknotify

```
show fc2 socknotify [ __readonly__ { TABLE_fc2socknotify <SOCKET> <ADDRESS> <REF> <VSAN>
<D_ID> <MASK> <FL> <ST> <IFINDEX> } ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                               |
| fc2                 | show fc2 tables and statistics                                |
| socknotify          | show fc2 local nport plogi/logo notifications per each socket |
| __readonly__        | (Optional) Read only  |
| TABLE_fc2socknotify | (Optional) show fc2 socknotify                                |
| <i>SOCKET</i>       | (Optional) socket   |
| <i>ADDRESS</i>      | (Optional) address  |
| <i>REF</i>          | (Optional) ref  |
| <i>VSAN</i>         | (Optional) vsan   |
| <i>D_ID</i>         | (Optional) d_id   |
| <i>MASK</i>         | (Optional) mask   |
| <i>FL</i>           | (Optional) fl   |
| <i>ST</i>           | (Optional) st   |
| <i>IFINDEX</i>      | (Optional) ifindex  |

### Command Mode

- /exec

# show fc2 socknport

```
show fc2 socknport [ __readonly__ { TABLE_fc2socknport <SOCKET> <ADDRESS> <REF> <VSAN>
<D_ID> <MASK> <FL> <ST> <IFINDEX> } ]
```

## Syntax Description

|                    |                                       |
|--------------------|---------------------------------------|
| show               | Show running system information       |
| fc2                | show fc2 tables and statistics        |
| socknport          | show fc2 local nports per each socket |
| __readonly__       | (Optional) Read only                  |
| TABLE_fc2socknport | (Optional) show fc2 socknport         |
| <i>SOCKET</i>      | (Optional) socket                     |
| <i>ADDRESS</i>     | (Optional) address                    |
| <i>REF</i>         | (Optional) ref                        |
| <i>VSAN</i>        | (Optional) vsan                       |
| <i>D_ID</i>        | (Optional) d_id                       |
| <i>MASK</i>        | (Optional) mask                       |
| <i>FL</i>          | (Optional) fl                         |
| <i>ST</i>          | (Optional) st                         |
| <i>IFINDEX</i>     | (Optional) ifindex                    |

## Command Mode

- /exec

## show fc2 vsan

```
show fc2 vsan [ __readonly__ { TABLE_fc2vsan <VSAN> <X_ID> <E_D_TOV> <R_A_TOV> <WWN>
<IOP_MODE> } ]
```

### Syntax Description

|               |                                 |
|---------------|---------------------------------|
| show          | Show running system information |
| fc2           | show fc2 tables and statistics  |
| vsan          | show fc2 vsan table             |
| __readonly__  | (Optional) Read only            |
| TABLE_fc2vsan | (Optional) show fc2 vsan        |
| VSAN          | (Optional) vsan                 |
| X_ID          | (Optional) xid                  |
| E_D_TOV       | (Optional) e_d_tov              |
| R_A_TOV       | (Optional) r_a_tov              |
| WWN           | (Optional) wwn                  |
| IOP_MODE      | (Optional) iop_mode             |

### Command Mode

- /exec



# show fcdroplateny

```
show fcdroplateny [ { network | switch } ] [ __readonly__ [ <switch_latency> ] [ <global_network_latency> ] ] [ TABLE_vsan_network_latency { <vsan-no> <network-latency> } ] ]
```

## Syntax Description

|                               |   |
|-------------------------------|---|
| show                          | Show running system information                   |
| fcdroplateny                  | show switch or network latency                    |
| network                       | (Optional) network latency in milliseconds        |
| switch                        | (Optional) switch latency in milliseconds         |
| __readonly__                  | (Optional)  |
| <i>switch_latency</i>         | (Optional) Switch latency value                   |
| <i>global_network_latency</i> | (Optional) global network latency value           |
| TABLE_vsan_network_latency    | (Optional) VSAN specific network latency settings |
| <i>vsan-no</i>                | (Optional) vsan number                            |
| <i>network-latency</i>        | (Optional) VSAN specific network latency          |

## Command Mode

- /exec

## show fcoe-npv issu-impact

```
show fcoe-npv issu-impact [ __readonly__ { <is_impact> } [ TABLE_interface <vfc_intf> <fc_id> ] ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information   |
| fcoe-npv            | feature fcoe-npv  |
| issu-impact         | Show feature fcoe-npv config issues if attempting to do non-disruptive ISSU |
| <i>__readonly__</i> | (Optional) Read Only  |
| <i>is_impact</i>    | (Optional) show issu impact   |
| TABLE_interface     | (Optional) show fcoe database   |
| <i>vfc_intf</i>     | (Optional) vfc port Interface index   |
| <i>fc_id</i>        | (Optional) vfc port FCID  |

### Command Mode

- /exec

# show fcoe

```
show fcoe [ __readonly__ { TABLE_fcf <fcf_if_index> <fcf_mac> <fc_map> <fcf_priority>
<fka_Advertisement> } [ TABLE_vfc <vfc_name> <vfcf_mac> ] ]
```

## Syntax Description

|                          |                                      |
|--------------------------|--------------------------------------|
| show                     | Show running system information      |
| fcoe                     | Show FCOE paramaters                 |
| __readonly__             | (Optional) Read Only                 |
| TABLE_fcf                | (Optional) fcf table                 |
| <i>fcf_if_index</i>      | (Optional) fcf if index              |
| <i>fcf_mac</i>           | (Optional) fcf mac                   |
| <i>fc_map</i>            | (Optional) fc map                    |
| <i>fcf_priority</i>      | (Optional) fcf priority              |
| <i>fka_Advertisement</i> | (Optional) fka Advertisement         |
| TABLE_vfc                | (Optional) vfc details table for sup |
| <i>vfc_name</i>          | (Optional) vfc name                  |
| <i>vfcf_mac</i>          | (Optional) vfcf mac                  |

## Command Mode

- /exec

## show fcoe database

```
show fcoe database [ __readonly__ { TABLE_interface <interface> [ <fcid> ] [ <port_name> ] <mac_address>
} <flogi_count> [ TABLE_veport <interface> <mac_address> <vsan> ] ]
```

### Syntax Description

|                     |                                    |
|---------------------|------------------------------------|
| show                | Show running system information    |
| fcoe                | Show FCOE paramaters               |
| database            | Show FCOE database                 |
| <i>__readonly__</i> | (Optional) Read Only               |
| <i>interface</i>    | (Optional) Interface index         |
| TABLE_interface     | (Optional) show fcoe database      |
| <i>fcid</i>         | (Optional) fcid                    |
| <i>port_name</i>    | (Optional) port name               |
| <i>mac_address</i>  | (Optional) mac address             |
| <i>interface</i>    | (Optional) ve port Interface index |
| TABLE_veport        | (Optional) ve port details         |
| <i>mac_address</i>  | (Optional) ve port mac address     |
| <i>flogi_count</i>  | (Optional) flogi_count             |
| <i>vsan</i>         | (Optional) ve port VSAN trunking   |

### Command Mode

- /exec

# show fctimer

```
show fctimer [ __readonly__ { <F_S_TOV> <D_S_TOV> <E_D_TOV> <R_A_TOV> } ]
```

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show running system information |
| fctimer        | show Fibre Channel timers       |
| __readonly__   | (Optional) Read only            |
| <i>F_S_TOV</i> | (Optional) F_S_TOV              |
| <i>D_S_TOV</i> | (Optional) D_S_TOV              |
| <i>E_D_TOV</i> | (Optional) E_D_TOV              |
| <i>R_A_TOV</i> | (Optional) R_A_TOV              |

## Command Mode

- /exec

## show fctimer D\_S\_TOV

```
show fctimer D_S_TOV [ vsan <i0> ] [ __readonly__ [ TABLE_D_S_TOV [ <vsan-no> ] <D_S_TOV> ] [ <non-exist-vsan> ] ]
```

### Syntax Description

|                              |                                 |
|------------------------------|---------------------------------|
| show                         | Show running system information |
| fctimer                      | show Fibre Channel timers       |
| D_S_TOV                      | D_S_TOV in milliseconds         |
| vsan                         | (Optional) Specify VSAN id      |
| <i>i0</i>                    | (Optional) VSAN id range        |
| __readonly__                 | (Optional)                      |
| TABLE_D_S_TOV                | (Optional) table D_S_TOV        |
| <i>vsan-no</i>               | (Optional) vsan number          |
| <i>D_S_TOV</i>               | (Optional) D_S_TOV              |
| <i>non-exist-<i>vsan</i></i> | (Optional) non configured vsans |

### Command Mode

- /exec

## show fctimer E\_D\_TOV

```
show fctimer E_D_TOV [ vsan <i0> ] [ __readonly__ [ TABLE_E_D_TOV [ <vsan-no> ] <E_D_TOV> ] [ <non-exist-nsan> ] ]
```

### Syntax Description

|                       |                                 |
|-----------------------|---------------------------------|
| show                  | Show running system information |
| fctimer               | show Fibre Channel timers       |
| E_D_TOV               | E_D_TOV in milliseconds         |
| vsan                  | (Optional) Specify VSAN id      |
| <i>i0</i>             | (Optional) VSAN id range        |
| <i>__readonly__</i>   | (Optional)                      |
| TABLE_E_D_TOV         | (Optional) table                |
| <i>vsan-no</i>        | (Optional) vsan number          |
| <i>E_D_TOV</i>        | (Optional) E_D_TOV              |
| <i>non-exist-nsan</i> | (Optional) not exist vsans      |

### Command Mode

- /exec

## show fctimer F\_S\_TOV

```
show fctimer F_S_TOV [ vsan <i0> ] [ __readonly__ [ TABLE_F_S_TOV [ <vsan-no> ] <F_S_TOV> ] [
<non-exist-vsan> ] ]
```

### Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| fctimer        | show Fibre Channel timers       |
| F_S_TOV        | F_S_TOV in milliseconds         |
| vsan           | (Optional) Specify VSAN id      |
| i0             | (Optional) VSAN id range        |
| __readonly__   | (Optional)                      |
| TABLE_F_S_TOV  | (Optional) table                |
| vsan-no        | (Optional) vsan number          |
| F_S_TOV        | (Optional) F_S_TOV              |
| non-exist-vsan | (Optional) not exist vsans      |

### Command Mode

- /exec



## show fctimer R\_A\_TOV

```
show fctimer R_A_TOV [ vsan <i0> ] [ __readonly__ [ TABLE_R_A_TOV [ <vsan-no> ] <R_A_TOV> ] [ <non-exist-nsan> ] ]
```

### Syntax Description

|                       |                                 |
|-----------------------|---------------------------------|
| show                  | Show running system information |
| fctimer               | show Fibre Channel timers       |
| R_A_TOV               | R_A_TOV in milliseconds         |
| vsan                  | (Optional) Specify VSAN id      |
| <i>i0</i>             | (Optional) VSAN id range        |
| <i>__readonly__</i>   | (Optional)                      |
| TABLE_R_A_TOV         | (Optional) table                |
| <i>vsan-no</i>        | (Optional) vsan number          |
| <i>R_A_TOV</i>        | (Optional) R_A_TOV              |
| <i>non-exist-nsan</i> | (Optional) non exist vsans      |

### Command Mode

- /exec

## show fctimer last action status

```
show fctimer last action status [ __readonly__ [ <vsan> ] <last_action_timestamp> <last_action>
<last_action_result> <last_action_failure_reason> ]
```

### Syntax Description

|                                   |  |
|-----------------------------------|--|
| show                              | Show running system information                        |
| fctimer                           | show Fibre Channel timers                              |
| last                              | Show the status of the last cfs commit/abort operation |
| action                            | Show the status of the last cfs commit/abort operation |
| status                            | Show the status of the last cfs commit/abort operation |
| <i>__readonly__</i>               | (Optional) Readonly                                    |
| <i>vsan</i>                       | (Optional) Vsan  |
| <i>last_action_timestamp</i>      | (Optional) Last action timestamp                       |
| <i>last_action</i>                | (Optional) Last action                                 |
| <i>last_action_result</i>         | (Optional) Last action result                          |
| <i>last_action_failure_reason</i> | (Optional) Last action failure reason                  |

### Command Mode

- /exec

# show fctimer pending-diff

```
show fctimer pending-diff [ __readonly__ <status_fctimer> ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information  |
| fctimer               | show Fibre Channel timers  |
| pending-diff          | Show the difference between pending database and running config            |
| __readonly__          | (Optional)   |
| <i>status_fctimer</i> | (Optional) Show the difference between pending database and running config |

## Command Mode

- /exec

# show fctimer pending

show fctimer pending [ \_\_readonly\_\_ <status\_fctimer> ]

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                        |
| fctimer               | show Fibre Channel timers                              |
| pending               | Show the status of pending fctimer commands            |
| __readonly__          | (Optional)   |
| <i>status_fctimer</i> | (Optional) Show the status of pending fctimer commands |

## Command Mode

- /exec

## show fctimer session status

```
show fctimer session status [ __readonly__ [ <vsan> ] <last_action_timestamp> <last_action>
<last_action_result> <last_action_failure_reason> ]
```

### Syntax Description

|                                   |  |
|-----------------------------------|--|
| show                              | Show running system information                        |
| fctimer                           | show Fibre Channel timers                              |
| session                           | Show the state of fctimer cfs session                  |
| status                            | Show the status of the last cfs commit/abort operation |
| <i>__readonly__</i>               | (Optional) Readonly                                    |
| <i>vsan</i>                       | (Optional) Vsan  |
| <i>last_action_timestamp</i>      | (Optional) Last action timestamp                       |
| <i>last_action</i>                | (Optional) Last action                                 |
| <i>last_action_result</i>         | (Optional) Last action result                          |
| <i>last_action_failure_reason</i> | (Optional) Last action failure reason                  |

### Command Mode

- /exec

# show fctimer status

show fctimer status [ \_\_readonly\_\_ <Distribution> ]

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information         |
| fctimer             | show Fibre Channel timers               |
| status              | cfs distribution is enabled or disabled |
| __readonly__        | (Optional) read only                    |
| <i>Distribution</i> | (Optional) distribution                 |

## Command Mode

- /exec

## show fctimer vsan

```
show fctimer vsan <i0> [ __readonly__ { TABLE_fctimer <vsan-no> <F_S_TOV> <D_S_TOV> <E_D_TOV>
<R_A_TOV> } [ <non-exist-nsan> ] ]
```

### Syntax Description

|                       |                                 |
|-----------------------|---------------------------------|
| show                  | Show running system information |
| fctimer               | show Fibre Channel timers       |
| vsan                  | Specify VSAN id                 |
| <i>i0</i>             | VSAN id range                   |
| <i>__readonly__</i>   | (Optional) Read only            |
| <i>TABLE_fctimer</i>  | (Optional) table                |
| <i>vsan-no</i>        | (Optional) vsan number          |
| <i>F_S_TOV</i>        | (Optional) F_S_TOV              |
| <i>D_S_TOV</i>        | (Optional) D_S_TOV              |
| <i>E_D_TOV</i>        | (Optional) E_D_TOV              |
| <i>R_A_TOV</i>        | (Optional) R_A_TOV              |
| <i>non-exist-nsan</i> | (Optional) non exist vsans      |

### Command Mode

- /exec

## show feature-set

```
show feature-set [ <name> ] [ <id> ] [ __readonly__ TABLE_cfcFeatureSetTable <cfcFeatureSetIndex>
<cfcFeatureSetName> <cfcFeatureSetAction> <cfcFeatureSetLastAction> <cfcFeatureSetLastActionResult>
<cfcFeatureSetLastFailureReason> <cfcFeatureSetOpStatus> <cfcFeatureSetOpStatusReason> ]
```

### Syntax Description

|                                       |                                    |
|---------------------------------------|------------------------------------|
| show                                  | Show running system information    |
| feature-set                           | Show feature set status            |
| <i>name</i>                           | (Optional) feature-set name        |
| <i>id</i>                             | (Optional) feature-set id          |
| <i>__readonly__</i>                   | (Optional)                         |
| <i>TABLE_cfcFeatureSetTable</i>       | (Optional) feature-set table       |
| <i>cfcFeatureSetIndex</i>             | (Optional) feature-set table index |
| <i>cfcFeatureSetName</i>              | (Optional) feature-set name        |
| <i>cfcFeatureSetAction</i>            | (Optional) action                  |
| <i>cfcFeatureSetLastAction</i>        | (Optional) last action             |
| <i>cfcFeatureSetLastActionResult</i>  | (Optional) last action result      |
| <i>cfcFeatureSetLastFailureReason</i> | (Optional) last failure reason     |
| <i>cfcFeatureSetOpStatus</i>          | (Optional) operation status        |
| <i>cfcFeatureSetOpStatusReason</i>    | (Optional) operation status        |

### Command Mode

- /exec



# show feature-set services

```
show feature-set services <s0> [ __readonly__ [ { TABLE_services <service_name> } ] { <count>
<feature_set> } ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                  |
| feature-set         | Show feature set status                          |
| services            | Show services in feature set                     |
| __readonly__        | (Optional)                                       |
| TABLE_services      | (Optional) all service names in feature set      |
| <i>service_name</i> | (Optional) name of the service                   |
| <i>count</i>        | (Optional) number of services in the feature set |
| <i>feature_set</i>  | (Optional) feature set name                      |
| <i>s0</i>           | Name of feature set                              |

## Command Mode

- /exec

## show feature

```
show feature [ __readonly__ [ { TABLE_cfcFeatureCtrlTable <cfcFeatureCtrlIndex2>
<cfcFeatureCtrlInstanceNum2> <cfcFeatureCtrlName2> <cfcFeatureCtrlAction2> <cfcFeatureCtrlLastAction2>
<cfcFeatureCtrlLastActionResult2> <cfcFeatureCtrlLastFailureReason2> <cfcFeatureCtrlOpStatus2>
<cfcFeatureCtrlOpStatusReason2> <cfcFeatureCtrlTag2> } ] ]
```

### Syntax Description

|   |  |
|---|--|
| show                                    | Show running system information  |
| feature                                 | Show feature status  |
| __readonly__                            | (Optional)   |
| TABLE_cfcFeatureCtrlTable               | (Optional) feature table   |
| <i>cfcFeatureCtrlIndex2</i>             | (Optional) feature table index   |
| <i>cfcFeatureCtrlInstanceNum2</i>       | (Optional) instance number   |
| <i>cfcFeatureCtrlName2</i>              | (Optional) feature name  |
| <i>cfcFeatureCtrlAction2</i>            | (Optional) Action to be triggered for the feature                                |
| <i>cfcFeatureCtrlLastAction2</i>        | (Optional) Last action triggered for the feature                                 |
| <i>cfcFeatureCtrlLastActionResult2</i>  | (Optional) The result of execution of the last action                            |
| <i>cfcFeatureCtrlLastFailureReason2</i> | (Optional) Failure Reason  |
| <i>cfcFeatureCtrlOpStatus2</i>          | (Optional) operation status  |
| <i>cfcFeatureCtrlOpStatusReason2</i>    | (Optional) Reason for current operation status                                   |
| <i>cfcFeatureCtrlTag2</i>               | (Optional) Name of the instance in string format in case of multinstance feature |

### Command Mode

- /exec

# show fhrp

```
show fhrp [ <intf> ] [ __readonly__ { TABLE_brief <intf_name> <intf_state> <ipv4_state> <ipv6_state>
<hardware_status> <refcount> } ]
```

## Syntax Description

|                        |  |
|------------------------|--|
| fhrp                   | FHRP Show commands                               |
| show                   | Show running system information                  |
| <i>intf</i>            | (Optional) Specify a single interface            |
| <i>__readonly__</i>    | (Optional)                                       |
| <i>TABLE_brief</i>     | (Optional) Show brief FHRP interface information |
| <i>intf_name</i>       | (Optional) Interface name                        |
| <i>intf_state</i>      | (Optional) Interface state                       |
| <i>ipv4_state</i>      | (Optional) Interface IPv4 state                  |
| <i>ipv6_state</i>      | (Optional) Interface IPv6 state                  |
| <i>hardware_status</i> | (Optional) Interface hardware status             |
| <i>refcount</i>        | (Optional) Interface refcount                    |

## Command Mode

- /exec

## show fhrp verbose

```
show fhrp [ <intf> ] verbose [ __readonly__ { TABLE_det <intf_name> <handle> <refcount> { TABLE_clients
<client_id> <client_name> } <running> <expired> <v_retries> <v_time> <r_delay> <min_delay>
<remaining_delay> <i_state> <ipv4_state> <ipv6_state> <h_state> <int_l2> } ]
```

### Syntax Description

|                        |  |
|------------------------|--|
| fhrp                   | FHRP Show commands                             |
| show                   | Show running system information                |
| <i>intf</i>            | (Optional) Specify a single interface          |
| verbose                | Display detailed information                   |
| <i>__readonly__</i>    | (Optional)                                     |
| <i>TABLE_det</i>       | (Optional) Detailed FHRP interface information |
| <i>intf_name</i>       | (Optional) Interface name                      |
| <i>handle</i>          | (Optional) Interface handle                    |
| <i>refcount</i>        | (Optional) Reference count                     |
| <i>TABLE_clients</i>   | (Optional) FHRP clients present on interface   |
| <i>client_id</i>       | (Optional) FHRP client id                      |
| <i>client_name</i>     | (Optional) FHRP client name                    |
| <i>running</i>         | (Optional) Time verify up timer running        |
| <i>expired</i>         | (Optional) Verify up timer has expired         |
| <i>v_retries</i>       | (Optional) Verify retries                      |
| <i>v_time</i>          | (Optional) Verify remaining time               |
| <i>r_delay</i>         | (Optional) Reload delay                        |
| <i>min_delay</i>       | (Optional) Min delay                           |
| <i>remaining_delay</i> | (Optional) Remaining delay                     |
| <i>i_state</i>         | (Optional) Interface state                     |
| <i>ipv4_state</i>      | (Optional) Interface IPv4 state                |
| <i>ipv6_state</i>      | (Optional) Interface IPv6 state                |
| <i>h_state</i>         | (Optional) Interface hardware state            |
| <i>int_l2</i>          | (Optional) Interface is L2-only                |

### Command Mode

- /exec

## show file

```
show file <uri0> [ cksum | md5sum | sha256sum | sha512sum ] [ __readonly__ { [ <file_content> ] + [ <file_content_cksum> ] [ <file_content_md5sum> ] [ <file_content_sha256sum> ] [ <file_content_sha512sum> ] } ]
```

### Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information                |
| file                          | Displays content of files                      |
| <i>uri0</i>                   | Filename to be displayed                       |
| cksum                         | (Optional) Displays CRC checksum for a file    |
| md5sum                        | (Optional) Displays MD5 checksum for a file    |
| sha256sum                     | (Optional) Displays SHA256 checksum for a file |
| sha512sum                     | (Optional) Displays SHA512 checksum for a file |
| <i>__readonly__</i>           | (Optional) Read only                           |
| <i>file_content</i>           | (Optional) uri file content buffer string      |
| <i>file_content_cksum</i>     | (Optional) uri file content checksum           |
| <i>file_content_md5sum</i>    | (Optional) uri file content md5sum             |
| <i>file_content_sha256sum</i> | (Optional) uri file content sha256sum          |
| <i>file_content_sha512sum</i> | (Optional) uri file content sha512sum          |

### Command Mode

- /exec

## show fips status

```
show fips status [ __readonly__ { operation_status <o_status> } { mode_state <m_state> } [ TABLE_sessions
<lc_num> <lc_status> ] ]
```

### Syntax Description

|                  |  |
|------------------|--|
| show             | Show running system information            |
| fips             | Show if FIPS mode is enabled or disabled   |
| status           | Whether FIPS mode is enabled or disabled   |
| __readonly__     | (Optional)                                 |
| operation_status | (Optional) run-time information about fips |
| <i>o_status</i>  | (Optional) operational status of fips      |
| mode_state       | (Optional) mode state                      |
| <i>m_state</i>   | (Optional) fips or non-fips state          |
| TABLE_sessions   | (Optional) all lc status                   |
| <i>lc_num</i>    | (Optional) the lc number                   |
| <i>lc_status</i> | (Optional) the lc status                   |

### Command Mode

- /exec

## show flow cache

```
show flow cache [ ipv4 | ipv6 | ce ] [ __readonly__ ] [ { TABLE_flow_cache <flow-cache-index> [ <flow-type> ] [ <source-ip> ] [ <destination-ip> ] [ <source-mac> ] [ <destination-mac> ] [ <bridge-domain-id> ] [ <ether-type> ] [ <source-port> ] [ <destination-port> ] [ <protocol> ] [ <ipv6-flowlabel> ] [ <byte-count> ] [ <packet-count> ] [ <tcp-flags> ] [ <tos> ] [ <if-id> ] [ <output-if-id> ] [ <flow-start> ] [ <flow-end> ] } ] ]
```

### Syntax Description

|                         |                                     |
|-------------------------|-------------------------------------|
| show                    | Show running system information     |
| flow                    | Show NetFlow information            |
| cache                   | Show NetFlow Exporter Cache         |
| ipv4                    | (Optional) Show ipv4 cache entries  |
| ipv6                    | (Optional) Show ipv6 cache entries  |
| ce                      | (Optional) Show ce cache entries    |
| __readonly__            | (Optional)                          |
| TABLE_flow_cache        | (Optional) The XML flow cache table |
| <i>flow-cache-index</i> | (Optional) Flow Index               |
| <i>flow-type</i>        | (Optional) Flow type - v4,v6 or MAC |
| <i>source-ip</i>        | (Optional) Source IP                |
| <i>destination-ip</i>   | (Optional) Destination IP           |
| <i>source-mac</i>       | (Optional) Source MAC               |
| <i>destination-mac</i>  | (Optional) Destination MAC          |
| <i>bridge-domain-id</i> | (Optional) Bridge Domain ID         |
| <i>ether-type</i>       | (Optional) Ether Type               |
| <i>source-port</i>      | (Optional) Source Port              |
| <i>destination-port</i> | (Optional) Destination Port         |
| <i>protocol</i>         | (Optional) Protocol                 |
| <i>ipv6-flowlabel</i>   | (Optional) Ipv6 flowlabel           |
| <i>byte-count</i>       | (Optional) Byte Count               |
| <i>packet-count</i>     | (Optional) Packet Count             |
| <i>tcp-flags</i>        | (Optional) TCP Flags                |



|                     |                            |
|---------------------|----------------------------|
| <i>tos</i>          | (Optional) TOS             |
| <i>if-id</i>        | (Optional) IF ID           |
| <i>output-if-id</i> | (Optional) OUTPUT IF ID    |
| <i>flow-start</i>   | (Optional) Flow Start Time |
| <i>flow-end</i>     | (Optional) Flow End Time   |

**Command Mode**

- /exec

## show flow cache

```
show flow cache [ ipv4 | ipv6 | ce ] [ __readonly__ TABLE_flow_cache <flow-type> <source-ip>
<destination-ip> <bridge-domain-id> <source-port> <destination-port> <protocol> <ipv6-flowlabel>
<byte-count> <packet-count> <tcp-flags> <tos> <if-id> <flow-start> <flow-end> <source-mac>
<destination-mac> <ether-type> ]
```

### Syntax Description

|                         |                                     |
|-------------------------|-------------------------------------|
| show                    | Show running system information     |
| flow                    | Show NetFlow information            |
| cache                   | Show NetFlow Exporter Cache         |
| ipv4                    | (Optional) Show ipv4 cache entries  |
| ipv6                    | (Optional) Show ipv6 cache entries  |
| ce                      | (Optional) Show ce cache entries    |
| __readonly__            | (Optional)                          |
| TABLE_flow_cache        | (Optional) The XML flow cache table |
| <i>flow-type</i>        | (Optional) Flow type - v4,v6 or MAC |
| <i>source-ip</i>        | (Optional) Source IP                |
| <i>destination-ip</i>   | (Optional) Destination IP           |
| <i>bridge-domain-id</i> | (Optional) Bridge Domain ID         |
| <i>source-port</i>      | (Optional) Source Port              |
| <i>destination-port</i> | (Optional) Destination Port         |
| <i>protocol</i>         | (Optional) Protocol                 |
| <i>ipv6-flowlabel</i>   | (Optional) Ipv6 flowlabel           |
| <i>byte-count</i>       | (Optional) Byte Count               |
| <i>packet-count</i>     | (Optional) Packet Count             |
| <i>tcp-flags</i>        | (Optional) TCP Flags                |
| <i>tos</i>              | (Optional) TOS                      |
| <i>if-id</i>            | (Optional) IF ID                    |
| <i>flow-start</i>       | (Optional) Flow Start Time          |
| <i>flow-end</i>         | (Optional) Flow End Time            |

|                        |                            |
|------------------------|----------------------------|
| <i>source-mac</i>      | (Optional) Source MAC      |
| <i>destination-mac</i> | (Optional) Destination MAC |
| <i>ether-type</i>      | (Optional) Ether Type      |

**Command Mode**

- /exec

## show flow exporter

```
show flow exporter [ name ] [ <exporter> ] [ __readonly__ { TABLE_flow_exporter <exporter> <description>
<dest> <vrf> <vrf_id> <vrf_resolved> <dest_udp> <source_intf> <source_ip> <dscp> <exp_vers> <seqnum>
<samp_table_to> <if_table_to> <stats_to> <temp_to> <rec_sent> <temp_sent> <pkts_sent> <bytes_sent>
<dest_unreach> <buff_events> <pkts_drop_no_route> <pkts_drop_other> <pkts_drop_lc_rp>
<pkts_drop_op_drops> <time_last_cleared> } ]
```

### Syntax Description

|                      |  |
|----------------------|--|
| show                 | Show running system information                    |
| flow                 | Show NetFlow information                           |
| exporter             | Show NetFlow Exporter Configuration and Statistics |
| name                 | (Optional) Show a specific Flow Exporter           |
| <i>exporter</i>      | (Optional) Specify an exporter                     |
| <i>__readonly__</i>  | (Optional)   |
| TABLE_flow_exporter  | (Optional)   |
| <i>exporter</i>      | (Optional)   |
| <i>description</i>   | (Optional)   |
| <i>dest</i>          | (Optional)   |
| <i>vrf</i>           | (Optional)   |
| <i>vrf_id</i>        | (Optional)   |
| <i>vrf_resolved</i>  | (Optional)   |
| <i>dest_udp</i>      | (Optional)   |
| <i>source_intf</i>   | (Optional)   |
| <i>source_ip</i>     | (Optional)   |
| <i>dscp</i>          | (Optional)   |
| <i>seqnum</i>        | (Optional)   |
| <i>exp_vers</i>      | (Optional)   |
| <i>samp_table_to</i> | (Optional)   |
| <i>if_table_to</i>   | (Optional)   |
| <i>stats_to</i>      | (Optional)   |
| <i>temp_to</i>       | (Optional)   |

|                           |            |
|---------------------------|------------|
| <i>rec_sent</i>           | (Optional) |
| <i>temp_sent</i>          | (Optional) |
| <i>pkts_sent</i>          | (Optional) |
| <i>bytes_sent</i>         | (Optional) |
| <i>dest_unreach</i>       | (Optional) |
| <i>buff_events</i>        | (Optional) |
| <i>pkts_drop_no_route</i> | (Optional) |
| <i>pkts_drop_other</i>    | (Optional) |
| <i>pkts_drop_lc_rp</i>    | (Optional) |
| <i>pkts_drop_op_drops</i> | (Optional) |
| <i>time_last_cleared</i>  | (Optional) |

**Command Mode**

- /exec

## show flow exporter

```
show flow exporter [ name ] [ <exporter> ] [ __readonly__ { TABLE_flow_exporter <exporter> <description>
<dest> <vrf> <vrf_id> <vrf_resolved> <dest_udp> <source_intf> <source_ip> <dscp> <exp_vers> <seqnum>
<samp_table_to> <if_table_to> <stats_to> <temp_to> <rec_sent> <temp_sent> <pkts_sent> <bytes_sent>
<dest_unreach> <buff_events> <pkts_drop_no_route> <pkts_drop_other> <pkts_drop_lc_rp>
<pkts_drop_op_drops> <time_last_cleared> } ]
```

### Syntax Description

|                      |  |
|----------------------|--|
| show                 | Show running system information                    |
| flow                 | Show NetFlow information                           |
| exporter             | Show NetFlow Exporter Configuration and Statistics |
| name                 | (Optional) Show a specific Flow Exporter           |
| <i>exporter</i>      | (Optional) Specify an exporter                     |
| <i>__readonly__</i>  | (Optional)   |
| TABLE_flow_exporter  | (Optional)   |
| <i>exporter</i>      | (Optional)   |
| <i>description</i>   | (Optional)   |
| <i>dest</i>          | (Optional)   |
| <i>vrf</i>           | (Optional)   |
| <i>vrf_id</i>        | (Optional)   |
| <i>vrf_resolved</i>  | (Optional)   |
| <i>dest_udp</i>      | (Optional)   |
| <i>source_intf</i>   | (Optional)   |
| <i>source_ip</i>     | (Optional)   |
| <i>dscp</i>          | (Optional)   |
| <i>seqnum</i>        | (Optional)   |
| <i>exp_vers</i>      | (Optional)   |
| <i>samp_table_to</i> | (Optional)   |
| <i>if_table_to</i>   | (Optional)   |
| <i>stats_to</i>      | (Optional)   |
| <i>temp_to</i>       | (Optional)   |

|                           |            |
|---------------------------|------------|
| <i>rec_sent</i>           | (Optional) |
| <i>temp_sent</i>          | (Optional) |
| <i>pkts_sent</i>          | (Optional) |
| <i>bytes_sent</i>         | (Optional) |
| <i>dest_unreach</i>       | (Optional) |
| <i>buff_events</i>        | (Optional) |
| <i>pkts_drop_no_route</i> | (Optional) |
| <i>pkts_drop_other</i>    | (Optional) |
| <i>pkts_drop_lc_rp</i>    | (Optional) |
| <i>pkts_drop_op_drops</i> | (Optional) |
| <i>time_last_cleared</i>  | (Optional) |

**Command Mode**

- /exec

# show flow filter

```
show flow filter [ __readonly__ [ { TABLE_flow_filter <name> <ipv4acl> <ipv6acl> } ] ]
```

## Syntax Description

|                   |                                 |
|-------------------|---------------------------------|
| show              | Show running system information |
| flow              | Show Analytics information      |
| filter            | Show filter Configuration       |
| __readonly__      | (Optional)                      |
| TABLE_flow_filter | (Optional) flow filter data     |
| <i>name</i>       | (Optional) Filter Name          |
| <i>ipv4acl</i>    | (Optional) IPv4 ACL             |
| <i>ipv6acl</i>    | (Optional) IPv4 ACL             |

## Command Mode

- /exec



# show flow interface

```
show flow { interface [ <intf> ] | vlan [ <vlan> ] } [ __readonly__ [ { TABLE_flow_interface [ <intf_name> ] [ <vlan_id> ] [ <v4in_mon_name> ] [ <v4in_direction> ] [ <v4in_profile_id> ] [ <v6in_mon_name> ] [ <v6in_direction> ] [ <v6in_profile_id> ] [ <l2in_mon_name> ] [ <l2in_direction> ] [ <l2in_profile_id> ] } ] ]
```

## Syntax Description

|                        |                                    |
|------------------------|------------------------------------|
| show                   | Show running system information    |
| flow                   | Show NetFlow information           |
| interface              | Flow interface information         |
| <i>intf</i>            | (Optional) Interface               |
| vlan                   | Flow vlan information              |
| <i>vlan</i>            | (Optional) Vlan number             |
| <i>__readonly__</i>    | (Optional)                         |
| TABLE_flow_interface   | (Optional) flow interface data     |
| <i>intf_name</i>       | (Optional) Interface               |
| <i>vlan_id</i>         | (Optional) VLAN ID                 |
| <i>v4in_mon_name</i>   | (Optional) IPv4 Input monitor name |
| <i>v4in_direction</i>  | (Optional) IPv4 Input direction    |
| <i>v4in_profile_id</i> | (Optional) IPv4 Input profile id   |
| <i>v6in_mon_name</i>   | (Optional) IPv6 Input monitor name |
| <i>v6in_direction</i>  | (Optional) IPv6 Input direction    |
| <i>v6in_profile_id</i> | (Optional) IPv6 Input profile id   |
| <i>l2in_mon_name</i>   | (Optional) l2 Input monitor name   |
| <i>l2in_direction</i>  | (Optional) l2 Input direction      |
| <i>l2in_profile_id</i> | (Optional) l2 Input profile id     |

## Command Mode

- /exec

# show flow monitor

```
show flow monitor [ name ] [ <monitor> [ cache [ detailed ] ] ] [ __readonly__ [ { TABLE_flow_monitor
<monitor> <use_count> [ <description> ] <record> <exporter1> <exporter2> <bucket_id> <src_addr>
<dest_addr> <direction> <pkt_count> <byte_count> } ] ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information           |
| flow                | Show NetFlow information                  |
| monitor             | Show Monitor Configuration                |
| name                | (Optional) Show a specific Flow Monitor   |
| <i>monitor</i>      | (Optional) Specify a monitor              |
| cache               | (Optional) Flow monitor cache contents    |
| detailed            | (Optional) Show the entire cache contents |
| <i>__readonly__</i> | (Optional)                                |
| TABLE_flow_monitor  | (Optional)                                |
| <i>monitor</i>      | (Optional)                                |
| <i>use_count</i>    | (Optional)                                |
| <i>description</i>  | (Optional)                                |
| <i>record</i>       | (Optional)                                |
| <i>exporter1</i>    | (Optional)                                |
| <i>exporter2</i>    | (Optional)                                |
| <i>bucket_id</i>    | (Optional)                                |
| <i>src_addr</i>     | (Optional)                                |
| <i>dest_addr</i>    | (Optional)                                |
| <i>direction</i>    | (Optional)                                |
| <i>pkt_count</i>    | (Optional)                                |
| <i>byte_count</i>   | (Optional)                                |

## Command Mode

- /exec

# show flow monitor

```
show flow monitor [ name ] [ <monitor> [ cache [ detailed ] ] ] [ __readonly__ [ { TABLE_flow_monitor
<monitor> <use_count> [ <description> ] <record> <exporter1> <exporter2> <bucket_id> <src_addr>
<dest_addr> <direction> <pkt_count> <byte_count> } ] ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information           |
| flow                | Show NetFlow information                  |
| monitor             | Show Monitor Configuration                |
| name                | (Optional) Show a specific Flow Monitor   |
| <i>monitor</i>      | (Optional) Specify a monitor              |
| cache               | (Optional) Flow monitor cache contents    |
| detailed            | (Optional) Show the entire cache contents |
| <i>__readonly__</i> | (Optional)                                |
| TABLE_flow_monitor  | (Optional)                                |
| <i>monitor</i>      | (Optional)                                |
| <i>use_count</i>    | (Optional)                                |
| <i>description</i>  | (Optional)                                |
| <i>record</i>       | (Optional)                                |
| <i>exporter1</i>    | (Optional)                                |
| <i>exporter2</i>    | (Optional)                                |
| <i>bucket_id</i>    | (Optional)                                |
| <i>src_addr</i>     | (Optional)                                |
| <i>dest_addr</i>    | (Optional)                                |
| <i>direction</i>    | (Optional)                                |
| <i>pkt_count</i>    | (Optional)                                |
| <i>byte_count</i>   | (Optional)                                |

## Command Mode

- /exec

## show flow profile

```
show flow profile [ __readonly__ [ { TABLE_flow_profile <name> [ <desc> ] <number-of-users>
<export-intvl> <source-port> <packet-id-shift> <burst-intvl-shift> <mtu> [ <guess-threshold-lo> ] [
<guess-threshold-hi> ] [ { TABLE_payload_bin <payload-bin-num> <payload-bin-lo> <payload-bin-hi> }
] [ { TABLE_tcpopthdr_bin <tcpopthdr-bin-num> <tcpopthdr-bin-lo> <tcpopthdr-bin-hi> } ] [ {
TABLE_rcvwinsize_bin <rcvwinsize-bin-num> <rcvwinsize-bin-lo> <rcvwinsize-bin-hi> } } ] ] ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information               |
| flow                      | Show Analytics information                    |
| profile                   | Show profile Configuration                    |
| <i>__readonly__</i>       | (Optional)                                    |
| TABLE_flow_profile        | (Optional) HW flow profile                    |
| <i>name</i>               | (Optional) HW profile name                    |
| <i>desc</i>               | (Optional) Description of HW profile          |
| <i>number-of-users</i>    | (Optional) No. of users                       |
| <i>export-intvl</i>       | (Optional) Export Interval                    |
| <i>source-port</i>        | (Optional) Source Port                        |
| <i>packet-id-shift</i>    | (Optional) IP Packet ID Shift                 |
| <i>burst-intvl-shift</i>  | (Optional) Burst Interval Shift               |
| <i>mtu</i>                | (Optional) MTU                                |
| <i>guess-threshold-lo</i> | (Optional) Sequence Number Guess Threshold Lo |
| <i>guess-threshold-hi</i> | (Optional) Sequence Number Guess Threshold Hi |
| TABLE_payload_bin         | (Optional) Payload Bin                        |
| <i>payload-bin-num</i>    | (Optional) Bin Number                         |
| <i>payload-bin-lo</i>     | (Optional) Bin Lo                             |
| <i>payload-bin-hi</i>     | (Optional) Bin Hi                             |
| TABLE_tcpopthdr_bin       | (Optional) TCP Opt Hdr Bin                    |
| <i>tcpopthdr-bin-num</i>  | (Optional) Bin Number                         |
| <i>tcpopthdr-bin-lo</i>   | (Optional) Bin Lo                             |
| <i>tcpopthdr-bin-hi</i>   | (Optional) Bin Hi                             |

|                           |                                     |
|---------------------------|-------------------------------------|
| TABLE_rcvwinsize_bin      | (Optional) Receive Windows Size Bin |
| <i>rcvwinsize-bin-num</i> | (Optional) Bin Number               |
| <i>rcvwinsize-bin-lo</i>  | (Optional) Bin Lo                   |
| <i>rcvwinsize-bin-hi</i>  | (Optional) Bin Hi                   |

**Command Mode**

- /exec

## show flow record

```
show flow record [ name ] [ { <record> } | { netflow-original } | { netflow { protocol-port | layer2-switched
{ input } | { ipv4 | ipv6 | l2 } { original-input } } } ] [ __readonly__ [ { TABLE_flow_record <record> [
<description> ] <use_count> <template> [ <match_ip_src> ] [ <match_ip_dst> ] [ <match_proto> ] [
<match_tos> ] [ <match_l4_src> ] [ <match_l4_dst> ] [ <match_ingress> ] [ <match_egress> ] [
<match_src_as_peer> ] [ <match_dst_as_peer> ] [ <match_ipv6_src> ] [ <match_ipv6_dst> ] [
<match_ipv6_flow> ] [ <match_ipv6_option> ] [ <match_ipv6_traffic> ] [ <match_l2_src> ] [ <match_l2_dst>
] [ <match_l2_src_vlan> ] [ <match_l2_dst_vlan> ] [ <match_l2_lq> ] [ <match_l2_cos> ] [ <match_l2_etype>
] [ <match_flow_dir_match> ] [ <match_ipv4v6_src> ] [ <match_ipv4v6_dst> ] [ <collect_src_as> ] [
<collect_dst_as> ] [ <collect_src_as_peer> ] [ <collect_dst_as_peer> ] [ <collect_fwd_status> ] [
<collect_ipv4_next_hop> ] [ <collect_ipv4_bgp_next> ] [ <collect_ipv6_next_hop> ] [
<collect_ipv6_bgp_next> ] [ <collect_tcp_flags> ] [ <collect_flow_dir> ] [ <collect_bytes> ] [
<collect_bytes_long> ] [ <collect_packets> ] [ <collect_packets_long> ] [ <collect_time_first> ] [
<collect_time_last> ] [ <collect_ingress_coll> ] [ <collect_egress_coll> ] [ <collect_sampler_id> ] [
<collect_ip_ver> ] [ <collect_packet_disp> ] } ] ]
```

### Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information                              |
| flow               | Show NetFlow information                                     |
| record             | Show Record Configuration                                    |
| name               | (Optional) Show the configuration for a specific Flow Record |
| <i>record</i>      | (Optional) Specify a record                                  |
| netflow-original   | (Optional) Traditional IPv4 input NetFlow with origin ASs    |
| netflow            | (Optional) Traditional NetFlow collection schemes            |
| ipv4               | (Optional) IPv4 collection schemes                           |
| ipv6               | (Optional) IPv6 collection schemes                           |
| l2                 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                    |
| layer2-switched    | (Optional) Layer2-Switched collection schemes                |
| original-input     | (Optional) Input NetFlow                                     |
| input              | (Optional) Input NetFlow                                     |
| protocol-port      | (Optional) Protocol and Ports aggregation scheme             |
| __readonly__       | (Optional)   |
| TABLE_flow_record  | (Optional) flow record data                                  |
| <i>record</i>      | (Optional)   |
| <i>description</i> | (Optional)   |

|                             |            |
|-----------------------------|------------|
| <i>use_count</i>            | (Optional) |
| <i>template</i>             | (Optional) |
| <i>match_ip_src</i>         | (Optional) |
| <i>match_ip_dst</i>         | (Optional) |
| <i>match_proto</i>          | (Optional) |
| <i>match_tos</i>            | (Optional) |
| <i>match_l4_src</i>         | (Optional) |
| <i>match_l4_dst</i>         | (Optional) |
| <i>match_ingress</i>        | (Optional) |
| <i>match_egress</i>         | (Optional) |
| <i>match_src_as_peer</i>    | (Optional) |
| <i>match_dst_as_peer</i>    | (Optional) |
| <i>match_ipv6_src</i>       | (Optional) |
| <i>match_ipv6_dst</i>       | (Optional) |
| <i>match_ipv6_flow</i>      | (Optional) |
| <i>match_ipv6_option</i>    | (Optional) |
| <i>match_ipv6_traffic</i>   | (Optional) |
| <i>match_l2_src</i>         | (Optional) |
| <i>match_l2_dst</i>         | (Optional) |
| <i>match_l2_src_vlan</i>    | (Optional) |
| <i>match_l2_dst_vlan</i>    | (Optional) |
| <i>match_l2_lq</i>          | (Optional) |
| <i>match_l2_cos</i>         | (Optional) |
| <i>match_l2_etype</i>       | (Optional) |
| <i>match_flow_dir_match</i> | (Optional) |
| <i>match_ipv4v6_src</i>     | (Optional) |
| <i>match_ipv4v6_dst</i>     | (Optional) |
| <i>collect_src_as</i>       | (Optional) |
| <i>collect_dst_as</i>       | (Optional) |

|                              |            |
|------------------------------|------------|
| <i>collect_src_as_peer</i>   | (Optional) |
| <i>collect_dst_as_peer</i>   | (Optional) |
| <i>collect_fwd_status</i>    | (Optional) |
| <i>collect_ipv4_next_hop</i> | (Optional) |
| <i>collect_ipv4_bgp_next</i> | (Optional) |
| <i>collect_ipv6_next_hop</i> | (Optional) |
| <i>collect_ipv6_bgp_next</i> | (Optional) |
| <i>collect_tcp_flags</i>     | (Optional) |
| <i>collect_flow_dir</i>      | (Optional) |
| <i>collect_bytes</i>         | (Optional) |
| <i>collect_bytes_long</i>    | (Optional) |
| <i>collect_packets</i>       | (Optional) |
| <i>collect_packets_long</i>  | (Optional) |
| <i>collect_time_first</i>    | (Optional) |
| <i>collect_time_last</i>     | (Optional) |
| <i>collect_ingress_coll</i>  | (Optional) |
| <i>collect_egress_coll</i>   | (Optional) |
| <i>collect_sampler_id</i>    | (Optional) |
| <i>collect_ip_ver</i>        | (Optional) |
| <i>collect_packet_disp</i>   | (Optional) |

**Command Mode**

- /exec



# show flow record

```
show flow record [ name ] [ { <record> } | { netflow-original } | { netflow { protocol-port | layer2-switched
{ input } | { ipv4 | ipv6 | l2 } { original-input } } } ] [ __readonly__ [ { TABLE_flow_record <record> [
<description> ] <use_count> <template> [ <match_ip_src> ] [ <match_ip_dst> ] [ <match_proto> ] [
<match_tos> ] [ <match_l4_src> ] [ <match_l4_dst> ] [ <match_ingress> ] [ <match_egress> ] [
<match_src_as_peer> ] [ <match_dst_as_peer> ] [ <match_ipv6_src> ] [ <match_ipv6_dst> ] [
<match_ipv6_flow> ] [ <match_ipv6_option> ] [ <match_ipv6_traffic> ] [ <match_l2_src> ] [ <match_l2_dst>
] [ <match_l2_src_vlan> ] [ <match_l2_dst_vlan> ] [ <match_l2_lq> ] [ <match_l2_cos> ] [ <match_l2_etype>
] [ <match_flow_dir_match> ] [ <match_ipv4v6_src> ] [ <match_ipv4v6_dst> ] [ <collect_src_as> ] [
<collect_dst_as> ] [ <collect_src_as_peer> ] [ <collect_dst_as_peer> ] [ <collect_fwd_status> ] [
<collect_ipv4_next_hop> ] [ <collect_ipv4_bgp_next> ] [ <collect_ipv6_next_hop> ] [
<collect_ipv6_bgp_next> ] [ <collect_tcp_flags> ] [ <collect_flow_dir> ] [ <collect_bytes> ] [
<collect_bytes_long> ] [ <collect_packets> ] [ <collect_packets_long> ] [ <collect_time_first> ] [
<collect_time_last> ] [ <collect_ingress_coll> ] [ <collect_egress_coll> ] [ <collect_sampler_id> ] [
<collect_ip_ver> ] [ <collect_packet_disp> ] } ] ] ]
```

## Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information                              |
| flow               | Show NetFlow information                                     |
| record             | Show Record Configuration                                    |
| name               | (Optional) Show the configuration for a specific Flow Record |
| <i>record</i>      | (Optional) Specify a record                                  |
| netflow-original   | (Optional) Traditional IPv4 input NetFlow with origin ASs    |
| netflow            | (Optional) Traditional NetFlow collection schemes            |
| ipv4               | (Optional) IPv4 collection schemes                           |
| ipv6               | (Optional) IPv6 collection schemes                           |
| l2                 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                    |
| layer2-switched    | (Optional) Layer2-Switched collection schemes                |
| original-input     | (Optional) Input NetFlow                                     |
| input              | (Optional) Input NetFlow                                     |
| protocol-port      | (Optional) Protocol and Ports aggregation scheme             |
| __readonly__       | (Optional)   |
| TABLE_flow_record  | (Optional) flow record data                                  |
| <i>record</i>      | (Optional)   |
| <i>description</i> | (Optional)   |

|                             |            |
|-----------------------------|------------|
| <i>use_count</i>            | (Optional) |
| <i>template</i>             | (Optional) |
| <i>match_ip_src</i>         | (Optional) |
| <i>match_ip_dst</i>         | (Optional) |
| <i>match_proto</i>          | (Optional) |
| <i>match_tos</i>            | (Optional) |
| <i>match_l4_src</i>         | (Optional) |
| <i>match_l4_dst</i>         | (Optional) |
| <i>match_ingress</i>        | (Optional) |
| <i>match_egress</i>         | (Optional) |
| <i>match_src_as_peer</i>    | (Optional) |
| <i>match_dst_as_peer</i>    | (Optional) |
| <i>match_ipv6_src</i>       | (Optional) |
| <i>match_ipv6_dst</i>       | (Optional) |
| <i>match_ipv6_flow</i>      | (Optional) |
| <i>match_ipv6_option</i>    | (Optional) |
| <i>match_ipv6_traffic</i>   | (Optional) |
| <i>match_l2_src</i>         | (Optional) |
| <i>match_l2_dst</i>         | (Optional) |
| <i>match_l2_src_vlan</i>    | (Optional) |
| <i>match_l2_dst_vlan</i>    | (Optional) |
| <i>match_l2_lq</i>          | (Optional) |
| <i>match_l2_cos</i>         | (Optional) |
| <i>match_l2_etype</i>       | (Optional) |
| <i>match_flow_dir_match</i> | (Optional) |
| <i>match_ipv4v6_src</i>     | (Optional) |
| <i>match_ipv4v6_dst</i>     | (Optional) |
| <i>collect_src_as</i>       | (Optional) |
| <i>collect_dst_as</i>       | (Optional) |

|                              |            |
|------------------------------|------------|
| <i>collect_src_as_peer</i>   | (Optional) |
| <i>collect_dst_as_peer</i>   | (Optional) |
| <i>collect_fwd_status</i>    | (Optional) |
| <i>collect_ipv4_next_hop</i> | (Optional) |
| <i>collect_ipv4_bgp_next</i> | (Optional) |
| <i>collect_ipv6_next_hop</i> | (Optional) |
| <i>collect_ipv6_bgp_next</i> | (Optional) |
| <i>collect_tcp_flags</i>     | (Optional) |
| <i>collect_flow_dir</i>      | (Optional) |
| <i>collect_bytes</i>         | (Optional) |
| <i>collect_bytes_long</i>    | (Optional) |
| <i>collect_packets</i>       | (Optional) |
| <i>collect_packets_long</i>  | (Optional) |
| <i>collect_time_first</i>    | (Optional) |
| <i>collect_time_last</i>     | (Optional) |
| <i>collect_ingress_coll</i>  | (Optional) |
| <i>collect_egress_coll</i>   | (Optional) |
| <i>collect_sampler_id</i>    | (Optional) |
| <i>collect_ip_ver</i>        | (Optional) |
| <i>collect_packet_disp</i>   | (Optional) |

### Command Mode

- /exec

## show flow rtp

```
show flow rtp { errors { active | history } | details } [ ipv4 | ipv6 ] [ __readonly__ [ <flow-timeout> ] [ {
TABLE_flow_rtp <flow-rtp-index> [ <flow-type> ] [ <source-ip> ] [ <destination-ip> ] [ <bridge-domain-id>
] [ <source-port> ] [ <destination-port> ] [ <protocol> ] [ <packet-count> ] [ <bytes-per-sec> ] [ <start-time>
] [ <if-name> ] [ { TABLE_flow_rtp_errors <loss-start> [ <loss-end> ] [ <packet-loss> } ] } ] }
```

### Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information          |
| flow                    | Show NetFlow information                 |
| rtp                     | Real-time Transport Protocol             |
| errors                  | Show NetFlow RTP flows error information |
| active                  | Show RTP flows with active losses        |
| history                 | Show RTP flows with loss history         |
| details                 | Show NetFlow RTP detailed information    |
| ipv4                    | (Optional) Show ipv4 RTP entries         |
| ipv6                    | (Optional) Show ipv6 RTP entries         |
| __readonly__            | (Optional)                               |
| TABLE_flow_rtp          | (Optional) The XML flow rtp table        |
| <i>flow-timeout</i>     | (Optional) Flow Timeout                  |
| <i>flow-rtp-index</i>   | (Optional) Flow RTP Index                |
| <i>flow-type</i>        | (Optional) Flow type - v4,v6             |
| <i>source-ip</i>        | (Optional) Source IP                     |
| <i>destination-ip</i>   | (Optional) Destination IP                |
| <i>bridge-domain-id</i> | (Optional) Bridge Domain ID              |
| <i>source-port</i>      | (Optional) Source Port                   |
| <i>destination-port</i> | (Optional) Destination Port              |
| <i>protocol</i>         | (Optional) Protocol                      |
| <i>packet-count</i>     | (Optional) Packet Count                  |
| <i>bytes-per-sec</i>    | (Optional) Bytes Per Second              |
| <i>start-time</i>       | (Optional) Flow Start Time               |

|                       |  |
|-----------------------|--|
| <i>if-name</i>        | (Optional) IF/Vlan                       |
| TABLE_flow_rtp_errors | (Optional) The XML flow rtp errors table |
| <i>loss-start</i>     | (Optional) Loss Start Time               |
| <i>loss-end</i>       | (Optional) Loss End Time                 |
| <i>packet-loss</i>    | (Optional) Packet loss                   |

**Command Mode**

- /exec

# show flow rtp timeout

show flow rtp timeout [ \_\_readonly\_\_ { <flush\_cache\_to> } ]

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                       |
| flow                  | Show NetFlow information                              |
| rtp                   | Real-time Transport Protocol                          |
| timeout               | Show NetFlow RTP flow error monitoring timeout values |
| __readonly__          | (Optional)  |
| <i>flush_cache_to</i> | (Optional)  |

## Command Mode

- /exec

# show flow system

```
show flow system [ __readonly__ <system_exporter_id> [ { TABLE_flow_interface [ <intf_name> ] [
<exporter_id> ] [ <profile_name> ] [ <v4in_mon_name> ] [ <v4in_direction> ] [ <v6in_mon_name> ] [
<v6in_direction> ] [ <filter_name> ] [ <ipv4_hit> ] [ <ipv4_create> ] [ <ipv6_hit> ] [ <ipv6_create> ] [
<ce_hit> ] [ <ce_create> ] [ <packets_seen> ] [ <skip_collect> ] [ <export_count> ] } ] ]
```

## Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information                                 |
| flow                      | Show Analytics information                                      |
| system                    | Show system Configuration                                       |
| <i>__readonly__</i>       | (Optional)  |
| <i>system_exporter_id</i> | (Optional) System Exporter ID                                   |
| TABLE_flow_interface      | (Optional) flow interface data                                  |
| <i>intf_name</i>          | (Optional) Interface  |
| <i>exporter_id</i>        | (Optional) Exporter ID  |
| <i>profile_name</i>       | (Optional) HW Profile Name                                      |
| <i>v4in_mon_name</i>      | (Optional) IPv4 Input monitor name                              |
| <i>v4in_direction</i>     | (Optional) IPv4 Input direction                                 |
| <i>v6in_mon_name</i>      | (Optional) IPv6 Input monitor name                              |
| <i>v6in_direction</i>     | (Optional) IPv6 Input direction                                 |
| <i>filter_name</i>        | (Optional) User Filter Name                                     |
| <i>ipv4_hit</i>           | (Optional) Number of packets that hit an Ipv4 hash entry        |
| <i>ipv4_create</i>        | (Optional) Number of packets that created a new Ipv4 hash entry |
| <i>ipv6_hit</i>           | (Optional) Number of packets that hit an Ipv6 hash entry        |
| <i>ipv6_create</i>        | (Optional) Number of packets that created a new Ipv6 hash entry |
| <i>ce_hit</i>             | (Optional) Number of packets that hit an ce hash entry          |
| <i>ce_create</i>          | (Optional) Number of packets that created a new ce hash entry   |
| <i>packets_seen</i>       | (Optional) Number of packets seen                               |
| <i>skip_collect</i>       | (Optional) Number of packets that skipped the analytics collect |
| <i>export_count</i>       | (Optional) Number of Analytics packets exported                 |

**Command Mode**

- /exec



# show flow timeout

```
show flow timeout [ __readonly__ [ <active_to> ] [ <inactive_to> ] [ <fast_to> ] [ <th_pkts> ] [ <agg_age_to> ] [ <flush_cache_to> ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information        |
| flow                  | Show NetFlow information               |
| timeout               | Show NetFlow flow cache timeout values |
| <i>__readonly__</i>   | (Optional)                             |
| <i>active_to</i>      | (Optional)                             |
| <i>inactive_to</i>    | (Optional)                             |
| <i>fast_to</i>        | (Optional)                             |
| <i>th_pkts</i>        | (Optional)                             |
| <i>agg_age_to</i>     | (Optional)                             |
| <i>flush_cache_to</i> | (Optional)                             |

## Command Mode

- /exec

## show flow tracer

```
show flow tracer [ __readonly__ [ { TABLE_flow_tracer <flow-tracer-index> [ <source-ip> ] [ <destination-ip>
] [ <bridge-domain-id> ] [ <source-port> ] [ <destination-port> ] [ <protocol> ] [ <packet-count> ] [ <if-name>
] [ <fwd-drop> ] [ <rpf-fail> ] [ <policing-drop> ] [ <ids-drop> ] [ <policy-drop> ] [ <buffer-drop> ] } ] ]
```

### Syntax Description

|                          |                                  |
|--------------------------|----------------------------------|
| show                     | Show running system information  |
| flow                     | Show NetFlow information         |
| tracer                   | Show packet tracer information   |
| __readonly__             | (Optional)                       |
| TABLE_flow_tracer        | (Optional)                       |
| <i>flow-tracer-index</i> | (Optional) Flow Index            |
| <i>source-ip</i>         | (Optional) Source IP             |
| <i>destination-ip</i>    | (Optional) Destination IP        |
| <i>bridge-domain-id</i>  | (Optional) Bridge Domain ID      |
| <i>source-port</i>       | (Optional) Source Port           |
| <i>destination-port</i>  | (Optional) Destination Port      |
| <i>protocol</i>          | (Optional) Protocol              |
| <i>packet-count</i>      | (Optional) Packet Count          |
| <i>if-name</i>           | (Optional) Ingress Interface     |
| <i>fwd-drop</i>          | (Optional) Forwarding Drops      |
| <i>rpf-fail</i>          | (Optional) RPF Port Sec Failures |
| <i>policing-drop</i>     | (Optional) Policing Drops        |
| <i>ids-drop</i>          | (Optional) Ids Drops             |
| <i>policy-drop</i>       | (Optional) ACL Drops             |
| <i>buffer-drop</i>       | (Optional) Buffer Drops          |

### Command Mode

- /exec

# show forwarding

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ table <table_id> ] [ ipv4 ] [ route |
mhdb ] [ recursive ] [ summary ] [ [ detail | platform | partial | ipsg ] [ max-display-count <display_count> ]
] | [ <prefix> [ longer-prefixes ] [ detail | platform ] ] <address> [ detail | platform ] |
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  |  |
| forwarding            | display fib information                                |
| vrf                   | (Optional) display info per VRF                        |
| <i>vrf-name</i>       | (Optional) VRF name                                    |
| <i>vrf-known-name</i> | (Optional) Known VRF name                              |
| vrf-all               | (Optional) Display information for all VRFs            |
| table                 | (Optional) display info per vpn-id                     |
| <i>table_id</i>       | (Optional) table id in hex                             |
| ipv4                  | (Optional) ipv4  |
| route                 | (Optional) display IP routing table                    |
| ipsg                  | (Optional) display IPv4 IPSG routes                    |
| mhdb                  | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED              |
| recursive             | (Optional) display routes with recursive next hops     |
| partial               | (Optional) display routes with partial ECMPs           |
| summary               | (Optional) display route counts                        |
| <i>prefix</i>         | (Optional) display single exact match route            |
| longer-prefixes       | (Optional) display longer prefixes                     |
| <i>address</i>        | (Optional) display single longest match route          |
| detail                | (Optional) show detailed information about the routes  |
| platform              | (Optional) one command to show pi and pd info together |
| max-display-count     | (Optional) displays max # of routes                    |
| <i>display_count</i>  | (Optional) count                                       |

## Command Mode

- /exec

## show forwarding adjacency

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ipv4 ] adjacency [ mpls ] [ lisp ] [ nve ] [ <aif> ] [ <anh> ] [ detail | stats | platform ] [ module <module> ] [ __readonly__ [ <adj-count> ] ] [ TABLE_adj { [ <fec> ] [ <nexthop> ] [ <intf> ] [ <rewinfo> ] [ <interface> ] [ <bgp_rnh> ] [ <bgp_orig_as> ] [ <bgp_peer_as> ] [ <pkts> ] [ <bytes> ] [ <exp> ] [ <src_addr> ] [ <dest_addr> ] [ <lisp_flags> ] [ <lisp_inst_id> ] [ <pltfm_key> ] [ <hh> ] [ <refcount> ] } ] [ TABLE_ip_adjacency { [ <nh> ] [ <rwinfo> ] [ <intf> ] [ <intf_idx> ] [ <hhandle> ] [ <refcnt> ] [ <flags> ] [ <holder> ] [ <pbr_cnt> ] [ <wccp_cnt> ] [ <rewrite-p> ] [ TABLE_index { [ <hw_adj> ] [ <cmn-idx> ] [ <lif> ] [ <buf-idx> ] } } } ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  |  |
| forwarding            | display fib information                                |
| ipv4                  | (Optional) ipv4  |
| adjacency             | display adjacency information                          |
| platform              | (Optional) one command to show pi and pd info together |
| vrf                   | (Optional) display info per VRF                        |
| <i>vrf-name</i>       | (Optional) VRF name                                    |
| <i>vrf-known-name</i> | (Optional) Known VRF name                              |
| vrf-all               | (Optional) Display information for all VRFs            |
| mpls                  | (Optional) mpls adjacency information                  |
| lisp                  | (Optional) LISP adjacency information                  |
| nve                   | (Optional) VxLAN tunnel adjacency information          |
| <i>aif</i>            | (Optional) adjacency output interface                  |
| <i>anh</i>            | (Optional) adjacency next hop                          |
| detail                | (Optional) detail                                      |
| stats                 | (Optional) adjacency statistics                        |
| module                | (Optional) slot  |
| <i>module</i>         | (Optional) slot number                                 |
| __readonly__          | (Optional)   |
| <i>adj-count</i>      | (Optional) total adj count                             |
| TABLE_adj             | (Optional) Table Adjacency                             |
| <i>fec</i>            | (Optional) FEC info                                    |

|                     |                                |
|---------------------|--------------------------------|
| <i>nexthop</i>      | (Optional) next hop address    |
| <i>intf</i>         | (Optional) output interface    |
| <i>rewinfo</i>      | (Optional) rewrite information |
| <i>interface</i>    | (Optional) output interface    |
| <i>bgp_rnh</i>      | (Optional) next hop address    |
| <i>bgp_orig_as</i>  | (Optional) bgp orig as         |
| <i>bgp_peer_as</i>  | (Optional) bgp peer as         |
| <i>exp</i>          | (Optional) exp mapping         |
| <i>pkts</i>         | (Optional) packet stats        |
| <i>bytes</i>        | (Optional) bytes stats         |
| <i>src_addr</i>     | (Optional) src address         |
| <i>dest_addr</i>    | (Optional) dest address        |
| <i>lisp_flags</i>   | (Optional) lisp flags          |
| <i>lisp_inst_id</i> | (Optional) lisp instance id    |
| <i>pltfm_key</i>    | (Optional) platform key        |
| <i>hh</i>           | (Optional) Hardware Handle     |
| <i>refcount</i>     | (Optional) reference count     |
| TABLE_ip_adjacency  | (Optional) Table ip adjacency  |
| <i>nh</i>           | (Optional) next hop address    |
| <i>rwinfo</i>       | (Optional) rewrite information |
| <i>intf</i>         | (Optional) output interface    |
| <i>intf_idx</i>     | (Optional) Interface index     |
| <i>hhandle</i>      | (Optional) Hw Handle           |
| <i>refcnt</i>       | (Optional) reference count     |
| <i>flags</i>        | (Optional) Adjacency flags     |
| <i>holder</i>       | (Optional) Holder bitmap       |
| <i>pbr_cnt</i>      | (Optional) PBR count           |
| <i>wccp_cnt</i>     | (Optional) WCCP count          |
| <i>rewrite-p</i>    | (Optional) Rewrite pointer     |

|                |                            |
|----------------|----------------------------|
| TABLE_index    | (Optional) HW index table  |
| <i>hw_adj</i>  | (Optional) v4 adj hw index |
| <i>cmn-idx</i> | (Optional) CMN Index       |
| <i>lif</i>     | (Optional) LIF             |
| <i>buf-idx</i> | (Optional) Buffer index    |

**Command Mode**

- /exec

# show forwarding distribution clients

show forwarding distribution clients [ \_\_readonly\_\_ <id><pid><name><shms><shme><shmn> ]

## Syntax Description

|              |                                |
|--------------|--------------------------------|
| show         |                                |
| forwarding   | Display Forwarding Information |
| distribution | fib distribution info          |
| clients      | unicast client information     |
| __readonly__ | (Optional)                     |

## Command Mode

- /exec

# show forwarding distribution fib-state

```
show forwarding distribution fib-state [ __readonly__ <slot> <state><ttc><tprc><tv4ac><tv6ac> {
TABLE_fib_state <tid><tafi><prc><pc><tname> } ]
```

## Syntax Description

|                 |                                |
|-----------------|--------------------------------|
| show            |                                |
| forwarding      | Display Forwarding Information |
| distribution    | fib distribution info          |
| fib-state       | unicast fib state info         |
| __readonly__    | (Optional)                     |
| <i>slot</i>     | (Optional) slot number         |
| TABLE_fib_state | (Optional) fib-state table     |

## Command Mode

- /exec



# show forwarding distribution ip igmp snooping

```
show forwarding distribution ip igmp snooping [ vlan <vlan-id> [ group [ <grpaddr> | <mac-grpaddr> ] [
source <srcaddr> ] ] ] [ detail ] [ __readonly__ <refcount> <oiflist_id> <last_oiflist_id> <ftag-id> ]
```

## Syntax Description

|                        |                                       |
|------------------------|---------------------------------------|
| show                   |                                       |
| forwarding             | Display Forwarding Information        |
| distribution           | FIB distribution information          |
| ip                     | IPV4 information                      |
| igmp                   | MFDM IGMP information                 |
| snooping               | L2 mcast snooping related information |
| vlan                   | (Optional) Info specific to a vlan    |
| <i>vlan-id</i>         | (Optional) Vlan id value              |
| group                  | (Optional) Group specific information |
| <i>grpaddr</i>         | (Optional) Group address              |
| <i>mac-grpaddr</i>     | (Optional) Group MAC address          |
| source                 | (Optional) (G,S) specific information |
| <i>srcaddr</i>         | (Optional) Source address             |
| detail                 | (Optional) Detailed display           |
| <i>__readonly__</i>    | (Optional)                            |
| <i>refcount</i>        | (Optional) Reference Count            |
| <i>oiflist_id</i>      | (Optional) OIF list Identifier        |
| <i>last_oiflist_id</i> | (Optional) Last OIF list Identifier   |
| <i>ftag-id</i>         | (Optional) ftag Id                    |

## Command Mode

- /exec

## show forwarding distribution ipv6 multicast route

```
show forwarding distribution ipv6 multicast route [ table <table_id> | vrf <vrf-name> ] [ [ group { <group>
} ] [ source { <source> } ] | summary ] [ __readonly__ TABLE_vrf [ <vrf-name> ] [ <table-name> ] [ <table-id>
] [ <total-num-groups> ] [ TABLE_route_summary [ <vrf-name> ] [ <total-num-routes> ] [ <num-star-g-route>
] [ <num-sg-route> ] [ <num-star-g-prfx> ] [ <num-group-count> ] ] [ TABLE_one_route [ <source-addr>
] [ <source-len> ] [ <group-addr> ] [ <group-len> ] [ <df-ordinal> ] [ <rpf-intf> ] [ <flags> ] [ <stats-pkts>
] [ <stats-bytes> ] [ <oif-count> ] [ <oiflist-index> ] [ TABLE_oif [ <oif-name> ] [ <mti-src-intf> ] [
<mti-grp-ip> ] [ <mti-src-ip> ] ] ] ] ]
```

### Syntax Description

|                         |  |
|-------------------------|--|
| show                    |  |
| forwarding              | Display Forwarding Information               |
| distribution            | display fib distribution information         |
| ipv6                    | IPV6 related information                     |
| multicast               | display IPv6 multicast information           |
| route                   | display routing table                        |
| vrf                     | (Optional) display routes for a specific VRF |
| <i>vrf-name</i>         | (Optional) VRF name                          |
| table                   | (Optional) table                             |
| <i>table_id</i>         | (Optional) table number                      |
| group                   | (Optional) Multicast IPv6 Group Address      |
| source                  | (Optional) Multicast IPv6 Source Address     |
| summary                 | (Optional) display route counts              |
| __readonly__            | (Optional)                                   |
| TABLE_vrf               | (Optional)                                   |
| <i>vrf-name</i>         | (Optional)                                   |
| <i>table-name</i>       | (Optional)                                   |
| <i>table-id</i>         | (Optional)                                   |
| <i>total-num-groups</i> | (Optional)                                   |
| TABLE_route_summary     | (Optional)                                   |
| <i>total-num-routes</i> | (Optional)                                   |
| <i>num-star-g-route</i> | (Optional)                                   |

|                        |            |
|------------------------|------------|
| <i>num-sg-route</i>    | (Optional) |
| <i>num-star-g-prfx</i> | (Optional) |
| <i>num-group-count</i> | (Optional) |
| TABLE_one_route        | (Optional) |
| <i>source-addr</i>     | (Optional) |
| <i>source-len</i>      | (Optional) |
| <i>group-addr</i>      | (Optional) |
| <i>group-len</i>       | (Optional) |
| <i>df-ordinal</i>      | (Optional) |
| <i>rpf-intf</i>        | (Optional) |
| <i>flags</i>           | (Optional) |
| <i>stats-pkts</i>      | (Optional) |
| <i>stats-bytes</i>     | (Optional) |
| <i>oif-count</i>       | (Optional) |
| <i>oiflist-index</i>   | (Optional) |
| TABLE_oif              | (Optional) |
| <i>oif-name</i>        | (Optional) |
| <i>mti-src-intf</i>    | (Optional) |
| <i>mti-grp-ip</i>      | (Optional) |
| <i>mti-src-ip</i>      | (Optional) |

**Command Mode**

- /exec

## show forwarding distribution l2 multicast

```
show forwarding distribution l2 multicast [ ip-based | mac-based ] [ vlan <vlan-id> [ { group <grpaddr> [
source <srcaddr> ] } | destination-mac <dmac> ] ] [ summary ] [ __readonly__ [ TABLE_sum [ <mode> ] [
<num_vlan> ] [ <num_starg> ] [ <num_sg> ] [ <num_aggstarg> ] [ TABLE_sum_info [ <ftag_id> ] [ <vlan_id>
] [ <routable_flag> ] [ <num_starg> ] [ <num_sg> ] [ <num_aggstarg> ] [ <total_route> ] ] ] [ TABLE_route
[ <vlan> ] [ <grp_str> ] [ <src_str> ] [ <grp_mac> ] [ <src_mac> ] [ TABLE_oif [ <oiflist_id> ] [ <refcount>
] [ <l3_usage> ] [ <plt_index> ] [ <num_oif> ] [ <oif_name> ] [ <flags> ] [ <dvmif> ] ] ] ] ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                |   |
| forwarding          | Display Forwarding Information                  |
| distribution        | FIB distribution information                    |
| l2                  | L2 information                                  |
| multicast           | L2 multicast information                        |
| ip-based            | (Optional) IPv4 based                           |
| mac-based           | (Optional) MAC based                            |
| vlan                | (Optional) Info specific to a vlan              |
| <i>vlan-id</i>      | (Optional) Vlan id value                        |
| group               | (Optional) Group specific information           |
| <i>grpaddr</i>      | (Optional) Group address                        |
| source              | (Optional) (G,S) specific information           |
| <i>srcaddr</i>      | (Optional) Source address                       |
| destination-mac     | (Optional) Destination MAC specific information |
| <i>dmac</i>         | (Optional) Destination MAC address              |
| summary             | (Optional) display route counts                 |
| <i>__readonly__</i> | (Optional)                                      |
| TABLE_sum           | (Optional)                                      |
| <i>mode</i>         | (Optional) Mode                                 |
| <i>num_vlan</i>     | (Optional) Num of VLAN                          |
| <i>num_starg</i>    | (Optional) Num of Starg routes                  |
| <i>num_sg</i>       | (Optional) Num of SG routes                     |

|                      |   |
|----------------------|---|
| <i>num_aggstarg</i>  | (Optional) Num of Aggregated Starg routes |
| TABLE_sum_info       | (Optional)                                |
| <i>vlan_id</i>       | (Optional) vlan id                        |
| <i>ftag_id</i>       | (Optional) ftag id                        |
| <i>routable_flag</i> | (Optional) Routable flag                  |
| <i>num_starg</i>     | (Optional) Num of starg routes            |
| <i>num_sg</i>        | (Optional) Num of sg routes               |
| <i>num_aggstarg</i>  | (Optional) Num of Aggregated Starg routes |
| <i>total_route</i>   | (Optional) Total Routes                   |
| TABLE_route          | (Optional)                                |
| <i>vlan</i>          | (Optional) vlan                           |
| <i>grp_str</i>       | (Optional) Group Address                  |
| <i>src_str</i>       | (Optional) Source Address                 |
| <i>grp_mac</i>       | (Optional) Group Mac                      |
| <i>src_mac</i>       | (Optional) Source Mac                     |
| TABLE_oif            | (Optional)                                |
| <i>oiflist_id</i>    | (Optional) oiflist index                  |
| <i>refcount</i>      | (Optional) reference count                |
| <i>l3_usage</i>      | (Optional) l3 usage                       |
| <i>plt_index</i>     | (Optional) platform index                 |
| <i>num_oif</i>       | (Optional) Num of outgoing interface      |
| <i>oif_name</i>      | (Optional) Oif details                    |
| <i>flags</i>         | (Optional)                                |
| <i>dvif</i>          | (Optional)                                |

**Command Mode**

- /exec

# show forwarding distribution lisp counters

show forwarding distribution lisp counters [ *\_\_readonly\_\_* <count> ]

## Syntax Description

|                     |                                |
|---------------------|--------------------------------|
| show                |                                |
| forwarding          | Display Forwarding Information |
| distribution        | fib distribution information   |
| lisp                | for lisp application           |
| counters            | counters                       |
| <i>__readonly__</i> | (Optional)                     |
| <i>count</i>        | (Optional) count               |

## Command Mode

- /exec

## show forwarding distribution lisp vrf enabled

```
show forwarding distribution lisp vrf enabled [ __readonly__ { TABLE_lisp_vrf_enabled <vrf> <lisp_enabled>
<req_id> <operation> } ]
```

### Syntax Description

|                        |                                |
|------------------------|--------------------------------|
| show                   |                                |
| forwarding             | Display Forwarding Information |
| distribution           | fib distribution information   |
| lisp                   | for lisp application           |
| vrf                    | vrf                            |
| enabled                | enabled                        |
| <i>__readonly__</i>    | (Optional)                     |
| TABLE_lisp_vrf_enabled | (Optional)                     |
| <i>vrf</i>             | (Optional) vrf key             |
| <i>lisp_enabled</i>    | (Optional) lisp enabled status |
| <i>req_id</i>          | (Optional) req id              |
| <i>operation</i>       | (Optional) operation           |

### Command Mode

- /exec

# show forwarding distribution multicast

```
show forwarding distribution multicast [ messages ] [ __readonly__ <num_accepting_routes> <slot> <fibstate> ]
```

## Syntax Description

|                             |  |
|-----------------------------|--|
| show                        |  |
| forwarding                  | Display Forwarding Information             |
| distribution                | FIB distribution information               |
| multicast                   | Multicast FIB distribution information     |
| messages                    | (Optional) Outstanding Message Information |
| <i>__readonly__</i>         | (Optional)                                 |
| <i>num_accepting_routes</i> | (Optional) Number of fibs accepting routes |
| <i>slot</i>                 | (Optional) Slot                            |
| <i>fibstate</i>             | (Optional) IP Multicast FIB process state  |

## Command Mode

- /exec



## show forwarding distribution multicast client-ack-db

```
show forwarding distribution multicast client-ack-db [ __readonly__ <xid> <num_recepients> <num_responses>
]
```

### Syntax Description

|                       |                                 |
|-----------------------|---------------------------------|
| show                  | show                            |
| forwarding            | Display Forwarding Information  |
| distribution          | FIB distribution information    |
| multicast             | Multicast                       |
| client-ack-db         | Displays the client ack db      |
| <i>__readonly__</i>   | (Optional)                      |
| <i>xid</i>            | (Optional) XID                  |
| <i>num_recepients</i> | (Optional) Number of recepients |
| <i>num_responses</i>  | (Optional) Number of responses  |

### Command Mode

- /exec

# show forwarding distribution multicast client

show forwarding distribution multicast client [ *\_\_readonly\_\_* <num-clients> <client-name> <client-id> <shmem-name> ]

## Syntax Description

|                     |  |
|---------------------|--|
| show                |  |
| forwarding          | Display Forwarding Information                 |
| distribution        | FIB distribution information                   |
| multicast           | Multicast information                          |
| client              | Show multicast distribution client information |
| <i>__readonly__</i> | (Optional)                                     |
| <i>num-clients</i>  | (Optional) Number of Clients registered        |
| <i>client-name</i>  | (Optional) Client Name                         |
| <i>client-id</i>    | (Optional) Client-id                           |
| <i>shmem-name</i>   | (Optional) Shared Memory Segment Name          |

## Command Mode

- /exec

# show forwarding distribution multicast download

show forwarding distribution multicast download

## Syntax Description

|              |  |
|--------------|--|
| show         |  |
| forwarding   | forwarding information                 |
| distribution | FIB distribution information           |
| multicast    | Multicast FIB distribution information |
| download     | show download queues                   |

## Command Mode

- /exec

## show forwarding distribution multicast mfib

```
show forwarding distribution multicast { mfib-txlist [ vrf <vrf-name> ] | mfib-buffers } [ __readonly__
<no-free-buffers> <no-used-buffers> ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   |   |
| forwarding             | Display Forwarding Information                |
| distribution           | FIB distribution information                  |
| multicast              | Multicast information                         |
| mfib-txlist            | Show MFIB transmission-list information       |
| vrf                    | (Optional) Specify VRF                        |
| <i>vrf-name</i>        | (Optional) Specify VRF name                   |
| mfib-buffers           | Show MFIB route buffer information            |
| __readonly__           | (Optional)                                    |
| <i>no-free-buffers</i> | (Optional) Number of Free txlist MFIB buffers |
| <i>no-used-buffers</i> | (Optional) Number of Used txlist MFIB buffers |

### Command Mode

- /exec

# show forwarding distribution multicast outgoing-interface-list L2\_PRIME

```
show forwarding distribution multicast outgoing-interface-list L2_PRIME [ <index> ] [ __readonly__ <dvif>
<platform_index> <ref_count> <l2-oifs> <port_set> ]
```

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    |  |
| forwarding              | Display Forwarding Information           |
| distribution            | FIB distribution information             |
| multicast               | Multicast FIB distribution information   |
| outgoing-interface-list | Outgoing interface list                  |
| L2_PRIME                | Layer 2 oiflist                          |
| <i>index</i>            | (Optional) Outgoing Interface List index |
| <i>__readonly__</i>     | (Optional)                               |
| <i>dvif</i>             | (Optional) Destination VIF               |
| <i>platform_index</i>   | (Optional) Platform index                |
| <i>ref_count</i>        | (Optional) Reference count               |
| <i>l2-oifs</i>          | (Optional) L2 oifs                       |
| <i>port_set</i>         | (Optional) Port set                      |

## Command Mode

- /exec

# show forwarding distribution multicast resp-ack-timer-msgs

show forwarding distribution multicast resp-ack-timer-msgs

## Syntax Description

|                     |                                   |
|---------------------|-----------------------------------|
| show                |                                   |
| forwarding          | Display Forwarding Information    |
| distribution        | FIB distribution information      |
| multicast           | Multicast information             |
| resp-ack-timer-msgs | show response ack timers for MFDM |

## Command Mode

- /exec

## show forwarding distribution multicast route

```
show forwarding distribution [ ip ] multicast route [ table <id> | vrf { <vrf_name> | <vrf-known-name> | all
} ] [ [ group { <gaddr> [ <mask> ] | <gprefix> } ] [ source { <saddr> [ <smask> ] | <sprefix> } ] | summary
] [ __readonly__ TABLE_vrf [ <vrf-name> ] [ <table-name> ] [ <table-id> ] [ <table-wildcard> ] [
<total-num-groups> ] [ TABLE_route_summary [ <vrf-name> ] [ <total-num-routes> ] [ <num-star-g-route>
] [ <num-sg-route> ] [ <num-star-g-prfx> ] [ <num-group-count> ] ] [ TABLE_one_route [ <source-addr>
] [ <source-len> ] [ <group-addr> ] [ <group-len> ] [ <df-ordinal> ] [ <rpf-intf> ] [ <flags> ] [ <stats-pkts>
] [ <stats-bytes> ] [ <oif-count> ] [ <oiflist-index> ] [ TABLE_oif [ <oif-name> ] [ <mti-src-intf> ] [
<mti-grp-ip> ] [ <mti-src-ip> ] [ <next-hop> ] ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  |   |
| forwarding            | Display Forwarding Information                |
| distribution          | FIB distribution information                  |
| ip                    | (Optional) IPV4 information                   |
| multicast             | Multicast information                         |
| route                 | Multicast route related information           |
| vrf                   | (Optional) Specify VRF                        |
| <i>vrf_name</i>       | (Optional) Specify VRF name                   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                     |
| all                   | (Optional) Display information for all VRFs   |
| table                 | (Optional) Specify Multicast Routing Table    |
| <i>id</i>             | (Optional) Multicast Routing Table Identifier |
| group                 | (Optional) IPv4 Multicast Group specific      |
| <i>gaddr</i>          | (Optional) IPv4 Multicast Group Address       |
| <i>mask</i>           | (Optional) mask for group ip address          |
| <i>gprefix</i>        | (Optional) IPv4 Multicast Group Prefix        |
| source                | (Optional) IPv4 Multicast Source specific     |
| <i>saddr</i>          | (Optional) IPv4 Source Address                |
| <i>smask</i>          | (Optional) mask for group ip address          |
| <i>sprefix</i>        | (Optional) IPv4 Multicast Source Prefix       |
| summary               | (Optional) display route counts               |

|                         |            |
|-------------------------|------------|
| <i>__readonly__</i>     | (Optional) |
| TABLE_vrf               | (Optional) |
| <i>vrf-name</i>         | (Optional) |
| <i>table-name</i>       | (Optional) |
| <i>table-id</i>         | (Optional) |
| <i>table-wildcard</i>   | (Optional) |
| <i>total-num-groups</i> | (Optional) |
| TABLE_route_summary     | (Optional) |
| <i>total-num-routes</i> | (Optional) |
| <i>num-star-g-route</i> | (Optional) |
| <i>num-sg-route</i>     | (Optional) |
| <i>num-star-g-prfx</i>  | (Optional) |
| <i>num-group-count</i>  | (Optional) |
| TABLE_one_route         | (Optional) |
| <i>source-addr</i>      | (Optional) |
| <i>source-len</i>       | (Optional) |
| <i>group-addr</i>       | (Optional) |
| <i>group-len</i>        | (Optional) |
| <i>df-ordinal</i>       | (Optional) |
| <i>rpf-intf</i>         | (Optional) |
| <i>flags</i>            | (Optional) |
| <i>stats-pkts</i>       | (Optional) |
| <i>stats-bytes</i>      | (Optional) |
| <i>oif-count</i>        | (Optional) |
| <i>oiflist-index</i>    | (Optional) |
| TABLE_oif               | (Optional) |
| <i>oif-name</i>         | (Optional) |
| <i>mti-src-intf</i>     | (Optional) |
| <i>mti-grp-ip</i>       | (Optional) |



|                   |            |
|-------------------|------------|
| <i>mti-src-ip</i> | (Optional) |
| <i>next-hop</i>   | (Optional) |

**Command Mode**

- /exec

# show forwarding distribution multicast vxlan dsg-db

show forwarding distribution multicast vxlan dsg-db

## Syntax Description

|              |                                |
|--------------|--------------------------------|
| show         | show                           |
| forwarding   | Display Forwarding Information |
| distribution | FIB distribution information   |
| multicast    | Multicast                      |
| vxlan        | vxlan                          |
| dsg-db       | delivery group/source db       |

## Command Mode

- /exec

## show forwarding distribution nve overlay-vlan

show forwarding distribution nve overlay-vlan [ *\_\_readonly\_\_* *TABLE\_overlay\_vlan\_peer\_id* <Vlan> <SVP> <install> <Origin> <VFP-region> <peercount> <peer\_id> + ]

### Syntax Description

|                                   |                                       |
|-----------------------------------|---------------------------------------|
| show                              | Show running system information       |
| forwarding                        | forwarding information                |
| distribution                      | fib distribution info                 |
| nve                               | nve distribution info                 |
| overlay-vlan                      | overlay-vlan adjacency info           |
| <i>__readonly__</i>               | (Optional)                            |
| <i>TABLE_overlay_vlan_peer_id</i> | (Optional) overlay vlan peer id table |
| <i>Vlan</i>                       | (Optional) VLAN                       |
| <i>SVP</i>                        | (Optional) SVP                        |
| <i>install</i>                    | (Optional) install                    |
| <i>Origin</i>                     | (Optional) Origin                     |
| <i>VFP-region</i>                 | (Optional) VFP-region                 |
| <i>peercount</i>                  | (Optional) Total count of Peers       |
| <i>peer_id</i>                    | (Optional) Peer-ID                    |

### Command Mode

- /exec

## show forwarding distribution peer-id

```
show forwarding distribution peer-id [ vpls | otv ] [ __readonly__ <header> TABLE_peer_id <app> <vlan>
<id> <peer_id> ]
```

### Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information           |
| forwarding     | forwarding information                    |
| distribution   | fib distribution info                     |
| peer-id        | HW Peer-id allocation info                |
| vpls           | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| otv            | (Optional) OTV                            |
| __readonly__   | (Optional)                                |
| <i>header</i>  | (Optional) Header                         |
| TABLE_peer_id  | (Optional) Peer ID table                  |
| <i>app</i>     | (Optional) OTV/VPLS                       |
| <i>vlan</i>    | (Optional) VLAN                           |
| <i>id</i>      | (Optional) ID                             |
| <i>peer_id</i> | (Optional) Peer-ID                        |

### Command Mode

- /exec

# show forwarding distribution trace

show forwarding distribution trace

## Syntax Description

|              |                                |
|--------------|--------------------------------|
| show         |                                |
| forwarding   | Display Forwarding Information |
| distribution | fib distribution info          |
| trace        | unicast trace information      |

## Command Mode

- /exec

## show forwarding ecmp

```
show forwarding ecmp [ { [ vrf { <vrf-name> | <vrf-known-name> } ] lisp } ] [ platform ] [ module <module> ] [ partial ] [ __readonly__ [ <header> <ecmp_hash> <intf> <nh> <v6nh> <hw_index> <num_mpls> <holder> <refcount> <num_paths> <sw_ptr> <ecmp_partial> ] [ TABLE_ecmp { [ <hash> ] [ <num_paths> ] [ <hwindex> ] [ <ecmppartial> ] [ TABLE_index { [ <ecmp_idx> ] [ <cmn_idx> } ] ] [ <refcnt> ] [ <ecmp_holder> } ] [ TABLE_adjacency { [ <intf> ] [ <nh> ] [ <v6nh> ] [ <hw_adj_idx> ] [ <hw_cmn_idx> ] [ <lif> ] [ <hw_nve_adj_idx> ] [ <hw_nve_cmn_idx> ] [ <nve_lif> } ] ] [ <vobj_count> ] [ <vxlan_vobj_count> ] [ <vxlan> ] [ <vobj_list_header> ] [ <vobj-id> ] ] ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  |  |
| forwarding            | Display fib information                                |
| ecmp                  | Show information about ECMPs                           |
| vrf                   | (Optional) display info per VRF                        |
| <i>vrf-name</i>       | (Optional) VRF name                                    |
| <i>vrf-known-name</i> | (Optional) Known VRF name                              |
| lisp                  | (Optional) Show information about LISP ECMPs           |
| platform              | (Optional) one command to show pi and pd info together |
| module                | (Optional) slot  |
| <i>module</i>         | (Optional) slot number                                 |
| partial               | (Optional) Show partially installed ECMPs              |
| __readonly__          | (Optional)   |
| <i>header</i>         | (Optional) o/p header                                  |
| <i>ecmp_hash</i>      | (Optional) ecmp hash                                   |
| <i>intf</i>           | (Optional) interface                                   |
| <i>nh</i>             | (Optional) next hop                                    |
| <i>v6nh</i>           | (Optional) V6 next hop                                 |
| <i>hw_index</i>       | (Optional) Hw index                                    |
| <i>num_mpls</i>       | (Optional) No of MPLS ecmp                             |
| <i>holder</i>         | (Optional) holder bitmap                               |
| <i>refcount</i>       | (Optional) refcount                                    |
| <i>sw_ptr</i>         | (Optional) Software pointer                            |

|                         |                             |
|-------------------------|-----------------------------|
| <i>num_paths</i>        | (Optional) No of paths      |
| <i>ecmp_partial</i>     | (Optional) partial ecmp     |
| TABLE_ecmp              | (Optional) ecmp table       |
| <i>hash</i>             | (Optional) ecmp hash        |
| <i>num_paths</i>        | (Optional) No of paths      |
| <i>hwindex</i>          | (Optional) Hw index         |
| <i>ecmpartial</i>       | (Optional) partial ecmp     |
| TABLE_index             | (Optional) index table      |
| <i>ecmp_idx</i>         | (Optional) hw ecmp index    |
| <i>cmn_idx</i>          | (Optional) cmn index        |
| <i>refcnt</i>           | (Optional) refcount         |
| <i>ecmp_holder</i>      | (Optional) holder bitmap    |
| TABLE_adjacency         | (Optional) adjacency table  |
| <i>intf</i>             | (Optional) interface        |
| <i>nh</i>               | (Optional) next hop         |
| <i>v6nh</i>             | (Optional) v6 next hop      |
| <i>hw_adj_idx</i>       | (Optional) hw adj index     |
| <i>hw_cmn_idx</i>       | (Optional) hw cmn index     |
| <i>lif</i>              | (Optional) lif              |
| <i>hw_nve_adj_idx</i>   | (Optional) nve adj index    |
| <i>hw_nve_cmn_idx</i>   | (Optional) nve cmn index    |
| <i>nve_lif</i>          | (Optional) nve lif          |
| <i>vobj_count</i>       | (Optional) vobj count       |
| <i>vxlan_vobj_count</i> | (Optional) vxlan vobj count |
| <i>vxlan</i>            | (Optional) vxlan            |
| <i>vobj_list_header</i> | (Optional) vobj list header |
| <i>vobj-id</i>          | (Optional) vobj id          |

**Command Mode**

- /exec

## show forwarding ecmp recursive

```

show forwarding ecmp recursive [ platform ] [ max-display-count <display_count> ] [ module <module> ] [
partial ] [ __readonly__ [ TABLE_vobj { [ <header_vobj> ] [ <header_ecmp> } ] [ TABLE_vobj_idx { [
<hw_vobj_index> ] [ <cmn_index> } ] [ <num_pfxs> ] [ <ecmp_partial> ] [ <activepath_hdr> ] [
TABLE_active { [ TABLE_activepath { [ <ap_nh> ] [ <ap_v6nh> ] [ <ap_rnh_len> ] [ <ap_nh_vpn_label>
] [ <ap_rnh_table_id> ] [ <ap_nh_weight> } ] } ] [ <backuppah_hdr> ] [ TABLE_backuppah { [ <bp_nh>
] [ <bp_v6nh> ] [ <bp_nh_vpn_label> ] [ <bp_rnh_table_id> ] [ <bp_nh_weight> } ] } ] [ <cnh_hdr> ] [
TABLE_cnh { [ <nh> ] [ <v6nh> ] [ <intf> ] [ TABLE_cnh_adj { [ <hw_adj> ] [ <hw_cmn_index> ] [ <lif>
] } ] } ] [ <hw_inst_n> ] [ <ls_count_n> ] [ <hw_inst_o> ] [ <ls_count_o> ] [ <fec_type> ] [ <header_fec_ecmp>
] [ <hw_vobj_fec_idx> ] [ <cmn_idx> ] [ <vobj_hw_inst_n> ] [ <vobj_ls_count_n> ] [ <vobj_hw_inst_o> ]
] [ <vobj_ls_count_o> ] [ <vobj_refcount> ] [ TABLE_vobj_ecmp { [ <ec_hash> ] [ <ec_num_paths> ] [
<ec_hwinde> ] [ <ec_ecmppartial> ] [ <ec_refcnt> ] [ <ec_ecmp_holder> } ] [ TABLE_adjacency_ec { [
<ec_intf> ] [ <ec_nh> ] [ <ec_v6nh> ] [ <ec_hw_adj_idx> ] [ <ec_hw_cmn_idx> ] [ <ec_lif> ] [
<ec_hw_nve_adj_idx> ] [ <ec_hw_nve_cmn_idx> ] [ <ec_nve_lif> } ] } ] [ <ec_vobj_count> ] [
<ec_vxlan_vobj_count> ] [ <ec_vxlan> ] [ <ec_vobj_list_header> ] } ] [ <header> <num_pfxs> <rnh_table_id>
<nh> <rnh_len> <v6nh> <hw_instance> <nh_vpn_label> <nh_weight> <cnh_intf> <ecmp_partial> ] [
TABLE_ecmp { [ <hash> ] [ <num_paths> ] [ <hwinde> ] [ <ecmppartial> ] [ TABLE_index { [ <ecmp_idx>
] [ <cmn_idx> } ] [ <refcnt> ] [ <ecmp_holder> } ] [ TABLE_adjacency { [ <intf> ] [ <nh> ] [ <v6nh> ] [
<hw_adj_idx> ] [ <hw_cmn_idx> ] [ <lif> ] [ <hw_nve_adj_idx> ] [ <hw_nve_cmn_idx> ] [ <nve_lif> } ] } ]
] [ <vobj_count> ] [ <vxlan_vobj_count> ] [ <vxlan> ] [ <vobj_list_header> ] [ TABLE_vobj_id { [ <vobj-id>
] } ] } ] } ]

```

### Syntax Description

|                      |  |
|----------------------|--|
| show                 |  |
| forwarding           | Display fib information                                |
| ecmp                 | Show information about ECMPs                           |
| recursive            | Show information about recursive ECMPs                 |
| platform             | (Optional) one command to show pi and pd info together |
| module               | (Optional) slot  |
| partial              | (Optional) Show partially installed ECMPs              |
| <i>module</i>        | (Optional) slot number                                 |
| max-display-count    | (Optional) displays max # of routes                    |
| <i>display_count</i> | (Optional) count                                       |
| <i>__readonly__</i>  | (Optional)   |
| TABLE_vobj           | (Optional) Table vobj                                  |
| <i>header_vobj</i>   | (Optional) vobj o/p header                             |
| <i>header_ecmp</i>   | (Optional) ecmp o/p header                             |



|                        |   |
|------------------------|---|
| TABLE_vobj_idx         | (Optional) Table vobj index                             |
| <i>hw_vobj_index</i>   | (Optional) HW VOBJ Index                                |
| <i>cmn_index</i>       | (Optional) cmn index                                    |
| <i>num_pfxs</i>        | (Optional) Number of prefixes using this virtual object |
| <i>ecmp_partial</i>    | (Optional) partial ecmp                                 |
| <i>activepath_hdr</i>  | (Optional) o/p header                                   |
| TABLE_active           | (Optional) table active                                 |
| TABLE_activepath       | (Optional) table active path                            |
| <i>ap_nh</i>           | (Optional) Next hop info                                |
| <i>ap_v6nh</i>         | (Optional) v6 Next hop info                             |
| <i>ap_rnh_len</i>      | (Optional) Next hop mask length                         |
| <i>ap_nh_vpn_label</i> | (Optional) NH VPN label                                 |
| <i>ap_rnh_table_id</i> | (Optional) The table id where the RNHs are present      |
| <i>ap_nh_weight</i>    | (Optional) weighted ecmp info                           |
| <i>backuppath_hdr</i>  | (Optional) o/p header                                   |
| TABLE_backuppath       | (Optional) backup path table                            |
| <i>bp_nh</i>           | (Optional) Next hop info                                |
| <i>bp_v6nh</i>         | (Optional) v6 Next hop info                             |
| <i>bp_nh_vpn_label</i> | (Optional) NH VPN label                                 |
| <i>bp_rnh_table_id</i> | (Optional) The table id where the RNHs are present      |
| <i>bp_nh_weight</i>    | (Optional) weighted ecmp info                           |
| <i>cnh_hdr</i>         | (Optional) o/p header                                   |
| TABLE_cnh              | (Optional) cnh table                                    |
| <i>nh</i>              | (Optional) Next hop info                                |
| <i>v6nh</i>            | (Optional) v6 Next hop info                             |
| <i>intf</i>            | (Optional) cnh output interface                         |
| TABLE_cnh_adj          | (Optional) Table cnh adjacency                          |
| <i>hw_adj</i>          | (Optional) cnh hw adjacency                             |
| <i>hw_cmn_index</i>    | (Optional) cnh hw cmn idx                               |

|                          |                                       |
|--------------------------|---------------------------------------|
| <i>lif</i>               | (Optional) lif                        |
| <i>hw_inst_n</i>         | (Optional) Hardware instance info new |
| <i>ls_count_n</i>        | (Optional) ls count new               |
| <i>hw_inst_o</i>         | (Optional) Hardware instance info old |
| <i>ls_count_o</i>        | (Optional) ls count old               |
| <i>fec_type</i>          | (Optional) fec type                   |
| <i>header_fec_ecmp</i>   | (Optional) o/p header                 |
| <i>hw_vobj_fec_idx</i>   | (Optional) hw fec idx                 |
| <i>cmn_idx</i>           | (Optional) cmn idx                    |
| <i>vobj_hw_inst_n</i>    | (Optional) vobj hw instance           |
| <i>vobj_ls_count_n</i>   | (Optional) ls count new               |
| <i>vobj_hw_inst_o</i>    | (Optional) hw instnace info old       |
| <i>vobj_ls_count_o</i>   | (Optional) ls count old               |
| <i>vobj_refcount</i>     | (Optional) vobj refcount              |
| TABLE_vobj_ecmp          | (Optional) ecmp table                 |
| <i>ec_hash</i>           | (Optional) ecmp hash                  |
| <i>ec_num_paths</i>      | (Optional) No of paths                |
| <i>ec_hwindex</i>        | (Optional) Hw index                   |
| <i>ec_ecmppartial</i>    | (Optional) partial ecmp               |
| <i>ec_refcnt</i>         | (Optional) refcount                   |
| <i>ec_ecmp_holder</i>    | (Optional) holder bitmap              |
| TABLE_adjacency_ec       | (Optional) adjacency table            |
| <i>ec_intf</i>           | (Optional) interface                  |
| <i>ec_nh</i>             | (Optional) next hop                   |
| <i>ec_v6nh</i>           | (Optional) v6 next hop                |
| <i>ec_hw_adj_idx</i>     | (Optional) hw adj index               |
| <i>ec_hw_cmn_idx</i>     | (Optional) hc cmn index               |
| <i>ec_lif</i>            | (Optional) lif                        |
| <i>ec_hw_nve_adj_idx</i> | (Optional) nve adj index              |

|                            |   |
|----------------------------|---|
| <i>ec_hw_nve_cmn_idx</i>   | (Optional) nve cmn index                                |
| <i>ec_nve_lif</i>          | (Optional) nve lif                                      |
| <i>ec_vobj_count</i>       | (Optional) vobj count                                   |
| <i>ec_vxlan_vobj_count</i> | (Optional) vxlan vobj count                             |
| <i>ec_vxlan</i>            | (Optional) vxlan  |
| <i>ec_vobj_list_header</i> | (Optional) vobj list header                             |
| <i>header</i>              | (Optional) o/p header                                   |
| <i>num_pfxs</i>            | (Optional) Number of prefixes using this virtual object |
| <i>rnh_table_id</i>        | (Optional) The table id where the RNHs are present      |
| <i>nh</i>                  | (Optional) Next hop info                                |
| <i>rnh_len</i>             | (Optional) Next hop mask length                         |
| <i>v6nh</i>                | (Optional) V6 Next hop info                             |
| <i>hw_instance</i>         | (Optional) Hardware instance info                       |
| <i>nh_vpn_label</i>        | (Optional) NH VPN label                                 |
| <i>nh_weight</i>           | (Optional) weighted ecmp info                           |
| <i>cnh_intf</i>            | (Optional) cnh output interface                         |
| <i>ecmp_partial</i>        | (Optional) partial ecmp                                 |
| TABLE_ecmp                 | (Optional) ecmp table                                   |
| <i>hash</i>                | (Optional) ecmp hash                                    |
| <i>num_paths</i>           | (Optional) No of paths                                  |
| <i>hwindex</i>             | (Optional) Hw index                                     |
| <i>ecmpartial</i>          | (Optional) partial ecmp                                 |
| TABLE_index                | (Optional) index table                                  |
| <i>ecmp_idx</i>            | (Optional) hw ecmp index                                |
| <i>cmn_idx</i>             | (Optional) cmn index                                    |
| <i>refcnt</i>              | (Optional) refcount                                     |
| <i>ecmp_holder</i>         | (Optional) holder bitmap                                |
| TABLE_adjacency            | (Optional) adjacency table                              |
| <i>intf</i>                | (Optional) interface                                    |

|                         |                             |
|-------------------------|-----------------------------|
| <i>nh</i>               | (Optional) next hop         |
| <i>v6nh</i>             | (Optional) v6 next hop      |
| <i>hw_adj_idx</i>       | (Optional) hw adj index     |
| <i>hw_cmn_idx</i>       | (Optional) hw cmn index     |
| <i>lif</i>              | (Optional) lif              |
| <i>hw_nve_adj_idx</i>   | (Optional) nve adj index    |
| <i>hw_nve_cmn_idx</i>   | (Optional) nve cmn index    |
| <i>nve_lif</i>          | (Optional) nve lif          |
| <i>vobj_count</i>       | (Optional) vobj count       |
| <i>vxlan_vobj_count</i> | (Optional) vxlan vobj count |
| <i>vxlan</i>            | (Optional) vxlan            |
| <i>vobj_list_header</i> | (Optional) vobj list header |
| TABLE_vobj_id           | (Optional) vobj_id table    |
| <i>vobj-id</i>          | (Optional) vobj id          |

**Command Mode**

- /exec

# show forwarding interfaces

```
show forwarding interfaces [ module <module> ] [ __readonly__ TABLE_intf_str <intf> <v4adjcnt> <v6adjcnt>
<v4rpfmode> <v6rpfmode> <mac> ]
```

## Syntax Description

|                  |                                    |
|------------------|------------------------------------|
| show             |                                    |
| forwarding       | fib information                    |
| interfaces       | show fib interface info            |
| __readonly__     | (Optional)                         |
| TABLE_intf_str   | (Optional) show interface string   |
| <i>intf</i>      | (Optional) interface name          |
| module           | (Optional) slot                    |
| <i>module</i>    | (Optional) slot number             |
| <i>v4adjcnt</i>  | (Optional) count of v4 adjacencies |
| <i>v6adjcnt</i>  | (Optional) count of v6 adjacencies |
| <i>mac</i>       | (Optional) mac address             |
| <i>v4rpfmode</i> | (Optional) v4 uRPF mode            |
| <i>v6rpfmode</i> | (Optional) v6 uRPF mode            |

## Command Mode

- /exec

## show forwarding ipv6 adjacency

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 adjacency [ mpls ] [ nve ] [ <aif>
] [ <anh> ] [ detail | stats | platform ] [ module <module> ] [ __readonly__ [ <adj-count> ] [ TABLE_adj { [
<fec> ] <nexthop> <rewinfo> [ <interface> ] [ <pkts> ] [ <bytes> ] [ <bgp_rnh> ] [ <bgp_orig_as> ] [
<bgp_peer_as> ] [ <hh> ] [ <refcount> ] } ] [ TABLE_v6_adj { [ <nh> ] [ <rwinfo> ] [ <intf> ] [ <intf_idx>
] [ <hh> ] [ <refcnt> ] [ <flags> ] [ <holder> ] [ <pbr_cnt> ] [ <wccp_cnt> ] [ TABLE_index { [ <hw_adj>
] [ <cmn_idx> ] [ <lif> ] } ] } ] }
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  |  |
| forwarding            | display fib information                                |
| ipv6                  | ipv6   |
| adjacency             | display adjacency information                          |
| platform              | (Optional) one command to show pi and pd info together |
| vrf                   | (Optional) display info per VRF                        |
| <i>vrf-name</i>       | (Optional) VRF name                                    |
| <i>vrf-known-name</i> | (Optional) Known VRF name                              |
| vrf-all               | (Optional) Display information for all VRFs            |
| mpls                  | (Optional) mpls adjacency information                  |
| nve                   | (Optional) nve adjacency information                   |
| <i>aif</i>            | (Optional) adjacency output interface                  |
| detail                | (Optional) detail                                      |
| stats                 | (Optional) adjacency statistics                        |
| module                | (Optional) slot  |
| <i>module</i>         | (Optional) slot number                                 |
| __readonly__          | (Optional)   |
| <i>adj-count</i>      | (Optional) total adj count                             |
| TABLE_adj             | (Optional) Table Adjacency                             |
| <i>fec</i>            | (Optional) FEC info                                    |
| <i>nexthop</i>        | (Optional) next hop address                            |
| <i>rewinfo</i>        | (Optional) rewrite information                         |

|                    |                                |
|--------------------|--------------------------------|
| <i>interface</i>   | (Optional) output interface    |
| <i>pkts</i>        | (Optional) packet stats        |
| <i>bytes</i>       | (Optional) bytes stats         |
| <i>bgp_rnh</i>     | (Optional) next hop address    |
| <i>bgp_orig_as</i> | (Optional) bgp orig as         |
| <i>bgp_peer_as</i> | (Optional) bgp peer as         |
| <i>hh</i>          | (Optional) Hardware Handle     |
| <i>refcount</i>    | (Optional) reference count     |
| TABLE_v6_adj       | (Optional) Table Adjacency     |
| <i>nh</i>          | (Optional) next hop address    |
| <i>rwinfo</i>      | (Optional) rewrite information |
| <i>intf</i>        | (Optional) output interface    |
| <i>intf_idx</i>    | (Optional) Interface index     |
| <i>hh</i>          | (Optional) Hardware Handle     |
| <i>refcnt</i>      | (Optional) reference count     |
| <i>flags</i>       | (Optional) Adjacency flags     |
| <i>holder</i>      | (Optional) Holder bitmap       |
| <i>pbr_cnt</i>     | (Optional) PBR count           |
| <i>wccp_cnt</i>    | (Optional) WCCP count          |
| TABLE_index        | (Optional) HW index table      |
| <i>hw_adj</i>      | (Optional) v4 adj hw index     |
| <i>cmn-idx</i>     | (Optional) CMN Index           |
| <i>lif</i>         | (Optional) LIF                 |

### Command Mode

- /exec

## show forwarding ipv6 inconsistency

```
show forwarding ipv6 [ unicast ] inconsistency [ suppress-transient ] [ vrf { <vrf-name> | all_vrfs } ] [ module
{ <module> | all_modules } ] [ __readonly__ [ <err_str> ] [ <cc_header> ] [ <table_id> ] [ <slot_id> ] [
<exec_time> ] [ <elapsed_time> ] [ <inconsis_adjs> ] [ TABLE_inconsistency_adjs { <idipv6> <slotipv6>
[ <unitipv6> ] <vrfipv6> [ <ipv6addr> ] [ <ipv6prefix> ] [ <interfaceipv6> ] <reasonipv6> } ] [
<inconsis_routes> ] [ TABLE_inconsistency_routes { <idipv6> <slotipv6> [ <unitipv6> ] <vrfipv6> [
<ipv6addr> ] [ <ipv6prefix> ] [ <interfaceipv6> ] <reasonipv6> } ] [ <run_status> ] ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | show  |
| forwarding               | Display Forwarding Information                |
| ipv6                     | ipv6  |
| unicast                  | (Optional) unicast                            |
| inconsistency            | route inconsistency check                     |
| suppress-transient       | (Optional) Suppress Transient state           |
| vrf                      | (Optional) check routes for a specific VRF    |
| <i>vrf-name</i>          | (Optional) VRF name                           |
| module                   | (Optional) check routes for a specific module |
| <i>module</i>            | (Optional) module number                      |
| all_modules              | (Optional) all module's                       |
| all_vrfs                 | (Optional) all vrf's                          |
| __readonly__             | (Optional)                                    |
| <i>err_str</i>           | (Optional)                                    |
| <i>cc_header</i>         | (Optional)                                    |
| <i>table_id</i>          | (Optional)                                    |
| <i>slot_id</i>           | (Optional)                                    |
| <i>exec_time</i>         | (Optional)                                    |
| <i>elapsed_time</i>      | (Optional)                                    |
| <i>inconsis_adjs</i>     | (Optional)                                    |
| TABLE_inconsistency_adjs | (Optional)                                    |
| <i>idipv6</i>            | (Optional)                                    |



|                            |            |
|----------------------------|------------|
| <i>slotipv6</i>            | (Optional) |
| <i>unitipv6</i>            | (Optional) |
| <i>vripv6</i>              | (Optional) |
| <i>interfaceipv6</i>       | (Optional) |
| <i>reasonipv6</i>          | (Optional) |
| <i>inconsis_routes</i>     | (Optional) |
| TABLE_inconsistency_routes | (Optional) |
| <i>idipv6</i>              | (Optional) |
| <i>slotipv6</i>            | (Optional) |
| <i>unitipv6</i>            | (Optional) |
| <i>vripv6</i>              | (Optional) |
| <i>interfaceipv6</i>       | (Optional) |
| <i>reasonipv6</i>          | (Optional) |
| <i>run_status</i>          | (Optional) |

**Command Mode**

- /exec

## show forwarding ipv6 multicast route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | all } | table <tab_id> ] ipv6 multicast route { [
group { <group> | <group_addr> } | source { <source> | <source_addr> } | module <module> | vrf { <vrf-name>
| all } ] + | summary [ module <module> | vrf { <vrf-name> | <vrf-known-name> | all } ] + } [ __readonly__
[ <table_type> ] [ <vrfname> ] [ <table_id> ] [ <num_routes> <num_starg_routes> <num_sg_routes>
<num_gprefix_routes> ] [ <num_groups> ] [ <num_sources> ] [ <num_prefix_insert_fail> ] [ [
TABLE_MROUTE_INFO <address> [ <src_len> <grp_len> ] [ <df_ordinal> ] [ <rpffif> ] [ <rpif_index> ]
<flag> [ <flag_value> ] <route_pkts> <route_bytes> <oiflist_id> <oif_count> <oiflist_flag> [
TABLE_OIF_INFO <oifindex> [ <vlan> ] [ TABLE_MCAST_OIF_INTF_INFO [ <oifname> ] [ <dviif> ]
[ <platform_id> ] [ <encap_id> ] [ <hw_index> ] ] ] ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  |   |
| forwarding            | display fib information                     |
| ipv6                  | ipv6  |
| multicast             | IPV6 related Multicast information          |
| route                 | Multicast route information                 |
| vrf                   | (Optional) display info per VRF             |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| table                 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| <i>tab_id</i>         | (Optional) table number                     |
| group                 | (Optional) Multicast IPv6 Group Address     |
| source                | (Optional) Multicast IPv6 Source Address    |
| summary               | display route counts                        |
| module                | (Optional) slot                             |
| <i>module</i>         | (Optional) slot number                      |
| __readonly__          | (Optional)                                  |
| <i>table_type</i>     | (Optional) Table Type                       |
| <i>vrfname</i>        | (Optional) VRF name                         |
| <i>table_id</i>       | (Optional) Table ID                         |

|                               |   |
|-------------------------------|---|
| <i>num_routes</i>             | (Optional) Number of routes                               |
| <i>num_starg_routes</i>       | (Optional) Number of (*,G) routes                         |
| <i>num_sg_routes</i>          | (Optional) Number of (S,G) routes                         |
| <i>num_gprefix_routes</i>     | (Optional) Number of (*,G-prefix) routes                  |
| <i>num_groups</i>             | (Optional) Number of group entries in the table           |
| <i>num_prefix_insert_fail</i> | (Optional) Prefix insert fail count                       |
| <i>num_sources</i>            | (Optional) Number of (S, G) entries for the group address |
| TABLE_MROUTE_INFO             | (Optional) Mroute info                                    |
| <i>address</i>                | (Optional) Mcast address                                  |
| <i>src_len</i>                | (Optional) Source Address Mask                            |
| <i>grp_len</i>                | (Optional) Group address Mask                             |
| <i>df_ordinal</i>             | (Optional) DF ordinal                                     |
| <i>rpfif</i>                  | (Optional) RPF interface                                  |
| <i>rpf_ifindex</i>            | (Optional) RPF Interface ifIndex                          |
| <i>flag</i>                   | (Optional) Route type flag                                |
| <i>flag_value</i>             | (Optional) hex value of route flag                        |
| <i>route_pkts</i>             | (Optional) Route packet count                             |
| <i>route_bytes</i>            | (Optional) Route bytes                                    |
| <i>oiflist_id</i>             | (Optional) OIF list Identifier                            |
| <i>oif_count</i>              | (Optional) Number of OIFs                                 |
| <i>oiflist_flag</i>           | (Optional) OIF List flag                                  |
| TABLE_OIF_INFO                | (Optional) OIF Info                                       |
| <i>oifindex</i>               | (Optional) OIF Interface ifIndex                          |
| <i>vlan</i>                   | (Optional) Vlan id  |
| TABLE_MCAST_OIF_INTF_INFO     | (Optional) OIF Interfaces                                 |
| <i>oifname</i>                | (Optional) OIF Interface name                             |
| <i>dvif</i>                   | (Optional) DVIF   |
| <i>platform_id</i>            | (Optional) Platform-index                                 |
| <i>encap_id</i>               | (Optional) Encap ID                                       |

|                 |                           |
|-----------------|---------------------------|
| <i>hw_index</i> | (Optional) Hardware index |
|-----------------|---------------------------|

**Command Mode**

- /exec

# show forwarding kvfib cache on

show forwarding kvfib cache { on | off }

## Syntax Description

|            |                 |
|------------|-----------------|
| show       |                 |
| forwarding | fib information |
| kvfib      | kvfib           |
| cache      | cache           |
| on         | set variable    |
| off        | reset variable  |

## Command Mode

- /exec

## show forwarding l2 multicast

```
show forwarding l2 multicast { [ { vlan <vlan-id> [ { group <grpaddr> source <srcaddr> } | destination-mac
<dstmac> ] } ] [ vdc <vdc-id> ] [ module <num> ] [ __readonly__ [ TABLE_L2_MCAST_INFO <vlan_id>
[ <group> ] [ <source> ] [ <dmac> ] <epoch> <resource_id> <dest_index> [ <hw_handle> ] [ <text> ] [
<value> ] ] ] }
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information           |
| forwarding          | Forwarding information                    |
| l2                  | L2 related information                    |
| multicast           | Multicast related information             |
| vlan                | (Optional) Information Specific to a Vlan |
| <i>vlan-id</i>      | (Optional) Vlan id value                  |
| group               | (Optional) (S,G) specific information     |
| <i>grpaddr</i>      | (Optional) Group address                  |
| source              | (Optional) source specific information    |
| <i>srcaddr</i>      | (Optional) Source address                 |
| destination-mac     | (Optional) Destination MAC address        |
| <i>dstmac</i>       | (Optional) Ethernet MAC address           |
| vdc                 | (Optional) VDC                            |
| <i>vdc-id</i>       | (Optional) VDC id                         |
| module              | (Optional) Slot                           |
| <i>num</i>          | (Optional) Slot number                    |
| __readonly__        | (Optional)                                |
| TABLE_L2_MCAST_INFO | (Optional) L2 Multicast Info              |
| <i>vlan_id</i>      | (Optional) Vlan Identifier                |
| <i>group</i>        | (Optional) Multicast IPv4 Group Address   |
| <i>source</i>       | (Optional) Multicast IPv4 Source Address  |
| <i>dmac</i>         | (Optional) Destination MAC address        |
| <i>epoch</i>        | (Optional) Epoch number                   |

|                    |   |
|--------------------|---|
| <i>resource_id</i> | (Optional) Resource Identifier          |
| <i>dest_index</i>  | (Optional) Destination Index Identifier |
| <i>hw_handle</i>   | (Optional) Hardware Handle              |
| <i>text</i>        | (Optional) String                       |
| <i>value</i>       | (Optional) Value                        |

**Command Mode**

- /exec

# show forwarding l2vpn label vpls

show forwarding l2vpn label [ <label\_id> ] vpls [ module module ] [ \_\_readonly\_\_ <label\_id> ]

## Syntax Description

|                 |                        |
|-----------------|------------------------|
| show            | show                   |
| forwarding      | forwarding             |
| l2vpn           | l2vpn forwarding       |
| label           | VC label               |
| <i>label_id</i> | (Optional) VC label    |
| vpls            | VPLS                   |
| module          | (Optional) slot        |
| <i>module</i>   | (Optional) slot number |
| __readonly__    | (Optional)             |
| <i>label_id</i> | (Optional) Label ID    |

## Command Mode

- /exec



# show forwarding l2vpn label xconnect

show forwarding l2vpn label [ <label\_id> ] xconnect [ module module ] [ \_\_readonly\_\_ <label\_id> ]

## Syntax Description

|                 |                        |
|-----------------|------------------------|
| show            | show                   |
| forwarding      | forwarding             |
| l2vpn           | l2vpn forwarding       |
| label           | VC label               |
| <i>label_id</i> | (Optional) VC label    |
| xconnect        | xconnect or VPWS       |
| module          | (Optional) slot        |
| <i>module</i>   | (Optional) slot number |
| __readonly__    | (Optional)             |
| <i>label_id</i> | (Optional) Label ID    |

## Command Mode

- /exec

## show forwarding l2vpn vlan

show forwarding l2vpn vlan [ <vlan\_id> ] [ module <module> ] [ \_\_readonly\_\_ <vlan> ]

### Syntax Description

|                     |                        |
|---------------------|------------------------|
| show                | show                   |
| forwarding          | forwarding             |
| l2vpn               | l2vpn forwarding       |
| vlan                | vlan                   |
| <i>vlan_id</i>      | (Optional) vlan id     |
| module              | (Optional) slot        |
| <i>module</i>       | (Optional) slot number |
| <i>__readonly__</i> | (Optional)             |
| <i>vlan</i>         | (Optional) vlan        |

### Command Mode

- /exec

# show forwarding mpls

```
show forwarding mpls [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } [ label <label-id> | <prefix> |
<v6prefix> ] | table <table_id> [ label <label-id> | <prefix> | <v6prefix> ] | label-space <label-space-id> |
label <label-id> | <prefix> | <v6prefix> ] [ stats ] [ module <module> ] [ implicit ] [ platform ] [ __readonly__
[ { TABLE_mpls <label> [ { TABLE_table_id [ <out-table-id> ] [ <fec> ] [ <out-ip> ] [ <out-intf> ] [
<out-label> ] [ <out-op> ] [ <hh> ] [ <ref-count> } ] ] [ <in-pkts> ] [ <in-bytes> ] [ <swap-out-pkts> ] [
<swap-out-bytes> ] [ <tunnel-out-pkts> ] [ <tunnel-out-bytes> } ] ] ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | show   |
| forwarding            | forwarding                                     |
| mpls                  | mpls forwarding                                |
| vrf                   | (Optional) display info per VRF                |
| <i>vrf-name</i>       | (Optional) VRF name                            |
| <i>vrf-known-name</i> | (Optional) Known vrf name                      |
| vrf-all               | (Optional) Display information for all VRFs    |
| table                 | (Optional) display info per vpn-id             |
| <i>table_id</i>       | (Optional) table number                        |
| label-space           | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED      |
| <i>label-space-id</i> | (Optional) label space id                      |
| label                 | (Optional) mpls labels                         |
| <i>label-id</i>       | (Optional) mpls label value                    |
| <i>prefix</i>         | (Optional) Labels for single exact match route |
| module                | (Optional) slot                                |
| <i>module</i>         | (Optional) slot number                         |
| stats                 | (Optional) Label Statistics                    |
| implicit              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED      |
| platform              | (Optional) Display platform information        |
| <i>__readonly__</i>   | (Optional)                                     |
| TABLE_mpls            | (Optional)                                     |
| <i>label</i>          | (Optional) mpls label value                    |

|                         |   |
|-------------------------|---|
| <i>TABLE_table_id</i>   | (Optional) Table table id                   |
| <i>out-table-id</i>     | (Optional) Output table-id                  |
| <i>fec</i>              | (Optional) Prefix/Tunnel ID                 |
| <i>out-ip</i>           | (Optional) Output Next Hop                  |
| <i>out-intf</i>         | (Optional) Output Interface                 |
| <i>out-label</i>        | (Optional) Output Label                     |
| <i>out-op</i>           | (Optional) Output Label op                  |
| <i>hh</i>               | (Optional) Hardware Handle                  |
| <i>ref-count</i>        | (Optional) Ref Count                        |
| <i>in-pkts</i>          | (Optional) Label Input Packet Stats         |
| <i>in-bytes</i>         | (Optional) Label Input Bytes Stats          |
| <i>swap-out-pkts</i>    | (Optional) Label Swap Output Packet Stats   |
| <i>swap-out-bytes</i>   | (Optional) Label Swap Output Bytes Stats    |
| <i>tunnel-out-pkts</i>  | (Optional) Label Tunnel Output Packet Stats |
| <i>tunnel-out-bytes</i> | (Optional) Label Tunnel Output Bytes Stats  |

**Command Mode**

- /exec

## show forwarding mpls drop-stats

```
show forwarding mpls drop-stats [ platform | label0-fwd-stats ] [ __readonly__ [ { TABLE_drop_stats
<unit-number> <pkts> <bytes> } ] ]
```

### Syntax Description

|                    |  |
|--------------------|--|
| show               | show   |
| forwarding         | forwarding                                     |
| mpls               | mpls forwarding                                |
| drop-stats         | MPLS dropped packets                           |
| platform           | (Optional) command to display stats per chip   |
| label0-fwd-stats   | (Optional) command to display stats for label0 |
| __readonly__       | (Optional)                                     |
| TABLE_drop_stats   | (Optional) Table for mpls drop stats           |
| <i>unit-number</i> | (Optional) unit number                         |
| <i>pkts</i>        | (Optional) Label Packet Stats                  |
| <i>bytes</i>       | (Optional) Label Bytes Stats                   |

### Command Mode

- /exec

## show forwarding mpls ecmp

```
show forwarding mpls ecmp [ module <module> ] [ platform ] [ __readonly__ [ { TABLE_ecmp [ <type> ]
[ <num_paths> ] [ <ip_paths> ] [ <mpls_paths> ] [ <ecmp_hash> ] [ <holder> ] [ <refcount> ] [ <hw_index>
] [ <fec> ] [ { TABLE_ecmp_paths [ <out-intf> ] [ <out-ip> ] [ <label-info> ] [ <refcount> ] [ <hh> ] [
<ecmp-type> ] } } } ] ] ]
```

### Syntax Description

|                   |                             |
|-------------------|-----------------------------|
| show              | show                        |
| forwarding        | display fib information     |
| mpls              | mpls forwarding             |
| ecmp              | mpls ecmps                  |
| module            | (Optional) slot             |
| <i>module</i>     | (Optional) slot number      |
| platform          | (Optional) show pd info     |
| __readonly__      | (Optional)                  |
| TABLE_ecmp        | (Optional)                  |
| <i>type</i>       | (Optional) ecmp type        |
| <i>num_paths</i>  | (Optional) No of paths      |
| <i>ip_paths</i>   | (Optional) No of ip paths   |
| <i>mpls_paths</i> | (Optional) No of mpls paths |
| <i>ecmp_hash</i>  | (Optional) ecmp hash        |
| <i>holder</i>     | (Optional) holder bitmap    |
| <i>refcount</i>   | (Optional) refcount         |
| <i>hw_index</i>   | (Optional) Hw index         |
| <i>fec</i>        | (Optional) FEC              |
| TABLE_ecmp_paths  | (Optional)                  |
| <i>out-intf</i>   | (Optional) Output Interface |
| <i>out-ip</i>     | (Optional) Output Next Hop  |
| <i>label-info</i> | (Optional) label info       |
| <i>refcount</i>   | (Optional) refcount         |

|                  |                                      |
|------------------|--------------------------------------|
| <i>hh</i>        | (Optional) Hardware Handle           |
| <i>ecmp-type</i> | (Optional) type for per path in ecmp |

**Command Mode**

- /exec

## show forwarding mpls eompls

```
show forwarding mpls eompls [ peers { <addr> | all } ] [ __readonly__ [ { TABLE_peer_ip <peer_ip>
<peer_id> <vlan_bmp> <rx_pkts> <rx_bytes> } ] ]
```

### Syntax Description

|                 |  |
|-----------------|--|
| show            | Show                                       |
| forwarding      | Forwarding information                     |
| mpls            | mpls forwarding                            |
| eompls          | eompls                                     |
| peers           | (Optional) nve peers                       |
| <i>addr</i>     | (Optional) peer ipaddress                  |
| all             | (Optional) Display peer info for all peers |
| __readonly__    | (Optional)                                 |
| TABLE_peer_ip   | (Optional)                                 |
| <i>peer_ip</i>  | (Optional) peer address                    |
| <i>peer_id</i>  | (Optional) peer id                         |
| <i>vlan_bmp</i> | (Optional) vlan bitmap                     |
| <i>rx_pkts</i>  | (Optional) packet stats                    |
| <i>rx_bytes</i> | (Optional) bytes stats                     |

### Command Mode

- /exec



## show forwarding mpls eompls ir

```
show forwarding mpls eompls ir { [ vlan [ all | <vlan_id> ] ] | [ peer [ all | <peer_ip> ] ] } [ __readonly__ [ {
TABLE_VLAN <vlan_id> <vni> <ifindex> <plt_space> <bitmap> <peer> + <marked> + } ] [ {
TABLE_ONE_PEER <peer> <id> <repl_id> <oif> <path_intf> + <vcount> <vlan_id> + <plt_space> } ] ]
```

### Syntax Description

|                  |  |
|------------------|--|
| show             | Show running system information        |
| forwarding       | Forwarding information                 |
| mpls             | mpls                                   |
| eompls           | eompls                                 |
| ir               | ir                                     |
| vlan             | (Optional) vlans all                   |
| all              | (Optional) all                         |
| <i>vlan_id</i>   | (Optional) vlan-id                     |
| peer             | (Optional) peers-all                   |
| all              | (Optional) all                         |
| <i>peer_ip</i>   | (Optional) show detailed info for peer |
| __readonly__     | (Optional)                             |
| TABLE_VLAN       | (Optional) vlan peer ids table         |
| <i>vlan_id</i>   | (Optional) vlan id                     |
| <i>vni</i>       | (Optional) vni                         |
| <i>ifindex</i>   | (Optional) ifindex                     |
| <i>plt_space</i> | (Optional) platform space              |
| <i>bitmap</i>    | (Optional) peer bitmap                 |
| <i>peer</i>      | (Optional) peer_address                |
| <i>marked</i>    | (Optional) marked                      |
| TABLE_ONE_PEER   | (Optional) vlan peer ids table         |
| <i>peer</i>      | (Optional) vlan id                     |
| <i>id</i>        | (Optional) vni                         |
| <i>repl_id</i>   | (Optional) repli id                    |

|                  |                           |
|------------------|---------------------------|
| <i>oif</i>       | (Optional) ifindex        |
| <i>path_intf</i> | (Optional) pathintf name  |
| <i>vcount</i>    | (Optional) vlan count     |
| <i>vlan_id</i>   | (Optional) vlanid         |
| <i>plt_space</i> | (Optional) platform space |

**Command Mode**

- /exec

## show forwarding mpls srte module

```
show forwarding mpls srte module [ <module> ] [ __readonly__ [ { TABLE_srte <table-id> [ {
TABLE_binding_label <binding-label> <parent-table-id> <parent-vobj-id> [ { TABLE_prefix <prefix> <vrf>
} ] ] ] } ] ] ] ] ] ] ] ]
```

### Syntax Description

|                        |                            |
|------------------------|----------------------------|
| show                   | Show                       |
| forwarding             | Forwarding information     |
| mpls                   | mpls forwarding            |
| srte                   | SR Traffic Engineering     |
| module                 | slot                       |
| <i>module</i>          | (Optional) slot number     |
| <i>__readonly__</i>    | (Optional)                 |
| TABLE_srte             | (Optional)                 |
| <i>table-id</i>        | (Optional) table id        |
| TABLE_binding_label    | (Optional)                 |
| <i>binding-label</i>   | (Optional) binding label   |
| <i>parent-table-id</i> | (Optional) parent table id |
| <i>parent-vobj-id</i>  | (Optional) parent vobj id  |
| TABLE_prefix           | (Optional)                 |
| <i>prefix</i>          | (Optional) prefix          |
| <i>vrf</i>             | (Optional) vrf             |

### Command Mode

- /exec

# show forwarding mpls summary

```
show forwarding mpls summary [ module <module> ] [ __readonly__ [ { TABLE_labels <space> <count>
} <total_deagg_labels> <feature_evpn_status> ] ]
```

## Syntax Description

|                            |                                |
|----------------------------|--------------------------------|
| show                       | show                           |
| forwarding                 | display fib information        |
| mpls                       | mpls forwarding                |
| summary                    | summary                        |
| module                     | (Optional) slot                |
| <i>module</i>              | (Optional) slot number         |
| <i>__readonly__</i>        | (Optional)                     |
| TABLE_labels               | (Optional)                     |
| <i>space</i>               | (Optional) label space         |
| <i>count</i>               | (Optional) number of labels    |
| <i>total_deagg_labels</i>  | (Optional) total deagg labels  |
| <i>feature_evpn_status</i> | (Optional) feature evpn status |

## Command Mode

- /exec

# show forwarding multicast-sr loopback interface

show forwarding multicast-sr loopback interface [ *\_\_readonly\_\_* [ *<port-num>* ] ]

## Syntax Description

|                     |                                       |
|---------------------|---------------------------------------|
| show                |                                       |
| forwarding          | display fib information               |
| multicast-sr        | multicast service reflect information |
| interface           | loopback interface                    |
| loopback            | loopback interface                    |
| <i>__readonly__</i> | (Optional)                            |
| <i>port-num</i>     | (Optional) Port number                |

## Command Mode

- /exec

## show forwarding multicast outgoing-interface-list

```
show forwarding multicast outgoing-interface-list { L2 | L3 | vxlan-encap | vxlan-ir-dci-encap } [ platform ]
[ module <module> ] [ <index> ] [ __readonly__ [ <refcount> ] [ <total_l2_oiflist> ] [ <total_l3_oiflist> ] [
<slot> ] [ TABLE_MCAST_OIF_INFO <oiflist_idx> [ <vlan> ] [ <num_oif> ] [
TABLE_MCAST_OIF_INTF_INFO [ <intf> ] [ <dvmf> ] ] [ <encap_id> ] <hw_oiflist_idx> [ <mcidx> ] ] ]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      |  |
| forwarding                | Forwarding information                   |
| multicast                 | Multicast IPv4 information               |
| outgoing-interface-list   | show outgoing interface list info        |
| L2                        | Layer 2 oiflist                          |
| L3                        | Layer 3 oiflist                          |
| vxlan-encap               | vxlan-encap oiflist                      |
| vxlan-ir-dci-encap        | vxlan-ir-dci-encap oiflist               |
| platform                  | (Optional) Display PI/PD                 |
| module                    | (Optional) slot                          |
| <i>module</i>             | (Optional) slot number                   |
| <i>index</i>              | (Optional) Outgoing Interface List Index |
| <i>__readonly__</i>       | (Optional)                               |
| <i>refcount</i>           | (Optional) Reference count               |
| <i>total_l2_oiflist</i>   | (Optional) total l2 oiflist              |
| <i>total_l3_oiflist</i>   | (Optional) total l3 oiflist              |
| <i>slot</i>               | (Optional) slot number                   |
| TABLE_MCAST_OIF_INFO      | (Optional) Mcast OIF Info                |
| <i>oiflist_idx</i>        | (Optional) Outgoing Interface List Index |
| <i>vlan</i>               | (Optional) Vlan id                       |
| <i>num_oif</i>            | (Optional) Number of outgoing interfaces |
| TABLE_MCAST_OIF_INTF_INFO | (Optional) OIF Interfaces                |
| <i>intf</i>               | (Optional) OIF name                      |

|                       |   |
|-----------------------|---|
| <i>dvif</i>           | (Optional) DVIF                                   |
| <i>encap_id</i>       | (Optional) encap_id                               |
| <i>hw_oiflist_idx</i> | (Optional) Hardware Outgoing Interface List Index |
| <i>mcidx</i>          | (Optional) MC Index                               |

**Command Mode**

- /exec

## show forwarding multicast route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | all } | table <table_id> ] [ ipv4 ] multicast route [
platform ] { [ group { <gaddr> [ <mask> ] | <gprefix> } | source { <saddr> [ <smask> ] | <sprefix> } | module
<module> | vrf { <vrf-name> | <vrf-known-name> | all } ] + | summary [ module <module> | vrf { <vrf-name>
| <vrf-known-name> | all } ] + } [ _readonly_ [ <table_type> ] [ <vrfname> ] [ <table_id> ] [ <num_routes>
<num_starg_routes> <num_sg_routes> <num_gprefix_routes> ] [ <num_groups> ] [ <num_sources> ] [
<num_prefix_insert_fail> ] [ [ TABLE_MROUTE_INFO <mcast_addr> [ <src_len> <grp_len> ] [ <df_ordinal>
] [ <rpfif> ] [ <rpf_ifindex> ] <flag> [ <flag_value> ] <route_pkts> <route_bytes> <oiflist_id> <oif_count>
[ <refcount> ] <oiflist_flag> [ TABLE_OIF_INFO <oifindex> [ TABLE_MCAST_VLAN_INFO [ <vlan>
] [ TABLE_MCAST_OIF_INFO [ <oifname> ] [ <dviif> ] ] ] [ <platform_id> ] [ <encap_id> ] [ <hw_index>
] [ <oif_pkts> <oif_bytes> ] ] ] ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  |  |
| forwarding            | Forwarding information                         |
| ipv4                  | (Optional) ipv4                                |
| multicast             | Multicast IPv4 information                     |
| route                 | Mcast route information                        |
| platform              | (Optional) Platform Details                    |
| table                 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED      |
| <i>table_id</i>       | (Optional) table number                        |
| vrf                   | (Optional) display info per VRF                |
| <i>vrf-name</i>       | (Optional) VRF name                            |
| <i>vrf-known-name</i> | (Optional) Known VRF name                      |
| all                   | (Optional) Display information for all VRFs    |
| group                 | (Optional) Multicast IPv4 Group specific info  |
| <i>gaddr</i>          | (Optional) Multicast IPv4 Group Address        |
| <i>mask</i>           | (Optional) Multicast IPv4 Group Address mask   |
| <i>gprefix</i>        | (Optional) Multicast IPv4 Group Prefix         |
| source                | (Optional) Multicast IPv4 Source specific info |
| <i>saddr</i>          | (Optional) Multicast IPv4 Source Address       |
| <i>smask</i>          | (Optional) Multicast IPv4 Source Address mask  |
| <i>sprefix</i>        | (Optional) Multicast IPv4 Source Prefix        |



|                               |   |
|-------------------------------|---|
| <i>summary</i>                | display route counts                                      |
| <i>module</i>                 | (Optional) slot   |
| <i>module</i>                 | (Optional) slot number                                    |
| <i>__readonly__</i>           | (Optional)  |
| <i>table_type</i>             | (Optional) Table Type                                     |
| <i>vrfname</i>                | (Optional) VRF name                                       |
| <i>table_id</i>               | (Optional) Table ID                                       |
| <i>num_routes</i>             | (Optional) Number of routes                               |
| <i>num_starg_routes</i>       | (Optional) Number of (*,G) routes                         |
| <i>num_sg_routes</i>          | (Optional) Number of (S,G) routes                         |
| <i>num_gprefix_routes</i>     | (Optional) Number of (*,G-prefix) routes                  |
| <i>num_groups</i>             | (Optional) Number of group entries in the table           |
| <i>num_prefix_insert_fail</i> | (Optional) Prefix insert fail count                       |
| <i>num_sources</i>            | (Optional) Number of (S, G) entries for the group address |
| TABLE_MROUTE_INFO             | (Optional) Mroute info                                    |
| <i>mcast_addr</i>             | (Optional) Mcast address                                  |
| <i>src_len</i>                | (Optional) Source Address Mask                            |
| <i>grp_len</i>                | (Optional) Group address Mask                             |
| <i>df_ordinal</i>             | (Optional) DF ordinal                                     |
| <i>rpfif</i>                  | (Optional) RPF interface                                  |
| <i>rpf_ifindex</i>            | (Optional) RPF Interface ifIndex                          |
| <i>flag</i>                   | (Optional) Route type flag                                |
| <i>flag_value</i>             | (Optional) hex value of route flag                        |
| <i>route_pkts</i>             | (Optional) Route packet count                             |
| <i>route_bytes</i>            | (Optional) Route bytes                                    |
| <i>oiflist_id</i>             | (Optional) OIF list Identifier                            |
| <i>oif_count</i>              | (Optional) Number of OIFs                                 |
| <i>oiflist_flag</i>           | (Optional) OIF List flag                                  |
| <i>refcount</i>               | (Optional) OIF list Reference Count                       |

|                       |                                  |
|-----------------------|----------------------------------|
| TABLE_OIF_INFO        | (Optional) OIF Info              |
| <i>oifindex</i>       | (Optional) OIF Interface ifIndex |
| TABLE_MCAST_VLAN_INFO | (Optional) Vlan Interfaces       |
| <i>vlan</i>           | (Optional) Vlan id               |
| TABLE_MCAST_OIF_INFO  | (Optional) Oif Interfaces        |
| <i>oifname</i>        | (Optional) OIF Interface name    |
| <i>dvif</i>           | (Optional) DVIF                  |
| <i>platform_id</i>    | (Optional) Platform-index        |
| <i>encap_id</i>       | (Optional) Encap ID              |
| <i>hw_index</i>       | (Optional) Hardware index        |
| <i>oif_pkts</i>       | (Optional) OIF packets           |
| <i>oif_bytes</i>      | (Optional) OIF bytes             |

**Command Mode**

- /exec

## show forwarding nve l2 ingress-replication-peers

```
show forwarding nve l2 ingress-replication-peers [ ipv4 <peer_ip> | ipv6 <v6_peer_ip> ] + [ __readonly__ [
{ TABLE_VLAN <vlan_id> <vni> <ifindex> <plt_space> <peer> + } { TABLE_PSS_VLAN <vlan_pss_id>
<VNI> <vtep> <peercnt> { <pss_peer> <marked> } + } ] + [ [ <peer> <id> <repl_id> <oif> <hash_algo>
<path_intf> + <vcount> <vlan_id> + [ <path> <hash> <flags> <nh> <intf> + ] ] [ <pss_peer> <pss_id>
<pss_repl_id> <pss_oif> <pss_hash_algo> <pss_path_intf> + <pss_vcount> <vlan_pss_id> + [ <pss_path>
<pss_hash> <pss_flags> <pss_nh> <pss_intf> + ] ] ] ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | show                                    |
| forwarding                | display fib information                 |
| nve                       | nve related info                        |
| l2                        | L2 info                                 |
| ingress-replication-peers | ingress replication peer info           |
| ipv4                      | (Optional) ipv4 peer                    |
| <i>peer_ip</i>            | (Optional) show detailed info of a peer |
| ipv6                      | (Optional) ipv6 peer                    |
| __readonly__              | (Optional)                              |
| TABLE_VLAN                | (Optional) vlan peer ids table          |
| <i>vlan_id</i>            | (Optional) vlan id                      |
| <i>vni</i>                | (Optional) vni                          |
| <i>ifindex</i>            | (Optional) ifindex                      |
| <i>plt_space</i>          | (Optional) platform space               |
| <i>peer</i>               | (Optional) peer_address                 |
| TABLE_PSS_VLAN            | (Optional) vlan-peer in pss             |
| <i>vlan_pss_id</i>        | (Optional) pss_peer_id                  |
| VNI                       | (Optional) vni                          |
| <i>vtep</i>               | (Optional) vtep                         |
| <i>peercnt</i>            | (Optional) peer count                   |
| <i>pss_peer</i>           | (Optional) peer address                 |
| <i>marked</i>             | (Optional) marked                       |

|                      |                            |
|----------------------|----------------------------|
| <i>peer</i>          | (Optional) peer            |
| <i>id</i>            | (Optional) id              |
| <i>repl_id</i>       | (Optional) repl_id         |
| <i>oif</i>           | (Optional) oif             |
| <i>path_intf</i>     | (Optional) path intf name  |
| <i>hash_algo</i>     | (Optional) hash algo used  |
| <i>vcount</i>        | (Optional) vlan count      |
| <i>vlan_id</i>       | (Optional) vlan id         |
| <i>path</i>          | (Optional) ecmp path       |
| <i>hash</i>          | (Optional) ecmp hash       |
| <i>flags</i>         | (Optional) ecmp flags      |
| <i>nh</i>            | (Optional) ecmp nh         |
| <i>intf</i>          | (Optional) ecmp interfaces |
| <i>pss_peer</i>      | (Optional) peer            |
| <i>pss_id</i>        | (Optional) id              |
| <i>pss_repl_id</i>   | (Optional) repl_id         |
| <i>pss_oif</i>       | (Optional) oif             |
| <i>pss_path_intf</i> | (Optional) path intf name  |
| <i>pss_hash_algo</i> | (Optional) hash algo used  |
| <i>pss_vcount</i>    | (Optional) vlan count      |
| <i>vlan_pss_id</i>   | (Optional) vlan id         |
| <i>pss_path</i>      | (Optional) pss path        |
| <i>pss_hash</i>      | (Optional) pss hash        |
| <i>pss_flags</i>     | (Optional) pss flags       |
| <i>pss_nh</i>        | (Optional) pss nh          |
| <i>pss_intf</i>      | (Optional) pss intf        |

**Command Mode**

- /exec

## show forwarding nve l3 adjacency tunnel

```
show forwarding nve l3 adjacency tunnel [ <tunnel_id> | all ] [ bd <bd_id> | detail | module <module> | table
<table_id> ] [ __readonly__ TABLE_nvel3adj <tunnel_id> <bd_id> <table_id> <VNI> <Drop> <RefCount>
<Origin> <State> <Del> [ <sw_index> <hw_index0> <hw_index1> <hw_index2> ] ]
```

### Syntax Description

|                     |  |
|---------------------|--|
| show                |  |
| forwarding          | display fib information                      |
| nve                 | nve related info                             |
| l3                  | Layer 3                                      |
| adjacency           | Adjacency info                               |
| tunnel              | VXLAN tunnel                                 |
| <i>tunnel_id</i>    | (Optional) tunnel_id                         |
| all                 | (Optional) show adjacency info for all peers |
| bd                  | (Optional) BD info                           |
| <i>bd_id</i>        | (Optional) bd id                             |
| detail              | (Optional) Show detailed information         |
| module              | (Optional) Slot/module                       |
| <i>module</i>       | (Optional) Slot/module number                |
| table               | (Optional) Tenant table-id                   |
| <i>table_id</i>     | (Optional) tenant table-id                   |
| <i>__readonly__</i> | (Optional)                                   |
| TABLE_nvel3adj      | (Optional)                                   |
| <i>tunnel_id</i>    | (Optional) tunnel_id                         |
| <i>bd_id</i>        | (Optional) bd id                             |
| <i>table_id</i>     | (Optional) tenant table-id                   |
| VNI                 | (Optional) vni                               |
| Drop                | (Optional) Drop                              |
| RefCount            | (Optional) Refcount                          |
| Origin              | (Optional) origin                            |

|                  |                  |
|------------------|------------------|
| <i>State</i>     | (Optional) state |
| <i>Del</i>       | (Optional) del   |
| <i>sw_index</i>  | (Optional)       |
| <i>hw_index0</i> | (Optional)       |
| <i>hw_index1</i> | (Optional)       |
| <i>hw_index2</i> | (Optional)       |

**Command Mode**

- /exec

## show forwarding nve l3 adjacency v6-tunnel

```
show forwarding nve l3 adjacency v6-tunnel [ <peer-ip> | all ] [ bd <bd_id> | detail | module <num> | table
<table_id> ] [ __readonly__ TABLE_nvel3adj <peer-ip> <bd_id> <table_id> <VNI> <Drop> <Refcount>
<Origin> <State> <Del> <sw_index> <hw_index0> <hw_index1> <hw_index2> ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                |   |
| forwarding          | display fib information                 |
| nve                 | nve related info                        |
| l3                  | Layer 3                                 |
| adjacency           | Adjacency info                          |
| v6-tunnel           | VXLAN V6 tunnel                         |
| all                 | (Optional) Show adjacency for all peers |
| bd                  | (Optional) BD info                      |
| <i>bd_id</i>        | (Optional) bd id                        |
| detail              | (Optional) Show detailed information    |
| module              | (Optional) Slot/module                  |
| <i>num</i>          | (Optional) Slot/module number           |
| table               | (Optional) Tenant table-id              |
| <i>table_id</i>     | (Optional) tenant table-id              |
| <i>__readonly__</i> | (Optional)                              |
| TABLE_nvel3adj      | (Optional)                              |
| <i>bd_id</i>        | (Optional) bd id                        |
| <i>table_id</i>     | (Optional) tenant table-id              |
| <i>VNI</i>          | (Optional) vni                          |
| <i>Drop</i>         | (Optional) Drop                         |
| <i>Refcount</i>     | (Optional) Refcount                     |
| <i>Origin</i>       | (Optional) origin                       |
| <i>State</i>        | (Optional) state                        |
| <i>Del</i>          | (Optional) del                          |

|                  |            |
|------------------|------------|
| <i>sw_index</i>  | (Optional) |
| <i>hw_index0</i> | (Optional) |
| <i>hw_index1</i> | (Optional) |
| <i>hw_index2</i> | (Optional) |

**Command Mode**

- /exec



## show forwarding nve l3 ecmp

```
show forwarding nve l3 ecmp [ __readonly__ { TABLE_nve13ecmp <hw_index> <ecmp_hash> <num_paths>
<table_id> <flags> <adj_flags> <ref_count> { TABLE_tunnel_info [ <tunnel_id> | <tunnel_ip> ] <segment_id>
} <hw_ecmp_index0> <hw_ecmp_index1> <hw_ecmp_index2> } ]
```

### Syntax Description

|                       |                                     |
|-----------------------|-------------------------------------|
| show                  |                                     |
| forwarding            | display fib information             |
| nve                   | nve related info                    |
| l3                    | Layer 3                             |
| ecmp                  | nve ecmp info                       |
| <i>__readonly__</i>   | (Optional)                          |
| TABLE_nve13ecmp       | (Optional) nve l3 ecmp table        |
| <i>hw_index</i>       | (Optional) hw_index address pointer |
| <i>ecmp_hash</i>      | (Optional) ecmp hash                |
| <i>num_paths</i>      | (Optional) numer of members in ECMP |
| <i>table_id</i>       | (Optional) table id                 |
| <i>flags</i>          | (Optional) flags                    |
| <i>adj_flags</i>      | (Optional) adj flags                |
| <i>ref_count</i>      | (Optional) num of references        |
| TABLE_tunnel_info     | (Optional)                          |
| <i>tunnel_id</i>      | (Optional) tunnel id                |
| <i>tunnel_ip</i>      | (Optional) v6 tunnel ip             |
| <i>segment_id</i>     | (Optional) segment id               |
| <i>hw_ecmp_index0</i> | (Optional) HW ECMP Index Unit 0     |
| <i>hw_ecmp_index1</i> | (Optional) HW ECMP Index Unit 1     |
| <i>hw_ecmp_index2</i> | (Optional) HW ECMP Index Unit 2     |

### Command Mode

- /exec

## show forwarding nve l3 peers

```
show forwarding nve l3 peers [ peers <peer_id> | tunnel <tunnel_id> | detail | module <module> ] + [
__readonly__ { TABLE_l3peers <tunnel_id> <peer_id> <peer_address> <interface> <rmac> <origin> <state>
<del> <count> } ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | show  |
| forwarding          | display fib information                     |
| nve                 | nve related info                            |
| l3                  | Layer 3                                     |
| peers               | nve peers                                   |
| <i>peer_id</i>      | (Optional) nve peer-id                      |
| tunnel              | (Optional) VXLAN tunnel                     |
| <i>tunnel_id</i>    | (Optional) Unique identifier for the tunnel |
| detail              | (Optional) Show detailed information        |
| module              | (Optional) Slot/module                      |
| <i>module</i>       | (Optional) Slot/module number               |
| <i>__readonly__</i> | (Optional)                                  |
| TABLE_l3peers       | (Optional) all l3 nve peers                 |
| <i>tunnel_id</i>    | (Optional) tunnel_id                        |
| <i>peer_id</i>      | (Optional) peer_id                          |
| <i>peer_address</i> | (Optional) peer_address                     |
| <i>interface</i>    | (Optional) interface                        |
| <i>rmac</i>         | (Optional) rmac                             |
| <i>origin</i>       | (Optional) origin                           |
| <i>state</i>        | (Optional) state                            |
| <i>del</i>          | (Optional) del                              |
| <i>count</i>        | (Optional) count                            |

### Command Mode

- /exec

## show forwarding nve underlay-interfaces

```
show forwarding nve underlay-interfaces [ __readonly__ { <broadcast_status> <broadcast_level>
<multicast_status> <multicast_level> <unicast_status> <unicast_level> <no_of_uplink_interfaces> } [ {
TABLE_uplinks <ifindex> <peerid_bmp> <is_dci> [ <phy_if> ] } ] ]
```

### Syntax Description

|                                |  |
|--------------------------------|--|
| show                           | show                                   |
| forwarding                     | display fib information                |
| nve                            | NVE related info                       |
| underlay-interfaces            | underlay interfaces info               |
| <i>__readonly__</i>            | (Optional)                             |
| <i>broadcast_status</i>        | (Optional) status                      |
| <i>broadcast_level</i>         | (Optional) broadcast level             |
| <i>multicast_status</i>        | (Optional) multicast status            |
| <i>multicast_level</i>         | (Optional) multicast level             |
| <i>unicast_status</i>          | (Optional) unicast status              |
| <i>unicast_level</i>           | (Optional) unicast level               |
| <i>no_of_uplink_interfaces</i> | (Optional) Number of uplink interfaces |
| TABLE_uplinks                  | (Optional)                             |
| <i>ifindex</i>                 | (Optional) uplink ifindex              |
| <i>phy_if</i>                  | (Optional) uplink physical interface   |
| <i>peerid_bmp</i>              | (Optional) peerid bitmap               |
| <i>is_dci</i>                  | (Optional) dci flag                    |

### Command Mode

- /exec

# show forwarding otv

```
show forwarding otv <intf> [ peer <peer-id> ] [ module <module> ] [ __readonly__ <vlan> <peer-id>
<peer_vlan_count><tunnel_ifindex><tunnel_ifname> ]
```

## Syntax Description

|                     |                                  |
|---------------------|----------------------------------|
| show                |                                  |
| forwarding          | fib information                  |
| otv                 | overlay-transport-virtualization |
| <i>intf</i>         | overlay interface                |
| peer                | (Optional) overlay peer          |
| <i>peer-id</i>      | (Optional) overlay peer-id       |
| module              | (Optional) slot                  |
| <i>module</i>       | (Optional) slot number           |
| <i>__readonly__</i> | (Optional)                       |
| <i>vlan</i>         | (Optional) Vlan information      |
| <i>peer-id</i>      | (Optional) peer-id               |

## Command Mode

- /exec

## show forwarding security group-tag

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ table <table_id> | vlan <vlan_id> ] [
ipv4 ] security group-tag [ <addr> ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all>
} ] + [ __readonly__ TABLE_sgt_vrf { <tid> <px-count> [ TABLE_sgt_prefix [ <ipa> ] [ <tag> ] [ <tv> ]
} ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  |   |
| forwarding            | display fib information                     |
| vrf                   | (Optional) display info per VRF             |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| vrf-all               | (Optional) Display information for all VRFs |
| table                 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| <i>table_id</i>       | (Optional) table number                     |
| vlan                  | (Optional) vlan                             |
| <i>vlan_id</i>        | (Optional) vlan number                      |
| ipv4                  | (Optional) ipv4                             |
| security              | display IP security information             |
| group-tag             | ip_address->security_group_tag              |
| <i>addr</i>           | (Optional) specific ip address              |
| module                | (Optional) slot                             |
| <i>module</i>         | (Optional) slot number                      |
| __readonly__          | (Optional)                                  |
| TABLE_sgt_vrf         | (Optional) vrf table                        |
| <i>tid</i>            | (Optional) table identifier                 |
| <i>px-count</i>       | (Optional) total prefix count in VRF        |
| TABLE_sgt_prefix      | (Optional) all xml prefix entries           |
| <i>ipa</i>            | (Optional) ip address                       |
| <i>tag</i>            | (Optional) security group tag               |

|           |                      |
|-----------|----------------------|
| <i>tv</i> | (Optional) sgt valid |
|-----------|----------------------|

**Command Mode**

- /exec

## show forwarding security mac

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ table <table_id> ] [ ipv4 ] security
mac [ <addr> ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] + [ __readonly__
TABLE_sec_vrf { <tid> <pfx-count> [ TABLE_sec_prefix <ipa> <mac> <p> <m> <v> <intf> } ] }
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  |   |
| forwarding            | display fib information                     |
| vrf                   | (Optional) display info per VRF             |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| vrf-all               | (Optional) Display information for all VRFs |
| table                 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| <i>table_id</i>       | (Optional) table number                     |
| ipv4                  | (Optional) ipv4                             |
| security              | display IP security information             |
| mac                   | ip_address->mac_address                     |
| <i>addr</i>           | (Optional) specific ip address              |
| module                | (Optional) slot                             |
| <i>module</i>         | (Optional) slot number                      |
| __readonly__          | (Optional)                                  |
| TABLE_sec_vrf         | (Optional) security vrf table               |
| <i>tid</i>            | (Optional) table identifier                 |
| <i>pfx-count</i>      | (Optional) total prefix count in VRF        |
| TABLE_sec_prefix      | (Optional) all xml security prefix entries  |
| <i>ipa</i>            | (Optional) ip address                       |
| <i>mac</i>            | (Optional) mac address                      |
| <i>m</i>              | (Optional) 1 => ip->mac binding             |
| <i>v</i>              | (Optional) 1 => ip->vlan binding            |
| <i>p</i>              | (Optional) 1 => ip->port binding            |

|             |                               |
|-------------|-------------------------------|
| <i>intf</i> | (Optional) ip->port interface |
|-------------|-------------------------------|

**Command Mode**

- /exec



# show forwarding trace

show forwarding trace [ clear ] [ module <module> ] [ \_\_readonly\_\_ <op> ]

## Syntax Description

|               |                                   |
|---------------|-----------------------------------|
| show          |                                   |
| forwarding    | display fib information           |
| trace         | display trace buffer              |
| clear         | (Optional) clear the trace buffer |
| module        | (Optional) slot                   |
| <i>module</i> | (Optional) slot number            |
| __readonly__  | (Optional)                        |
| <i>op</i>     | (Optional) output                 |

## Command Mode

- /exec

# show forwarding trace profile

show forwarding trace profile

## Syntax Description

|            |   |
|------------|---|
| show       |   |
| forwarding | display fib information                   |
| trace      | display trace buffer                      |
| profile    | show the collection profiling information |

## Command Mode

- /exec

# show forwarding trace profile funcstats

show forwarding trace profile funcstats [ enable | disable ] [ module <module> ] [ \_\_readonly\_\_ <op> ]

## Syntax Description

|               |   |
|---------------|---|
| show          |   |
| forwarding    | display fib information                   |
| trace         | display trace buffer                      |
| profile       | show the collection profiling information |
| funcstats     | function statistics                       |
| enable        | (Optional) enable function statistics     |
| disable       | (Optional) disable function statistics    |
| module        | (Optional) slot                           |
| <i>module</i> | (Optional) slot number                    |
| __readonly__  | (Optional)                                |
| <i>op</i>     | (Optional) output                         |

## Command Mode

- /exec

## show fte event

```
show fte event [ name ] [ { <eventname> } ] [ __readonly__ <event> <description> <use_count>
<latency_threshold> <latency_unit> <analytics_changed_flow_count> <latency_flow_count> ]
```

### Syntax Description

|                                     |  |
|-------------------------------------|--|
| show                                | Show running system information                            |
| fte                                 | Show FTE information                                       |
| event                               | Show Event Configuration                                   |
| name                                | (Optional) Show the configuration for a specific FTE Event |
| <i>eventname</i>                    | (Optional) Specify a event                                 |
| <i>__readonly__</i>                 | (Optional)   |
| <i>event</i>                        | (Optional)   |
| <i>description</i>                  | (Optional)   |
| <i>use_count</i>                    | (Optional)   |
| <i>latency_threshold</i>            | (Optional)   |
| <i>latency_unit</i>                 | (Optional)   |
| <i>analytics_changed_flow_count</i> | (Optional)   |
| <i>latency_flow_count</i>           | (Optional)   |

### Command Mode

- /exec

## show fte exporter

```
show fte exporter [ name ] [ <exportername> ] [ __readonly__ <exporter> <description> <dest> <vrf> <vrf_id>
<vrf_resolved> <dest_udp> <source_intf> <source_ip> <exporter-id> ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information         |
| fte                 | Show FTE information                    |
| exporter            | Show FTE Exporter Configuration         |
| name                | (Optional) Show a specific FTE Exporter |
| <i>exportername</i> | (Optional) Specify an exporter          |
| <i>__readonly__</i> | (Optional)                              |
| <i>exporter</i>     | (Optional)                              |
| <i>description</i>  | (Optional)                              |
| <i>dest</i>         | (Optional)                              |
| <i>vrf</i>          | (Optional)                              |
| <i>vrf_id</i>       | (Optional)                              |
| <i>vrf_resolved</i> | (Optional)                              |
| <i>dest_udp</i>     | (Optional)                              |
| <i>source_intf</i>  | (Optional)                              |
| <i>source_ip</i>    | (Optional)                              |
| <i>exporter-id</i>  | (Optional)                              |

### Command Mode

- /exec

# show fte monitor

```
show fte monitor [ name ] [ <monitorname> [ cache [ detailed ] ] ] [ __readonly__ <monitor> <use_count>
<description> <record> <event> <exporter1> <exporter2> <bucket_id> <src_addr> <dest_addr> ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information           |
| fte                 | Show FTE information                      |
| monitor             | Show Monitor Configuration                |
| name                | (Optional) Show a specific FTE Monitor    |
| <i>monitorname</i>  | (Optional) Specify a monitor              |
| cache               | (Optional) Flow monitor cache contents    |
| detailed            | (Optional) Show the entire cache contents |
| <i>__readonly__</i> | (Optional)                                |
| <i>monitor</i>      | (Optional)                                |
| <i>use_count</i>    | (Optional)                                |
| <i>description</i>  | (Optional)                                |
| <i>record</i>       | (Optional)                                |
| <i>event</i>        | (Optional)                                |
| <i>exporter1</i>    | (Optional)                                |
| <i>exporter2</i>    | (Optional)                                |
| <i>bucket_id</i>    | (Optional)                                |
| <i>src_addr</i>     | (Optional)                                |
| <i>dest_addr</i>    | (Optional)                                |

## Command Mode

- /exec

## show fte record

```
show fte record [ name ] [ { <recordname> } | { fte-original } | { fte { protocol-port | layer2-switched { input } | { ipv4 | ipv6 | l2 } { original-input } } } ] [ __readonly__ <record> <description> <use_count> ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                             |
| fte                 | Show FTE information  |
| record              | Show Record Configuration                                   |
| name                | (Optional) Show the configuration for a specific FTE Record |
| <i>recordname</i>   | (Optional) Specify a record                                 |
| fte-original        | (Optional) Traditional IPv4 input FTE with origin ASs       |
| fte                 | (Optional) Traditional FTE collection schemes               |
| ipv4                | (Optional) IPv4 collection schemes                          |
| ipv6                | (Optional) IPv6 collection schemes                          |
| l2                  | (Optional) L2 collection schemes                            |
| layer2-switched     | (Optional) Layer2-Switched collection schemes               |
| original-input      | (Optional) Input FTE  |
| input               | (Optional) Input FTE  |
| protocol-port       | (Optional) Protocol and Ports aggregation scheme            |
| <i>__readonly__</i> | (Optional)  |
| <i>record</i>       | (Optional)  |
| <i>description</i>  | (Optional)  |
| <i>use_count</i>    | (Optional)  |

### Command Mode

- /exec







## G Show Commands

---

- [show guestshell](#), on page 522

# show guestshell

```
show guestshell [ { detail } ] [ __readonly__ [ TABLE_detail <name> <state> <package_name> <ova_path>
<application_name> <application_version> <application_description> <key_type> <signing_method>
<licensing_name> <licensing_version> <disk_reservation> <memory_reservation> <cpu_reservation>
TABLE_attached_devices <type> <name> <alias> ] ]
```

## Syntax Description

|                                |   |
|--------------------------------|---|
| show                           | Show running system information                     |
| guestshell                     | Display guest shell service information             |
| detail                         | (Optional) Detailed guest shell service information |
| __readonly__                   | (Optional) Read Only                                |
| TABLE_detail                   | (Optional) Virtual service detail table             |
| <i>name</i>                    | (Optional) Virtual service name                     |
| <i>package_name</i>            | (Optional) Virtual service package name             |
| <i>application_name</i>        | (Optional) Name of the application                  |
| <i>application_version</i>     | (Optional) Version of the application               |
| <i>application_description</i> | (Optional) Description of the application           |
| <i>key_type</i>                | (Optional) Virtual service key type                 |
| <i>signing_method</i>          | (Optional) Method used to sign the package          |
| <i>licensing_name</i>          | (Optional) Name of the license                      |
| <i>licensing_version</i>       | (Optional) Version of the license                   |
| <i>ova_path</i>                | (Optional) Virtual service OVA path                 |
| <i>state</i>                   | (Optional) Virtual service state                    |
| <i>disk_reservation</i>        | (Optional) Virtual service disk reservation         |
| <i>memory_reservation</i>      | (Optional) Virtual service memory reservation       |
| <i>cpu_reservation</i>         | (Optional) Virtual service CPU reservation          |
| TABLE_attached_devices         | (Optional) Attached devices table                   |
| <i>type</i>                    | (Optional) Type of the attached device              |
| <i>name</i>                    | (Optional) Name of the attached device              |
| <i>alias</i>                   | (Optional) Alias for the attached device            |

## Command Mode

- /exec





## H Show Commands

---

- [show hardware](#), on page 527
- [show hardware access-list lou resource threshold](#), on page 530
- [show hardware access-list resource pooling](#), on page 531
- [show hardware capacity](#), on page 532
- [show hardware capacity eobc](#), on page 533
- [show hardware capacity forwarding](#), on page 534
- [show hardware capacity interface](#), on page 535
- [show hardware capacity module](#), on page 536
- [show hardware capacity power](#), on page 538
- [show hardware fabricpath mac-learning module](#), on page 539
- [show hardware feature-capability](#), on page 540
- [show hardware flow aging](#), on page 541
- [show hardware flow entry address type](#), on page 542
- [show hardware flow etrap](#), on page 543
- [show hardware flow ip](#), on page 544
- [show hardware flow ipv6](#), on page 545
- [show hardware flow l2](#), on page 546
- [show hardware flow mpls](#), on page 547
- [show hardware flow sampler](#), on page 548
- [show hardware flow utilization](#), on page 549
- [show hardware forwarding interface statistics mode](#), on page 550
- [show hardware ip verify](#), on page 551
- [show hardware profile forwarding-mode](#), on page 552
- [show hardware profile packet-drop](#), on page 553
- [show hardware profile status](#), on page 554
- [show hardware profile tcam region](#), on page 556
- [show hardware rate-limiter](#), on page 557
- [show hardware rate-limiter span-egress](#), on page 559
- [show hostname](#), on page 560
- [show hosts](#), on page 561
- [show hsrp](#), on page 563
- [show hsrp anycast](#), on page 567
- [show hsrp anycast interface vlan](#), on page 568

- [show hsrp anycast remote-db](#), on page 569
- [show hsrp anycast summary](#), on page 570
- [show hsrp bfd-sessions](#), on page 571
- [show hsrp delay](#), on page 573
- [show hsrp mgo](#), on page 574
- [show hsrp summary](#), on page 575

# show hardware

```
show hardware [ __readonly__ <header_str> <bios_ver_str> [ <loader_ver_str> ] <kickstart_ver_str>
<nxos_ver_str> [ <sys_ver_str> ] <bios_cmpl_time> <kick_file_name> <nxos_file_name> <kick_cmpl_time>
<nxos_cmpl_time> <kick_tmstamp> <nxos_tmstamp> [ <isan_file_name> ] [ <isan_cmpl_time> ] [
<isan_tmstamp> ] <chassis_id> [ <module_id> ] <cpu_name> <memory> <mem_type> <proc_board_id> [
<host_name> ] <bootflash_size> [ <slot0_size> ] [ <slot1_size> ] <kern_uptm_days> <kern_uptm_hrs>
<kern_uptm_mins> <kern_uptm_secs> [ <rr_usecs> ] [ <rr_ctime> ] <rr_reason> [ <rr_sys_ver> ] [
<rr_service> ] <plugins> [ <manufacturer> ] { TABLE_slot [ TABLE_slot_info [ [ <num_slot_str> ] [
<status_ok_empty> ] [ [ <type> [ <num_submods> ] ] <model_num> <hw_ver> <part_num> <part_revision>
<manuf_date> <serial_num> <CLEI_code> [ <num_slot_str> ] ] ] } }
```

## Syntax Description

|                          |                                 |
|--------------------------|---------------------------------|
| show                     | Show running system information |
| hardware                 | Show hardware information       |
| <i>__readonly__</i>      | (Optional)                      |
| <i>header_str</i>        | (Optional)                      |
| <i>bios_ver_str</i>      | (Optional)                      |
| <i>loader_ver_str</i>    | (Optional)                      |
| <i>kickstart_ver_str</i> | (Optional)                      |
| <i>nxos_ver_str</i>      | (Optional)                      |
| <i>sys_ver_str</i>       | (Optional)                      |
| <i>bios_cmpl_time</i>    | (Optional)                      |
| <i>kick_file_name</i>    | (Optional)                      |
| <i>nxos_file_name</i>    | (Optional)                      |
| <i>kick_cmpl_time</i>    | (Optional)                      |
| <i>nxos_cmpl_time</i>    | (Optional)                      |
| <i>kick_tmstamp</i>      | (Optional)                      |
| <i>nxos_tmstamp</i>      | (Optional)                      |
| <i>isan_file_name</i>    | (Optional)                      |
| <i>isan_cmpl_time</i>    | (Optional)                      |
| <i>isan_tmstamp</i>      | (Optional)                      |
| <i>chassis_id</i>        | (Optional)                      |

|                        |                                       |
|------------------------|---------------------------------------|
| <i>module_id</i>       | (Optional)                            |
| <i>cpu_name</i>        | (Optional)                            |
| <i>memory</i>          | (Optional)                            |
| <i>mem_type</i>        | (Optional)                            |
| <i>proc_board_id</i>   | (Optional)                            |
| <i>bootflash_size</i>  | (Optional)                            |
| <i>slot0_size</i>      | (Optional)                            |
| <i>slot1_size</i>      | (Optional)                            |
| <i>host_name</i>       | (Optional)                            |
| <i>kern_uptm_days</i>  | (Optional)                            |
| <i>kern_uptm_hrs</i>   | (Optional)                            |
| <i>kern_uptm_mins</i>  | (Optional)                            |
| <i>kern_uptm_secs</i>  | (Optional)                            |
| <i>rr_usec</i>         | (Optional)                            |
| <i>rr_ctime</i>        | (Optional)                            |
| <i>rr_reason</i>       | (Optional)                            |
| <i>rr_sys_ver</i>      | (Optional)                            |
| <i>rr_service</i>      | (Optional)                            |
| <i>plugins</i>         | (Optional)                            |
| <i>manufacturer</i>    | (Optional)                            |
| TABLE_slot             | (Optional) Slot                       |
| <i>num_slot_str</i>    | (Optional) Number of elements         |
| TABLE_slot_info        | (Optional) Slot Info                  |
| <i>status_ok_empty</i> | (Optional) Status (Present or Absent) |
| <i>type</i>            | (Optional) Description of the element |
| <i>num_submods</i>     | (Optional) Number of Submodules       |
| <i>model_num</i>       | (Optional) Model Number               |
| <i>hw_ver</i>          | (Optional) Hardware version           |
| <i>part_num</i>        | (Optional) Part Number                |



|                      |                               |
|----------------------|-------------------------------|
| <i>part_revision</i> | (Optional) Part revision      |
| <i>manuf_date</i>    | (Optional) Manufacturing date |
| <i>serial_num</i>    | (Optional) Serial Number      |
| <i>CLEI_code</i>     | (Optional) CLEI code          |

**Command Mode**

- /exec

## show hardware access-list lou resource threshold

```
show hardware access-list lou resource threshold [ __readonly__ { current [ { lou [ { resource [ { threshold [
{ <threshold_value> } ] } ] } ] } ] } ] }
```

### Syntax Description

|                        |                                 |
|------------------------|---------------------------------|
| show                   | Show running system information |
| hardware               | Show hardware information       |
| access-list            | Access Control List             |
| lou                    | LOU                             |
| resource               | hardware resource               |
| threshold              | port expansion threshold        |
| <i>__readonly__</i>    | (Optional)                      |
| current                | (Optional)                      |
| lou                    | (Optional)                      |
| resource               | (Optional)                      |
| threshold              | (Optional)                      |
| <i>threshold_value</i> | (Optional)                      |

### Command Mode

- /exec

# show hardware access-list resource pooling

show hardware access-list resource pooling [ *\_\_readonly\_\_* <mod-num> <status> ]

## Syntax Description

|                     |                                   |
|---------------------|-----------------------------------|
| show                | Show running system information   |
| hardware            | Show hardware information         |
| access-list         | Access Control List               |
| resource            | Hardware resource                 |
| pooling             | ACL programming across TCAM banks |
| <i>__readonly__</i> | (Optional)                        |
| <i>mod-num</i>      | (Optional) module number          |
| <i>status</i>       | (Optional) Banchaining status     |

## Command Mode

- /exec

# show hardware capacity

show hardware capacity

## Syntax Description

|          |   |
|----------|---|
| show     | Show running system information                               |
| hardware | Hardware related  |
| capacity | Hardware usage levels for Power, Switching Fabric, Flash, etc |

## Command Mode

- /exec

## show hardware capacity eobc

```
show hardware capacity eobc [ __readonly__ { eobc_usage [ <eobc_tx_pps> ] [ <eobc_tx_packets> ] [ <eobc_tx_dropped> ] [ <eobc_rx_pps> ] [ <eobc_rx_packets> ] [ <eobc_rx_dropped> ] } ]
```

### Syntax Description

|                        |                                       |
|------------------------|---------------------------------------|
| show                   | Show running system information       |
| hardware               | Hardware related                      |
| capacity               | resource inventory and/or usage level |
| eobc                   | EOBC resources                        |
| <i>__readonly__</i>    | (Optional)                            |
| <i>eobc_usage</i>      | (Optional)                            |
| <i>eobc_tx_packets</i> | (Optional)                            |
| <i>eobc_tx_dropped</i> | (Optional)                            |
| <i>eobc_tx_pps</i>     | (Optional)                            |
| <i>eobc_rx_packets</i> | (Optional)                            |
| <i>eobc_rx_dropped</i> | (Optional)                            |
| <i>eobc_rx_pps</i>     | (Optional)                            |

### Command Mode

- /exec

# show hardware capacity forwarding

show hardware capacity forwarding

## Syntax Description

|            |   |
|------------|---|
| show       | Show running system information                               |
| hardware   | Hardware related  |
| capacity   | Hardware usage levels for Power, Switching Fabric, Flash, etc |
| forwarding | L2/L3 Forwarding resources                                    |

## Command Mode

- /exec

# show hardware capacity interface

```
show hardware capacity interface [ __readonly__ { TABLE_moddrops <mod_num_drops> <tx_drops>
<rx_drops> <max_tx_port> <max_rx_port> } { TABLE_modbuffers <mod_num_buffers> <tx_buffers>
<rx_buffers> } ]
```

## Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information                     |
| hardware               | Hardware related                                    |
| capacity               | Usage levels  |
| interface              | Interface Resources - Tx/Rx drops and Tx/Rx buffers |
| <i>__readonly__</i>    | (Optional) Read Only                                |
| <i>mod_num_drops</i>   | (Optional) Module number for Tx/Rx drops            |
| TABLE_moddrops         | (Optional) show module                              |
| <i>tx_drops</i>        | (Optional) Tx drops                                 |
| <i>rx_drops</i>        | (Optional) Rx drops                                 |
| <i>max_tx_port</i>     | (Optional) Port with max Tx drops                   |
| <i>max_rx_port</i>     | (Optional) Port with max Rx drops                   |
| <i>mod_num_buffers</i> | (Optional) Module number for Tx/Rx buffers          |
| TABLE_modbuffers       | (Optional) show module                              |
| <i>tx_buffers</i>      | (Optional) Tx buffers                               |
| <i>rx_buffers</i>      | (Optional) Rx buffers                               |

## Command Mode

- /exec

## show hardware capacity module

```
show hardware capacity module [ __readonly__ { sup_ha_status [ <sup_ha_admin_status> ] [
<sup_ha_oper_status> ] [ <dual_sup_hw_state> ] [ <redundancy_state> ] } { switch_resouces { TABLE_lcinfo
<mod_num> <model_num> <part_num> <serial_num> } [ { TABLE_xbarinfo <mod_num1> <model_num1>
<part_num1> <serial_num1> } ] } { TABLE_flash_nvram_info <mod_num2> <dev_name> <total_bytes>
<free_bytes> <percent_used> } ]
```

### Syntax Description

|                            |                                       |
|----------------------------|---------------------------------------|
| show                       | Show running system information       |
| hardware                   | Hardware related                      |
| capacity                   | resource inventory and/or usage level |
| module                     | SUP, LC, XBAR                         |
| <i>__readonly__</i>        | (Optional)                            |
| <i>sup_ha_status</i>       | (Optional)                            |
| <i>sup_ha_admin_status</i> | (Optional)                            |
| <i>sup_ha_oper_status</i>  | (Optional)                            |
| <i>dual_sup_hw_state</i>   | (Optional)                            |
| <i>redundancy_state</i>    | (Optional)                            |
| <i>switch_resouces</i>     | (Optional)                            |
| TABLE_lcinfo               | (Optional)                            |
| <i>mod_num</i>             | (Optional)                            |
| <i>model_num</i>           | (Optional)                            |
| <i>part_num</i>            | (Optional)                            |
| <i>serial_num</i>          | (Optional)                            |
| TABLE_xbarinfo             | (Optional)                            |
| <i>mod_num1</i>            | (Optional)                            |
| <i>model_num1</i>          | (Optional)                            |
| <i>part_num1</i>           | (Optional)                            |
| <i>serial_num1</i>         | (Optional)                            |
| TABLE_flash_nvram_info     | (Optional)                            |
| <i>mod_num2</i>            | (Optional)                            |



|                     |            |
|---------------------|------------|
| <i>dev_name</i>     | (Optional) |
| <i>total_bytes</i>  | (Optional) |
| <i>free_bytes</i>   | (Optional) |
| <i>percent_used</i> | (Optional) |

**Command Mode**

- /exec

## show hardware capacity power

```
show hardware capacity power [ __readonly__ { power_summary <ps_redun_mode_admin>
<ps_redun_mode_oper> <power_total> <power_rsvd> <power_rsvd_percent> <power_given_mod>
<power_given_mod_percent> <power_avail> <power_avail_percent> <power_out_actual_draw>
<power_input_actual_draw> } ]
```

### Syntax Description

|                                |   |
|--------------------------------|---|
| show                           | Show running system information             |
| hardware                       | Hardware related                            |
| capacity                       | resource inventory and/or usage level       |
| power                          | power summary                               |
| __readonly__                   | (Optional)                                  |
| power_summary                  | (Optional)                                  |
| <i>ps_redun_mode_admin</i>     | (Optional) Mode: Redundant or Non-redundant |
| <i>ps_redun_mode_oper</i>      | (Optional) Mode: Redundant or Non-redundant |
| <i>power_total</i>             | (Optional)                                  |
| <i>power_rsvd</i>              | (Optional)                                  |
| <i>power_rsvd_percent</i>      | (Optional)                                  |
| <i>power_given_mod</i>         | (Optional)                                  |
| <i>power_given_mod_percent</i> | (Optional)                                  |
| <i>power_avail</i>             | (Optional)                                  |
| <i>power_avail_percent</i>     | (Optional)                                  |
| <i>power_out_actual_draw</i>   | (Optional) Total Power Output, Actuals      |
| <i>power_input_actual_draw</i> | (Optional) Total Power Input, Actuals       |

### Command Mode

- /exec

# show hardware fabricpath mac-learning module

```
show hardware fabricpath mac-learning module <module> [ __readonly__ { [ { TABLE_module
<module_num> <port_group> <mac_learning> } ] } ]
```

## Syntax Description

|                     |                                    |
|---------------------|------------------------------------|
| show                | Show running system information    |
| hardware            | Show hardware information          |
| fabricpath          | Fabric Path                        |
| mac-learning        | MAC Learning                       |
| module              | Specify a module number            |
| <i>module</i>       | Specify a module number            |
| <i>__readonly__</i> | (Optional)                         |
| TABLE_module        | (Optional)                         |
| <i>module_num</i>   | (Optional) Specify a module number |
| <i>port_group</i>   | (Optional)                         |
| <i>mac_learning</i> | (Optional)                         |

## Command Mode

- /exec

# show hardware feature-capability

```
show hardware feature-capability [ detailed ] [ __readonly__ [ { TABLE_feature_support <feature_name> [
{ TABLE_mod_support <mod_inst> <support> } ] } ] ] ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information               |
| hardware              | Show hardware information                     |
| feature-capability    | show registered features supported            |
| detailed              | (Optional) detailed                           |
| __readonly__          | (Optional) Read_Only                          |
| TABLE_feature_support | (Optional) show features supported            |
| <i>feature_name</i>   | (Optional) feature name                       |
| TABLE_mod_support     | (Optional) show registered features supported |
| <i>mod_inst</i>       | (Optional) module instance                    |
| <i>support</i>        | (Optional) support details                    |

## Command Mode

- /exec

# show hardware flow aging

show hardware flow aging [ instance <inst> ] [ module <num> ]

## Syntax Description

|             |                                 |
|-------------|---------------------------------|
| show        | Show running system information |
| hardware    | Show hardware information       |
| flow        | Netflow Module                  |
| aging       | Aging Info                      |
| instance    | (Optional) Instance             |
| <i>inst</i> | (Optional) Earl Instance        |
| module      | (Optional) Line card module     |
| <i>num</i>  | (Optional) slot number          |

## Command Mode

- /exec

## show hardware flow entry address type

show hardware flow entry address <addr> type { ip | ipv6 | l2 | mpls } [ instance <inst> ] [ module <num> ]

### Syntax Description

|             |                                 |
|-------------|---------------------------------|
| show        | Show running system information |
| hardware    | Show hardware information       |
| flow        | Netflow Module                  |
| entry       | Netflow Table Entry             |
| address     | Netflow Table Address           |
| <i>addr</i> | Netflow Table Address           |
| type        | Flow Type                       |
| ip          | Internet Protocol Version 4     |
| ipv6        | Internet Protocol Version 6     |
| l2          | Layer 2 Protocol                |
| mpls        | MPLS Protocol                   |
| instance    | (Optional) Instance             |
| <i>inst</i> | (Optional) Earl Instance        |
| module      | (Optional) Line card module     |
| <i>num</i>  | (Optional) slot number          |

### Command Mode

- /exec

# show hardware flow etrap

```
show hardware flow etrap [ module <module> ] [ { unit <unit> slice <slice> } ] [ __readonly__ [ {
TABLE_etrap_flows <unit> <slice> <index> <keytype> <src_addr> <dst_addr> <src_port> <dst_port>
<proto> <rate> } ] ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information           |
| hardware            | Show hardware information                 |
| flow                | Traffic flow information                  |
| etrap               | Elephant Trap information                 |
| module              | (Optional) Slot/module                    |
| <i>module</i>       | (Optional) Slot/module number             |
| unit                | (Optional) Asic Number                    |
| <i>unit</i>         | (Optional) Asic Number on the module      |
| slice               | (Optional) slice num on asic              |
| <i>slice</i>        | (Optional) slice number on asic           |
| <i>__readonly__</i> | (Optional) Read Only                      |
| TABLE_etrap_flows   | (Optional) Elephant trap flows            |
| <i>unit</i>         | (Optional) ASIC number on the module      |
| <i>slice</i>        | (Optional) Slice number on the ASIC       |
| <i>index</i>        | (Optional) Elephant trap table index      |
| <i>keytype</i>      | (Optional) Elephant trap table key type   |
| <i>src_addr</i>     | (Optional) Elephant trap flow src address |
| <i>dst_addr</i>     | (Optional) Elephant trap flow dst address |
| <i>src_port</i>     | (Optional) Elephant trap flow src port    |
| <i>dst_port</i>     | (Optional) Elephant trap flow src port    |
| <i>proto</i>        | (Optional) Elephant trap flow protocol    |
| <i>rate</i>         | (Optional) Elephant trap flow protocol    |

## Command Mode

- /exec

# show hardware flow ip

```
show hardware flow ip [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ detail ] [ module <num> ]
```

## Syntax Description

|                  |                                      |
|------------------|--------------------------------------|
| show             | Show running system information      |
| hardware         | Show hardware information            |
| flow             | Netflow Module                       |
| ip               | Internet Protocol Version 4          |
| monitor          | (Optional) Netflow Flow Monitor      |
| <i>mname</i>     | (Optional) Netflow Flow Monitor Name |
| profile          | (Optional) Flow Profile              |
| <i>prof_id</i>   | (Optional) Netflow Profile ID        |
| vlan             | (Optional) Vlan commands             |
| <i>vlan_id</i>   | (Optional) VLAN ID 1-4094            |
| interface        | (Optional) Interface                 |
| <i>interface</i> | (Optional) Interface Name            |
| instance         | (Optional) Instance                  |
| <i>inst</i>      | (Optional) Earl Instance             |
| detail           | (Optional) Detailed Output Display   |
| module           | (Optional) Line card module          |
| <i>num</i>       | (Optional) slot number               |

## Command Mode

- /exec



# show hardware flow ipv6

```
show hardware flow ipv6 [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ detail ] [ module <num> ]
```

## Syntax Description

|                  |                                      |
|------------------|--------------------------------------|
| show             | Show running system information      |
| hardware         | Show hardware information            |
| flow             | Netflow Module                       |
| ipv6             | Internet Protocol Version 6          |
| monitor          | (Optional) Netflow Flow Monitor      |
| <i>mname</i>     | (Optional) Netflow Flow Monitor Name |
| profile          | (Optional) Flow Profile              |
| <i>prof_id</i>   | (Optional) Netflow Profile ID        |
| vlan             | (Optional) Vlan commands             |
| <i>vlan_id</i>   | (Optional) VLAN ID 1-4094            |
| interface        | (Optional) Interface                 |
| <i>interface</i> | (Optional) Interface Name            |
| instance         | (Optional) Instance                  |
| <i>inst</i>      | (Optional) Earl Instance             |
| detail           | (Optional) Detailed Output Display   |
| module           | (Optional) Line card module          |
| <i>num</i>       | (Optional) slot number               |

## Command Mode

- /exec

## show hardware flow l2

```
show hardware flow l2 [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } } ] [ instance
<inst> ] [ detail ] [ module <num> ]
```

### Syntax Description

|                |                                      |
|----------------|--------------------------------------|
| show           | Show running system information      |
| hardware       | Show hardware information            |
| flow           | Netflow Module                       |
| l2             | Layer 2 Protocol                     |
| monitor        | (Optional) Netflow Flow Monitor      |
| <i>mname</i>   | (Optional) Netflow Flow Monitor Name |
| profile        | (Optional) Flow Profile              |
| <i>prof_id</i> | (Optional) Netflow Profile ID        |
| vlan           | (Optional) Vlan commands             |
| <i>vlan_id</i> | (Optional) VLAN ID 1-4094            |
| instance       | (Optional) Instance                  |
| <i>inst</i>    | (Optional) Earl Instance             |
| detail         | (Optional) Detailed Output Display   |
| module         | (Optional) Line card module          |
| <i>num</i>     | (Optional) slot number               |

### Command Mode

- /exec

# show hardware flow mpls

```
show hardware flow mpls [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ detail ] [ module <num> ]
```

## Syntax Description

|                  |                                      |
|------------------|--------------------------------------|
| show             | Show running system information      |
| hardware         | Show hardware information            |
| flow             | Netflow Module                       |
| mpls             | MPLS Protocol                        |
| monitor          | (Optional) Netflow Flow Monitor      |
| <i>mname</i>     | (Optional) Netflow Flow Monitor Name |
| profile          | (Optional) Flow Profile              |
| <i>prof_id</i>   | (Optional) Netflow Profile ID        |
| vlan             | (Optional) Vlan commands             |
| <i>vlan_id</i>   | (Optional) VLAN ID 1-4094            |
| interface        | (Optional) Interface                 |
| <i>interface</i> | (Optional) Interface Name            |
| instance         | (Optional) Instance                  |
| <i>inst</i>      | (Optional) Earl Instance             |
| detail           | (Optional) Detailed Output Display   |
| module           | (Optional) Line card module          |
| <i>num</i>       | (Optional) slot number               |

## Command Mode

- /exec

# show hardware flow sampler

```
show hardware flow sampler { all | count | index <index> | name <sname> } [ detail ] [ instance <inst> ] [
module <num> ]
```

## Syntax Description

|              |                                    |
|--------------|------------------------------------|
| show         | Show running system information    |
| hardware     | Show hardware information          |
| flow         | Netflow Module                     |
| sampler      | Flow Sampler                       |
| all          | Netflow Sampler Usage              |
| count        | Netflow Sampler Utilization        |
| index        | Netflow Sampler Index              |
| <i>index</i> | Netflow Sampler Index              |
| name         | Netflow Sampler Name               |
| <i>sname</i> | Netflow Sampler Name               |
| detail       | (Optional) Detailed Output Display |
| instance     | (Optional) Instance                |
| <i>inst</i>  | (Optional) Clipper Instance        |
| module       | (Optional) Line card module        |
| <i>num</i>   | (Optional) slot number             |

## Command Mode

- /exec

# show hardware flow utilization

show hardware flow utilization [ instance <inst> ] [ module <num> ]

## Syntax Description

|             |                                 |
|-------------|---------------------------------|
| show        | Show running system information |
| hardware    | Show hardware information       |
| flow        | Netflow Module                  |
| utilization | NT Table Utilization            |
| instance    | (Optional) Instance             |
| <i>inst</i> | (Optional) Earl Instance        |
| module      | (Optional) Line card module     |
| <i>num</i>  | (Optional) slot number          |

## Command Mode

- /exec

# show hardware forwarding interface statistics mode

```
show hardware forwarding interface statistics mode [ __readonly__ { system [ { <sysmode> } ] [ {
TABLE_module <module> <modmode> } ] ] ]
```

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information               |
| hardware       | Show hardware information                     |
| forwarding     | Show hardware information for forwarding path |
| interface      | Interface                                     |
| statistics     | Statistics                                    |
| mode           | Statistics mode                               |
| __readonly__   | (Optional)                                    |
| system         | (Optional)                                    |
| <i>sysmode</i> | (Optional)                                    |
| TABLE_module   | (Optional)                                    |
| <i>module</i>  | (Optional) Specify a module number            |
| <i>modmode</i> | (Optional)                                    |

## Command Mode

- /exec

# show hardware ip verify

show hardware [ forwarding ] ip verify [ module <module> ] [ \_\_readonly\_\_ <info\_str> ]

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                          |
| hardware            | Show hardware information                                |
| forwarding          | (Optional) Show hardware information for forwarding path |
| ip                  | IP   |
| verify              | Show IP packet verification checks enabled in hardware   |
| module              | (Optional) Specify a module number                       |
| <i>module</i>       | (Optional) Specify a module number                       |
| <i>__readonly__</i> | (Optional)   |
| <i>info_str</i>     | (Optional) IDS Check Stats                               |

## Command Mode

- /exec

# show hardware profile forwarding-mode

```
show hardware profile forwarding-mode [ __READONLY__ <forwarding-mode> [ <host-size> ] [
<unicast-size> ] [ <unicast-rpf-size> ] [ <unicast-ipv4-size> ] [ <unicast-ipv4-rpf-size> ] [ <unicast-ipv6-size>
] [ <multicast-size> ] [ <l2-size> ] [ <unified-size> ] ]
```

## Syntax Description

|                              |                                       |
|------------------------------|---------------------------------------|
| show                         | Show running system information       |
| hardware                     | Show hardware profile forwarding-mode |
| profile                      | profile forwarding-mode               |
| forwarding-mode              | forwarding-mode                       |
| __READONLY__                 | (Optional)                            |
| <i>forwarding-mode</i>       | (Optional)                            |
| <i>host-size</i>             | (Optional)                            |
| <i>unicast-size</i>          | (Optional)                            |
| <i>unicast-rpf-size</i>      | (Optional)                            |
| <i>unicast-ipv4-size</i>     | (Optional)                            |
| <i>l2-size</i>               | (Optional)                            |
| <i>unified-size</i>          | (Optional)                            |
| <i>unicast-ipv4-rpf-size</i> | (Optional)                            |
| <i>unicast-ipv6-size</i>     | (Optional)                            |
| <i>multicast-size</i>        | (Optional)                            |

## Command Mode

- /exec



## show hardware profile packet-drop

```
show hardware profile packet-drop { status | data [ instance <cap_instance> ] | event [ instance <cap_instance>
] } [ __readonly__ [ <enable><state> <cap-scope><drop-trigger> <cap-count><cap-time> <file-inst> ] [
TABLE_hardware_packet_drop_status <profile-name><start-thres><stop-thres> ] [
TABLE_hardware_packet_drop_data <src-port><dst-port> <qos-grp><que-depth> <payload> ] [
TABLE_hardware_packet_drop_event <src-port><dst-port> <qos-grp><que-depth> <drop-reason> ] ]
```

### Syntax Description

|                                   |  |
|-----------------------------------|--|
| show                              | Show running system information                      |
| hardware                          | Change hardware usage settings                       |
| profile                           | Profile settings                                     |
| packet-drop                       | Packet Drop parameters                               |
| status                            | Packet Drop status                                   |
| data                              | Packet Drop circular-buffer data                     |
| instance                          | (Optional) Packet Drop captured instance             |
| <i>cap_instance</i>               | (Optional) Value 1-5                                 |
| event                             | Packet Drop event-buffer data                        |
| instance                          | (Optional) Packet Drop captured instance             |
| <i>cap_instance</i>               | (Optional) Value 1-5                                 |
| <i>__readonly__</i>               | (Optional)   |
| <i>file-inst</i>                  | (Optional) Packet-Drop file instance                 |
| TABLE_hardware_packet_drop_status | (Optional) XML Packet-drop stats                     |
| TABLE_hardware_packet_drop_data   | (Optional) XML Packet-drop data                      |
| <i>payload</i>                    | (Optional) Packet-Drop Data Packet Payload (80bytes) |
| TABLE_hardware_packet_drop_event  | (Optional) XML Packet-drop event                     |
| <i>drop-reason</i>                | (Optional) PacketDrop Event Drop trigger             |

### Command Mode

- /exec

## show hardware profile status

```
show hardware profile status [ module <module> ] [ detail ] [ __readonly__ { <total_lpm> <total_host>
<reserved_lpm> <max_host4_limit> <max_host6_limit> <max_mcast_limit> <max_mcast6_limit> [
<max_mcast_transit_route_limit> ] [ <max_v6_lpm_limit> ] [ <max_v6_lpm_65_to_127_limit> ] [
<used_lpm_total> ] <used_v4_lpm> <used_v6_lpm> [ <used_v6_lpm_128> ] <used_host_lpm_total>
<used_host_v4_lpm> <used_host_v6_lpm> <used_mcast> <used_mcast6> [ <used_mcast_transit_routes> ]
<used_mcast_oifl> <used_host_in_host_total> <used_host4_in_host> <used_host6_in_host>
<max_ecmp_table_limit> <used_ecmp_table> <max_ecmp_nh_table_limit> <used_ecmp_nh_table> [
<mfib_fd_status> ] [ <mfib_fd_maxroute> ] [ <mfib_fd_count> ] [ <lpm_to_host_migrate_table> ] [
<host_to_lpm_migrate_table> ] } ]
```

### Syntax Description

|                                   |   |
|-----------------------------------|---|
| show                              | Show running system information                       |
| hardware                          | Show hardware usage settings                          |
| profile                           | Show current table usage                              |
| status                            | Show status of dynamic resource allocation            |
| module                            | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED             |
| <i>module</i>                     | (Optional) Slot/module number                         |
| detail                            | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED             |
| <i>__readonly__</i>               | (Optional) Read only                                  |
| <i>total_lpm</i>                  | (Optional) Total LPM Entries                          |
| <i>total_host</i>                 | (Optional) Total Host Entries                         |
| <i>reserved_lpm</i>               | (Optional) Reserved LPM Entries                       |
| <i>max_host4_limit</i>            | (Optional) Max Host4 Limit Entries                    |
| <i>max_host6_limit</i>            | (Optional) Max Host6 Limit Entries                    |
| <i>max_mcast_limit</i>            | (Optional) Max Mcast Limit Entries                    |
| <i>max_mcast6_limit</i>           | (Optional) Max IPv6 Mcast Limit Entries               |
| <i>max_v6_lpm_limit</i>           | (Optional) Max Ucast IPv6 LPM Limit Entries           |
| <i>max_v6_lpm_65_to_127_limit</i> | (Optional) Max Ucast IPv6 LPM_65_to_127 Limit Entries |
| <i>used_lpm_total</i>             | (Optional) Used LPM Entries (Total)                   |
| <i>used_v4_lpm</i>                | (Optional) Used IPv4 LPM Entries                      |
| <i>used_v6_lpm</i>                | (Optional) Used IPv6 LPM Entries                      |

|                                      |  |
|--------------------------------------|--|
| <i>used_v6_lpm_128</i>               | (Optional) Used IPv6 LPM_128 Entries                   |
| <i>used_host_lpm_total</i>           | (Optional) Used Host Entries in LPM (Total)            |
| <i>used_host_v4_lpm</i>              | (Optional) Used Host4 Entries in LPM                   |
| <i>used_host_v6_lpm</i>              | (Optional) Used Host6 Entries in LPM                   |
| <i>used_mcast</i>                    | (Optional) Used Mcast Entries                          |
| <i>used_mcast6</i>                   | (Optional) Used IPv6 Mcast Entries                     |
| <i>used_mcast_oifl</i>               | (Optional) Used Mcast OIFL Entries                     |
| <i>used_host_in_host_total</i>       | (Optional) Used Host Entries in Host (Total)           |
| <i>used_host4_in_host</i>            | (Optional) Used Host4 Entries in Host                  |
| <i>used_host6_in_host</i>            | (Optional) Used Host6 Entries in Host                  |
| <i>max_ecmp_table_limit</i>          | (Optional) Max ECMP table Limit Entries                |
| <i>used_ecmp_table</i>               | (Optional) Used ECMP Table Entries                     |
| <i>max_ecmp_nh_table_limit</i>       | (Optional) Max ECMP NH table Limit Entries             |
| <i>used_ecmp_nh_table</i>            | (Optional) Used ECMP NH Table Entries                  |
| <i>mfib_fd_status</i>                | (Optional) MFIB fd status                              |
| <i>mfib_fd_maxroute</i>              | (Optional) MFIB fd maxroute                            |
| <i>mfib_fd_count</i>                 | (Optional) MFIB fd count                               |
| <i>lpm_to_host_migrate_table</i>     | (Optional) Times Route Migrated from LPM to Host Table |
| <i>host_to_lpm_migrate_table</i>     | (Optional) Times Route Migrated from Host to LPM Table |
| <i>max_mcast_transit_route_limit</i> | (Optional) Max Mcast Transit Route Limit Entries       |
| <i>used_mcast_transit_routes</i>     | (Optional) Used Mcast Transit Routes                   |

**Command Mode**

- /exec

## show hardware profile tcam region

```
show hardware profile tcam region [ __readonly__ { TCAM_Region [ { TABLE_Sizes <tcam_compat_type>
<tcam_compat_size> <tcam_compat_width> } ] } ]
```

### Syntax Description

|                          |                                 |
|--------------------------|---------------------------------|
| show                     | Show running system information |
| hardware                 | Show hardware information       |
| profile                  | profile                         |
| tcam                     | Show tcam parameters            |
| region                   | Show tcam region sizes          |
| <i>__readonly__</i>      | (Optional)                      |
| TCAM_Region              | (Optional)                      |
| TABLE_Sizes              | (Optional)                      |
| <i>tcam_compat_type</i>  | (Optional)                      |
| <i>tcam_compat_size</i>  | (Optional)                      |
| <i>tcam_compat_width</i> | (Optional)                      |

### Command Mode

- /exec

## show hardware rate-limiter

```
show hardware rate-limiter [ module <module> ] [ layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2
<l2-opts> | <opts> | fl <f1-opts> | span-egress | urpf-fail ] [ __readonly__ TABLE hardware_rate_limiter
<rate-limit-class> <class-descr> <module> <rate-limit-configured> [ <rate-limit-allowed> ] [
<rate-limit-dropped> ] [ <rate-limit-total> ] ]
```

### Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show running system information                              |
| hardware                     | Show hardware information                                    |
| rate-limiter                 | Show Rate-Limiter configs and statistics                     |
| layer-3                      | (Optional) Layer-3 control and Routed packets                |
| <i>l3-opts</i>               | (Optional)   |
| multicast                    | (Optional) Multicast data packets                            |
| <i>mcast-opts</i>            | (Optional)   |
| layer-2                      | (Optional) Layer-2 control and Bridged packets               |
| <i>l2-opts</i>               | (Optional)   |
| <i>opts</i>                  | (Optional)   |
| fl                           | (Optional) Control packets from F1 modules to supervisor     |
| <i>f1-opts</i>               | (Optional)   |
| span-egress                  | (Optional) SPAN/ERSPAN egress packets                        |
| urpf-fail                    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                    |
| module                       | (Optional) Specify a module number                           |
| <i>module</i>                | (Optional) Specify a module number                           |
| <i>__readonly__</i>          | (Optional)   |
| TABLE hardware_rate_limiter  | (Optional) the xml Rate-Limiter configuration and statistics |
| <i>rate-limit-class</i>      | (Optional) the xml rate limiter class                        |
| <i>class-descr</i>           | (Optional) class description                                 |
| <i>module</i>                | (Optional) the xml module number                             |
| <i>rate-limit-configured</i> | (Optional) the xml rate-limit-configured                     |
| <i>rate-limit-allowed</i>    | (Optional) the xml rate-limit-allowed                        |

|                           |                                       |
|---------------------------|---------------------------------------|
| <i>rate-limit-dropped</i> | (Optional) the xml rate-limit-dropped |
| <i>rate-limit-total</i>   | (Optional) the xml rate-limit-total   |

**Command Mode**

- /exec

## show hardware rate-limiter span-egress

```
show hardware rate-limiter span-egress [ __readonly__ TABLE hardware_rate_limiter <rate-limit-class>
<class-descr> <module> <rate-limit-configured> <rate-limit-allowed> <rate-limit-dropped> <rate-limit-total>
]
```

### Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show running system information                              |
| hardware                     | Show hardware information                                    |
| rate-limiter                 | Show Rate-Limiter configs and statistics                     |
| span-egress                  | SPAN/ERSPAN egress packets                                   |
| __readonly__                 | (Optional)   |
| TABLE hardware_rate_limiter  | (Optional) the xml Rate-Limiter configuration and statistics |
| <i>rate-limit-class</i>      | (Optional) the xml rate limiter class                        |
| <i>class-descr</i>           | (Optional) class description                                 |
| <i>module</i>                | (Optional) the xml module number                             |
| <i>rate-limit-configured</i> | (Optional) the xml rate-limit-configured                     |
| <i>rate-limit-allowed</i>    | (Optional) the xml rate-limit-allowed                        |
| <i>rate-limit-dropped</i>    | (Optional) the xml rate-limit-dropped                        |
| <i>rate-limit-total</i>      | (Optional) the xml rate-limit-total                          |

### Command Mode

- /exec

# show hostname

```
show { hostname | switchname } [ __readonly__ { <hostname> } ]
```

## Syntax Description

|                 |                                 |
|-----------------|---------------------------------|
| show            | Show running system information |
| hostname        | show the system's hostname      |
| switchname      | show the system's hostname      |
| __readonly__    | (Optional) Read Only            |
| <i>hostname</i> | (Optional)                      |

## Command Mode

- /exec



# show hosts

```
show hosts [ __readonly__ [ <dnslookup> ] [ <dnsnameservice> ] [ { TABLE_vrf <vrfname> [
<defaultdomains> ] [ <additionaldomainserver> ] [ <domainservers> ] [ <nameservice> ] [ <dhcpdomains>
] [ <dhcpdomainservers> ] } ] [ { TABLE_dnsconfigvrf <dnsvrfname> [ <usevrf> ] [ <token> ] [ {
TABLE_dnsconfigvrfconfig <config> } ] } ] [ { TABLE_hosts <host> [ <address> } ] } ]
```

## Syntax Description

|                               |                                     |
|-------------------------------|-------------------------------------|
| show                          | Show running system information     |
| hosts                         | Show information about DNS          |
| <i>__readonly__</i>           | (Optional)                          |
| <i>dnslookup</i>              | (Optional) dns lookup enable status |
| <i>dnsnameservice</i>         | (Optional) name service             |
| TABLE_vrf                     | (Optional) vrf domain servers       |
| <i>vrfname</i>                | (Optional) vrf name                 |
| <i>defaultdomains</i>         | (Optional) default domain           |
| <i>additionaldomainserver</i> | (Optional) additionaldomain         |
| <i>domainservers</i>          | (Optional) domain server            |
| <i>nameservice</i>            | (Optional) name service             |
| <i>dhcpdomains</i>            | (Optional) dhcp domains             |
| <i>dhcpdomainservers</i>      | (Optional) dhcpservers              |
| TABLE_dnsconfigvrf            | (Optional) dns config vrf           |
| <i>dnsvrfname</i>             | (Optional) vrfname                  |
| <i>usevrf</i>                 | (Optional) usevrf                   |
| <i>token</i>                  | (Optional) token                    |
| TABLE_dnsconfigvrfconfig      | (Optional) dns config vrf config    |
| <i>config</i>                 | (Optional) token                    |
| TABLE_hosts                   | (Optional) all configured dns hosts |
| <i>host</i>                   | (Optional) xml host information     |
| <i>address</i>                | (Optional) xml address information  |

## Command Mode

- /exec

# show hsrp

```
show hsrp [ interface <interface-id> ] [ group <group-number> ] [ active | init | learn | listen | speak | standby
] + [ all ] [ brief [ all ] | detail ] [ ipv4 | ipv6 ] [ _readonly_ <show_hsrp_start> { TABLE_grp_detail
<sh_if_index> <sh_group_num> <sh_group_type> <sh_group_version> <sh_group_state> [ <sh_state_reason>
] <sh_prio> <sh_cfg_prio> <sh_fwd_lower_threshold> <sh_fwd_upper_threshold> <sh_can_forward>
<sh_preempt> [ <sh_preempt_min_delay> ] [ <sh_preempt_min_delay_active> ] [ <sh_preempt_reload_delay>
] [ <sh_preempt_reload_delay_active> ] [ <sh_preempt_sync_delay> ] [ <sh_preempt_sync_delay_active> ]
<sh_cur_hello> <sh_cur_hello_attr> [ <sh_cfg_hello> ] [ <sh_cfg_hello_attr> ] [ <sh_active_hello> ]
<sh_cur_hold> <sh_cur_hold_attr> [ <sh_cfg_hold> ] [ <sh_cfg_hold_attr> ] [ <sh_vip> | <sh_vip_v6> ]
<sh_vip_attr> <sh_num_vip_sec> { [ TABLE_grp_vip_sec <sh_vip_sec> } } [ <sh_active_router_addr> |
<sh_active_router_addr_v6> ] <sh_active_router_prio> [ <sh_active_router_timer> ] [
<sh_standby_router_addr> | <sh_standby_router_addr_v6> ] <sh_standby_router_prio>
<sh_authentication_type> <sh_authentication_data> [ <sh_keystring_attr> ] [ <sh_keystring_timeout> ] [
<sh_keystring_cur_valid> ] <sh_vmac> <sh_vmac_attr> <sh_num_of_state_changes> [ <sh_last_state_change>
] <sh_num_of_total_state_changes> [ <sh_last_total_state_change> ] { [ TABLE_grp_track_obj <sh_track_obj>
<sh_track_obj_state> <sh_track_obj_prio> ] } <sh_num_track_obj> <sh_ip_redund_name>
<sh_ip_redund_name_attr> } <show_hsrp_end> ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                |
| hsrp                | Hot Standby Router Protocol (HSRP) information |
| interface           | (Optional) Groups on this interface            |
| <i>interface-id</i> | (Optional) Interface                           |
| active              | (Optional) Groups in active state              |
| init                | (Optional) Groups in init state                |
| listen              | (Optional) Groups in listen state              |
| standby             | (Optional) Groups in standby state             |
| learn               | (Optional) Groups in learn state               |
| speak               | (Optional) Groups in speak state               |
| group               | (Optional) Group number                        |
| <i>group-number</i> | (Optional) Group Number                        |
| all                 | (Optional) Include groups in disabled state    |
| brief               | (Optional) Brief output                        |
| detail              | (Optional) Detailed output                     |
| ipv4                | (Optional) HSRP V4 Groups                      |
| ipv6                | (Optional) HSRP V6 Groups                      |

|                                |   |
|--------------------------------|---|
| all                            | (Optional) Display all VIPs               |
| __readonly__                   | (Optional) Read only                      |
| show_hsrp_start                | (Optional) Show hsrp start                |
| TABLE_grp_detail               | (Optional) Group table detail             |
| sh_if_index                    | (Optional) Interface type and number      |
| sh_group_num                   | (Optional) Group number                   |
| sh_group_state                 | (Optional) HSRP state                     |
| sh_state_reason                | (Optional) Reason                         |
| sh_group_type                  | (Optional) Group type                     |
| sh_group_version               | (Optional) Group version                  |
| sh_prio                        | (Optional) Priority                       |
| sh_cfg_prio                    | (Optional) Configured priority            |
| sh_fwd_lower_threshold         | (Optional) Lower threshold value          |
| sh_fwd_upper_threshold         | (Optional) Upper threshold value          |
| sh_can_forward                 | (Optional) Current forwarding status      |
| sh_preempt                     | (Optional) Preemption enabled/not         |
| sh_preempt_min_delay           | (Optional) Preemption min delay           |
| sh_preempt_min_delay_active    | (Optional) Active preemption min delay    |
| sh_preempt_reload_delay        | (Optional) Preemption reload delay        |
| sh_preempt_reload_delay_active | (Optional) Active preemption reload delay |
| sh_preempt_sync_delay          | (Optional) Preemption sync delay          |
| sh_preempt_sync_delay_active   | (Optional) Active preemption sync delay   |
| sh_cur_hello                   | (Optional) Current hello time             |
| sh_cur_hello_attr              | (Optional) Hello time in ms/not           |
| sh_cfg_hello                   | (Optional) Configured hello time          |
| sh_cfg_hello_attr              | (Optional) Hello time in ms/not           |
| sh_active_hello                | (Optional) Active hello time              |
| sh_cur_hold                    | (Optional) Current hold time              |
| sh_cur_hold_attr               | (Optional) Hello time in ms/not           |

|                                      |   |
|--------------------------------------|---|
| <i>sh_cfg_hold</i>                   | (Optional) Configured hold time                   |
| <i>sh_cfg_hold_attr</i>              | (Optional) Hello time in ms/not                   |
| <i>sh_vip</i>                        | (Optional) Virtual IP address                     |
| <i>sh_vip_attr</i>                   | (Optional) Virtual IP address attribute           |
| <i>sh_num_vip_sec</i>                | (Optional) Number of Secondary virtual IP address |
| TABLE_grp_vip_sec                    | (Optional) Group secondary ip address             |
| <i>sh_vip_sec</i>                    | (Optional) Secondary virtual IP address           |
| <i>sh_active_router_addr</i>         | (Optional) Active router address                  |
| <i>sh_active_router_prio</i>         | (Optional) Active router priority                 |
| <i>sh_active_router_timer</i>        | (Optional) Active router expiry timer             |
| <i>sh_standby_router_addr</i>        | (Optional) Standby router address                 |
| <i>sh_standby_router_prio</i>        | (Optional) Standby router priority                |
| <i>sh_authentication_type</i>        | (Optional) Authentication type                    |
| <i>sh_authentication_data</i>        | (Optional) Authentication data                    |
| <i>sh_keystring_attr</i>             | (Optional) Keystring attribute                    |
| <i>sh_keystring_timeout</i>          | (Optional) Keystring timeout                      |
| <i>sh_keystring_cur_valid</i>        | (Optional) Keystring current valid time           |
| <i>sh_vmac</i>                       | (Optional) Virtual MAC                            |
| <i>sh_vmac_attr</i>                  | (Optional) Virtual MAC attribute                  |
| <i>sh_num_of_state_changes</i>       | (Optional) Number of state changes                |
| <i>sh_last_state_change</i>          | (Optional) Last state change time                 |
| <i>sh_num_of_total_state_changes</i> | (Optional) Number of total state changes          |
| <i>sh_last_total_state_change</i>    | (Optional) Last total state change time           |
| <i>sh_num_track_obj</i>              | (Optional) Number of tracked objects              |
| TABLE_grp_track_obj                  | (Optional) Group tracked objects                  |
| <i>sh_track_obj</i>                  | (Optional) Tracked object                         |
| <i>sh_track_obj_state</i>            | (Optional) State of tracked object                |
| <i>sh_track_obj_prio</i>             | (Optional) Tracked object priority decrement      |
| <i>sh_ip_redund_name</i>             | (Optional) IP redundancy name                     |

|                               |   |
|-------------------------------|---|
| <i>sh_ip_redund_name_attr</i> | (Optional) IP redundancy name attribute |
| <i>show_hsrp_end</i>          | (Optional) End of Group                 |

**Command Mode**

- /exec

# show hsrp anycast

```
show hsrp anycast [ <id> { ipv4 | ipv6 | both } ] [ brief ]
```

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                        |
| hsrp      | Hot Standby Router Protocol (HSRP) information         |
| anycast   | Anycast related commands                               |
| <i>id</i> | (Optional) Bundle number                               |
| ipv4      | (Optional) Associate IP Version 4 for the bundle       |
| ipv6      | (Optional) Associate IP Version 6 for the bundle       |
| both      | (Optional) Associate IP Version 4 and 6 for the bundle |
| brief     | (Optional) Brief output                                |

## Command Mode

- /exec

## show hsrp anycast interface vlan

show hsrp anycast interface { vlan | bdi } <id>

### Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                |
| hsrp      | Hot Standby Router Protocol (HSRP) information |
| anycast   | Anycast related commands                       |
| interface | Bundle on this interface Interface             |
| vlan      | VLAN interface                                 |
| bdi       | Bridge-Domain interface                        |
| <i>id</i> | VLAN number                                    |

### Command Mode

- /exec



## show hsrp anycast remote-db

show hsrp anycast remote-db [ <id> { ipv4 | ipv6 | both } ]

### Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                        |
| hsrp      | Hot Standby Router Protocol (HSRP) information         |
| anycast   | Anycast related commands                               |
| remote-db | Remote data base for the bundle                        |
| <i>id</i> | (Optional) Bundle number                               |
| ipv4      | (Optional) Associate IP Version 4 for the bundle       |
| ipv6      | (Optional) Associate IP Version 6 for the bundle       |
| both      | (Optional) Associate IP Version 4 and 6 for the bundle |

### Command Mode

- /exec

# show hsrp anycast summary

show hsrp anycast summary

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                |
| hsrp    | Hot Standby Router Protocol (HSRP) information |
| anycast | Anycast related commands                       |
| summary | Show HSRP summary                              |

## Command Mode

- /exec



|                       |                      |
|-----------------------|----------------------|
| <i>hist_status</i>    | (Optional) Status    |
| <i>hist_op_reason</i> | (Optional) Op reason |

**Command Mode**

- /exec

# show hsrp delay

```
show hsrp delay [ interface <interface-id> ] [ __readonly__ TABLE_delay <interface> <min_delay>
<reload_delay> ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                |
| hsrp                | Hot Standby Router Protocol (HSRP) information |
| delay               | Group initialisation delay                     |
| interface           | (Optional) Groups on this interface            |
| <i>interface-id</i> | (Optional) Interface                           |
| <i>__readonly__</i> | (Optional)                                     |
| <i>TABLE_delay</i>  | (Optional)                                     |
| <i>interface</i>    | (Optional) Interface                           |
| <i>min_delay</i>    | (Optional) Min delay                           |
| <i>reload_delay</i> | (Optional) Reload delay                        |

## Command Mode

- /exec

# show hsrp mgo

```
show hsrp mgo [ name <name> | brief ] [ __readonly__ TABLE_hsrp_mgo <master_name> <master_interface>
<master_address_family> <master_group_id> [ <master_version> ] <master_state> [ <master_down_reason>
] [ { TABLE_slave <slave_interface> <slave_group_id> <slave_state> [ <slave_down_reason> } ] [
<num_slave_group> ] ]
```

## Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show running system information                |
| hsrp                         | Hot Standby Router Protocol (HSRP) information |
| mgo                          | Show HSRP mgo details                          |
| name                         | (Optional) Redundancy name string              |
| <i>name</i>                  | (Optional) name string                         |
| brief                        | (Optional) show HSPR mgo brief                 |
| <i>__readonly__</i>          | (Optional)                                     |
| TABLE_hsrp_mgo               | (Optional)                                     |
| <i>master_name</i>           | (Optional) HSRP master name                    |
| <i>master_interface</i>      | (Optional) HSRP master interface               |
| <i>master_address_family</i> | (Optional) HSRP master AF                      |
| <i>master_group_id</i>       | (Optional) HSRP master group ID                |
| <i>master_version</i>        | (Optional) HSRP master version                 |
| <i>master_state</i>          | (Optional) HSRP master state                   |
| <i>master_down_reason</i>    | (Optional) HSRP master down reason             |
| TABLE_slave                  | (Optional) Slave table                         |
| <i>slave_interface</i>       | (Optional) HSRP slave interface                |
| <i>slave_group_id</i>        | (Optional) HSRP slave group id                 |
| <i>slave_state</i>           | (Optional) HSRP slave state                    |
| <i>slave_down_reason</i>     | (Optional) HSRP slave down reason              |
| <i>num_slave_group</i>       | (Optional) HSRP number of slave groups         |

## Command Mode

- /exec

## show hsrp summary

```
show hsrp summary [ __readonly__ <switchover_notify_rxed> <bfd_enabled> <num_of_groups>
<num_of_v4_v1_groups> <num_of_v4_v2_groups> <num_of_v6_v2_groups> <num_of_active_groups>
<num_of_standby_groups> <num_of_listen_groups> <num_of_v6_active_groups>
<num_of_v6_standby_groups> <num_of_v6_listen_groups> <num_of_hsrp_enabled_ifs> <counter_pkts_tx>
<counter_pkts_tx_failure> <counter_pkts_in> <counter_pkts_bad_vr> <counter_mts_rx> ]
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information                           |
| hsrp                            | Hot Standby Router Protocol (HSRP) information            |
| summary                         | Show HSRP summary   |
| <i>__readonly__</i>             | (Optional)  |
| <i>switchover_notify_rxed</i>   | (Optional) Switchover notification received (1 => active) |
| <i>bfd_enabled</i>              | (Optional) BFD status                                     |
| <i>num_of_groups</i>            | (Optional) Total number of groups                         |
| <i>num_of_v4_v1_groups</i>      | (Optional) Number of IPv4 V1 groups                       |
| <i>num_of_v4_v2_groups</i>      | (Optional) Number of IPv4 V2 groups                       |
| <i>num_of_v6_v2_groups</i>      | (Optional) Number of IPv6 V2 groups                       |
| <i>num_of_active_groups</i>     | (Optional) Number of active groups                        |
| <i>num_of_standby_groups</i>    | (Optional) Number of standby groups                       |
| <i>num_of_listen_groups</i>     | (Optional) Number of listen groups                        |
| <i>num_of_v6_active_groups</i>  | (Optional) Number of IPv6 active groups                   |
| <i>num_of_v6_standby_groups</i> | (Optional) Number of IPv6 standby groups                  |
| <i>num_of_v6_listen_groups</i>  | (Optional) Number of IPv6 listen groups                   |
| <i>num_of_hsrp_enabled_ifs</i>  | (Optional) Number of HSRP enabled interfaces              |
| <i>counter_pkts_tx</i>          | (Optional) Number of packet transmission successes        |
| <i>counter_pkts_tx_failure</i>  | (Optional) Number of packet transmission failure          |
| <i>counter_pkts_in</i>          | (Optional) Number of packets received successfully        |
| <i>counter_pkts_bad_vr</i>      | (Optional) Number of packets for unknown groups           |
| <i>counter_mts_rx</i>           | (Optional) Number of MTS messages received                |

### Command Mode

- /exec





## I Show Commands

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## show icam entries acl module inst

```
show icam entries acl module <module> inst <inst> [ history <num_intervals> ] [ sort { top <top_x> | sort-order
{ ascending | descending } | filter <f_f> [ exact ] | top <top_x> sort-order { ascending | descending } | top
<top_x> filter <f_f> [ exact ] | top <top_x> sort-order { ascending | descending } filter <f_f> [ exact ] | top
<top_x> filter <f_f> [ exact ] sort-order { ascending | descending } | sort-order { ascending | descending } top
<top_x> | sort-order { ascending | descending } filter <f_f> [ exact ] | sort-order { ascending | descending }
filter <f_f> [ exact ] top <top_x> | sort-order { ascending | descending } top <top_x> filter <f_f> [ exact ] |
filter <f_f> [ exact ] top <top_x> | filter <f_f> [ exact ] sort-order { ascending | descending } | filter <f_f> [
exact ] top <top_x> sort-order { ascending | descending } | filter <f_f> [ exact ] sort-order { ascending |
descending } top <top_x> } ] [ __readonly__ <module> <instance> [ <num_intervals> ] [ {
TABLE_ACL_entries <Feature> <Pkt_Type> <SourceIP_Mask_DestIP_Mask> <Action> <Intf_name>
<Stats> [ <Rate> } ] ] ]
```

### Syntax Description

|                      |  |
|----------------------|--|
| show                 | Show running system information  |
| icam                 | intelligent CAM  |
| entries              | TCAM Entries with result and stats   |
| acl                  | ACL entries  |
| module               | Module Number  |
| <i>module</i>        | Enter Module Number  |
| inst                 | ASIC/Forwarding Engine Instance Number   |
| <i>inst</i>          | Enter Instance Number  |
| sort                 | (Optional) Sorted display  |
| top                  | (Optional) Show top x% entries (Default:100%)                                    |
| <i>top_x</i>         | (Optional) x% of entries to be displayed   |
| sort-order           | (Optional) Choose the order of displaying sorted entries<br>(Default:descending) |
| ascending            | (Optional) Sort in Ascending order of Stats                                      |
| descending           | (Optional) Sort in Descending order of Stats                                     |
| filter               | (Optional) Feature to be filtered (Default:All)                                  |
| <i>f_f</i>           | (Optional) Enter feature to be filtered  |
| exact                | (Optional) Exact match for feature filter  |
| history              | (Optional) Show entries history  |
| <i>num_intervals</i> | (Optional) Number of intervals to display  |

|                                  |  |
|----------------------------------|--|
| <i>__readonly__</i>              | (Optional) Read Only                     |
| <i>module</i>                    | (Optional) Module number                 |
| <i>instance</i>                  | (Optional) Instance number               |
| <i>num_intervals</i>             | (Optional) Number of intervals displayed |
| TABLE_ACL_entries                | (Optional) Table for ACL entries         |
| <i>Feature</i>                   | (Optional) Feature name                  |
| <i>Pkt_Type</i>                  | (Optional) Packet type                   |
| <i>SourceIP_Mask_DestIP_Mask</i> | (Optional) IP addresses                  |
| <i>Action</i>                    | (Optional) Action                        |
| <i>Intf_name</i>                 | (Optional) Interface name                |
| <i>Stats</i>                     | (Optional) Total stats                   |
| <i>Rate</i>                      | (Optional) Rate packets/sec              |

**Command Mode**

- /exec

## show icam health

```
show icam health [ __readonly__ { <Version> } [ [ { TABLE_cpu <CpuTypeName> <CpuTypeValue> } ] [
{ TABLE_mem <MemTypeName> <MemTypeValue> } ] [ { TABLE_ps <PsTypeName> <PsTypeValue>
} ] ] ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information           |
| icam                | iCAM - intelligent CAM                    |
| health              | Health status                             |
| __readonly__        | (Optional)                                |
| <i>Version</i>      | (Optional) Version of output format       |
| TABLE_cpu           | (Optional) Table CPU Usage                |
| <i>CpuTypeName</i>  | (Optional) CPU Usage Type                 |
| <i>CpuTypeValue</i> | (Optional) CPU Usage Value                |
| TABLE_mem           | (Optional) Table Memory Usage             |
| <i>MemTypeName</i>  | (Optional) Memory Usage Type              |
| <i>MemTypeValue</i> | (Optional) Memory Usage Value             |
| TABLE_ps            | (Optional) Table Power Supply Usage       |
| <i>PsTypeName</i>   | (Optional) Power Supply Information Type  |
| <i>PsTypeValue</i>  | (Optional) Power Supply Information Value |

### Command Mode

- /exec

# show icam itd

```
show icam itd [ __readonly__ { <Version> } [ { TABLE_svc <Svc> <DG> [ { TABLE_stats <OrigNode>
<AssignTo> <Mode> <PktCnt> <PktPct> } ] } ] ] ]
```

## Syntax Description

|                     |                                     |
|---------------------|-------------------------------------|
| show                | Show running system information     |
| icam                | iCAM - intelligent CAM              |
| itd                 | Intelligent Traffic Director        |
| <i>__readonly__</i> | (Optional)                          |
| <i>Version</i>      | (Optional) Version of output format |
| <i>TABLE_svc</i>    | (Optional) Table service            |
| <i>Svc</i>          | (Optional) Service                  |
| <i>DG</i>           | (Optional) Device Group             |
| <i>TABLE_stats</i>  | (Optional) Table stats              |
| <i>OrigNode</i>     | (Optional) Original Node            |
| <i>AssignTo</i>     | (Optional) Assigned to              |
| <i>Mode</i>         | (Optional) Mode                     |
| <i>PktCnt</i>       | (Optional) Packet Count             |
| <i>PktPct</i>       | (Optional) Packet Percentage        |

## Command Mode

- /exec

## show icam prediction entries acl module inst

```
show icam prediction entries acl module <module> inst <inst> <YYYY> <Month> <Date> <Time> [ top
<top_x> ] [ __readonly__ <module> <instance> [ { TABLE_PREDICTION_ACL_entries <Feature>
<Pkt_Type> <Value_Mask> <Action> <Intf_name> <Stats> <Prediction> } ] ]
```

### Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information                     |
| icam                         | intelligent CAM                                     |
| prediction                   | Machine learning prediction                         |
| entries                      | TCAM Entries with result and stats                  |
| acl                          | ACL entries   |
| module                       | Module Number                                       |
| <i>module</i>                | Enter Module Number                                 |
| inst                         | ASIC/Forwarding Engine Instance Number              |
| <i>inst</i>                  | Enter Instance Number                               |
| <i>YYYY</i>                  | Enter year in YYYY format                           |
| <i>Month</i>                 | Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec |
| <i>Date</i>                  | Enter day of month in dd format                     |
| <i>Time</i>                  | Enter hour, minutes, seconds as HH:MM:SS            |
| top                          | (Optional) Show top x% entries (Default:1%)         |
| <i>top_x</i>                 | (Optional) x% of entries to be displayed            |
| <i>__readonly__</i>          | (Optional) Read Only                                |
| <i>module</i>                | (Optional) Module number                            |
| <i>instance</i>              | (Optional) Instance number                          |
| TABLE_PREDICTION_ACL_entries | (Optional) Table for ACL entries prediction         |
| <i>Feature</i>               | (Optional) Feature name                             |
| <i>Pkt_Type</i>              | (Optional) Packet type                              |
| <i>Value_Mask</i>            | (Optional) Value mask                               |
| <i>Action</i>                | (Optional) Action                                   |
| <i>Intf_name</i>             | (Optional) Interface name                           |

|                   |                          |
|-------------------|--------------------------|
| <i>Stats</i>      | (Optional) Current stats |
| <i>Prediction</i> | (Optional) Prediction    |

**Command Mode**

- /exec

## show icam prediction scale

```
show icam prediction scale [ { { l2-switching [ mac-addresses | mst-instances | mst-vports | rpvtst-vports |
rpvtst-vlans | total-vlans-x-ports | vlans | infra { mac } | stp { mst-instance | mst-vport | rpvtst-vport | rpvtst-vlan
| isolated-portvlan } | vlan { vlan-count } ] } | { multicast-routing [ multicast-routes | igmp-groups |
pim-neighbors | outgoing-interfaces | routing-forwarding { route-v4 | route-v6 | outgoing-interface } | igmp {
group } | pim { neighbor } ] } | { unicast-routing [ bfd-sessions | eigrp-routes | ipv4-arp | ipv4-host-routes |
ipv6-host-routes | ipv4-isis-routes | ospf-nbr | ospf-lsa | ospf-area | ospf-vrf | ospf-passive-intf | bfd { session
} | bgp { neighbor } | eigrp { route | neighbor } | hsrp { mac } | arp { arp-count } | ipv6-nd { nd-count } |
routing { host-route-v4 | host-route-v6 | lpm-route-v4 | lpm-route-v6 } | isis { adjacency | bfd-session | route
} | ospf { neighbor | lsa | area } | vrf { vrf-count } | vrrp { grp-per-intf } | pbr { seq-per-policy | nh-per-policy
| ace-v4 | ace-v6 | ace-v4v6 | intf } | vrrp3 { grp-per-intf | grp-dft-timer | grp-relax-timer | path-dft-timer |
grp-and-path } ] } | { vxlan [ igmp { vlan | vtep | underlay-mcast-group } | fl { vni | underlay-mcast-group |
overlay-mac | vtep | ir-peer | ir-vni | ir-mac | vlan-mapping-under-intf | vlan-mapping-in-switch |
static-mac-to-vtep | vlan-logical-port-vp | vlan-per-fex-port | vni-for-vpc-gw | igmp-group } | bgp { vni | svi
| vrf | underlay-mcast-group | vtep | mac | host-route-v4 | host-route-v6 | overlay-lpm-route-v4 |
overlay-lpm-route-v6 | vlan-logical-port-vp | vlan-per-fex-port | igmp-group } | bgp-ir { vni | svi | vrf | vtep |
mac | host-route-v4 | host-route-v6 | overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp |
vlan-per-fex-port | igmp-group } ] } ] <YYYY> <Month> <Date> <Time> [ __readonly__ [ <Info_Thres>
<Warn_Thres> <Crit_Thres> ] [ { TABLE_technology <Technology> [ { TABLE_feature <Feature>
<Verified_Scale> <Config_Scale> [ { TABLE_feature_stats <Used_Entries> [ <Cur_Util> ] } ] } ] } ] }
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information           |
| icam                | intelligent CAM                           |
| scale               | Verified scale                            |
| prediction          | Machine learning prediction               |
| l2-switching        | (Optional) Layer 2 switching              |
| multicast-routing   | (Optional) Multicast routing              |
| unicast-routing     | (Optional) Unicast routing                |
| vxlan               | (Optional) VxLAN                          |
| mac-addresses       | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| mst-instances       | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| mst-vports          | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| rpvtst-vports       | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| rpvtst-vlans        | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| total-vlans-x-ports | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| vlans               | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |



|                     |   |
|---------------------|---|
| infra               | (Optional) Infrastructure   |
| mac                 | (Optional) MAC Address  |
| vlan                | (Optional) VLAN   |
| vlan-count          | (Optional) Number of VLANs  |
| stp                 | (Optional) Spanning Tree Protocol                                 |
| mst-instance        | (Optional) MST instances  |
| mst-vport           | (Optional) MST virtual ports                                      |
| rpvst-vport         | (Optional) RPVST virtual ports                                    |
| rpvst-vlan          | (Optional) RPVST VLANs  |
| isolated-portvlan   | (Optional) Total number of VLANs x ports with switchport isolated |
| multicast-routes    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| igmp-groups         | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| pim-neighbors       | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| outgoing-interfaces | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| routing-forwarding  | (Optional) Routing and forwarding                                 |
| route-v4            | (Optional) IPv4 Route   |
| route-v6            | (Optional) IPv6 Route   |
| outgoing-interface  | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| igmp                | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| group               | (Optional) IGMP snooping group                                    |
| pim                 | (Optional) PIM  |
| neighbor            | (Optional) PIM neighbor   |
| bfd-sessions        | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| eigrp-routes        | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| ipv4-arp            | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| ipv4-host-routes    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| ipv6-host-routes    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| ipv4-isis-routes    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| ospf-nbr            | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |

|                   |   |
|-------------------|---|
| ospf-lsa          | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| ospf-area         | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| ospf-vrf          | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| ospf-passive-intf | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| bfd               | (Optional) BFD                            |
| session           | (Optional) BFD session                    |
| bgp               | (Optional) BGP                            |
| neighbor          | (Optional) BGP neighbor                   |
| eigrp             | (Optional) EIGRP                          |
| route             | (Optional) EIGRP route                    |
| neighbor          | (Optional) EIGRP neighbor                 |
| hsrp              | (Optional) HSRP                           |
| mac               | (Optional) HSRP MAC                       |
| arp               | (Optional) ARP                            |
| arp-count         | (Optional) ARP count                      |
| ipv6-nd           | (Optional) IPv6 ND                        |
| nd-count          | (Optional) ND count                       |
| routing           | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| host-route-v4     | (Optional) IPv4 host route                |
| host-route-v6     | (Optional) IPv6 host route                |
| lpm-route-v4      | (Optional) IPv4 LPM route                 |
| lpm-route-v6      | (Optional) IPv6 LPM route                 |
| isis              | (Optional) IS-IS                          |
| adjacency         | (Optional) IS-ISv4 adjacency              |
| bfd-session       | (Optional) IS-ISv4 BFD session            |
| route             | (Optional) IS-ISv4 route                  |
| ospf              | (Optional) OSPF                           |
| neighbor          | (Optional) OSPF neighbor                  |
| lsa               | (Optional) OSPF LSA                       |

|                      |  |
|----------------------|--|
| area                 | (Optional) OSPF Area   |
| vrf                  | (Optional) VRF   |
| vrf-count            | (Optional) VRF count   |
| vrrp                 | (Optional) VRRP  |
| grp-per-intf         | (Optional) VRRP groups per interface                               |
| pbr                  | (Optional) PBR   |
| seq-per-policy       | (Optional) PBR Configured sequences per policy                     |
| nh-per-policy        | (Optional) PBR NextHop per policy                                  |
| ace-v4               | (Optional) PBR IPv4 ACEs   |
| ace-v6               | (Optional) PBR IPv6 ACEs   |
| ace-v4v6             | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                          |
| intf                 | (Optional) Interfaces with PBR policy                              |
| vrrp3                | (Optional) VRRPv3  |
| grp-per-intf         | (Optional) VRRPv3 groups per interface                             |
| grp-dft-timer        | (Optional) VRRPv3 groups with default timers (1 s)                 |
| grp-relax-timer      | (Optional) VRRPv3 groups with relaxed timers (3 s)                 |
| path-dft-timer       | (Optional) Pathways with one VRRPv3 group with default timer (1 s) |
| grp-and-path         | (Optional) VRRPv3 groups and pathways combined                     |
| igmp                 | (Optional) IGMP snooping over VXLAN                                |
| vlan                 | (Optional) VLAN  |
| vtep                 | (Optional) VTEP Peers  |
| underlay-mcast-group | (Optional) Underlay multicast group                                |
| fl                   | (Optional) VXLAN Flood and Learn                                   |
| vni                  | (Optional) VNI   |
| underlay-mcast-group | (Optional) Underlay multicast group                                |
| overlay-mac          | (Optional) Overlay MAC address                                     |
| vtep                 | (Optional) Remote VTEP   |
| ir-peer              | (Optional) Ingress replication peer                                |
| ir-vni               | (Optional) Ingress replication L2 VNI                              |

|                         |   |
|-------------------------|---|
| ir-mac                  | (Optional) Ingress replication MAC address            |
| vlan-mapping-under-intf | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED             |
| vlan-mapping-in-switch  | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED             |
| static-mac-to-vtep      | (Optional) Static MACs to remote VTEP                 |
| vlan-logical-port-vp    | (Optional) VLAN logical port VP count                 |
| vlan-per-fex-port       | (Optional) VLANs per FEX port                         |
| vni-for-vpc-gw          | (Optional) L2 routed VNIs for vPC-centralized gateway |
| igmp-group              | (Optional) IGMP group                                 |
| bgp                     | (Optional) BGP eVPN                                   |
| vni                     | (Optional) VNI  |
| svi                     | (Optional) SVI with Anycast Gateway                   |
| vrf                     | (Optional) VRF  |
| underlay-mcast-group    | (Optional) Underlay multicast group                   |
| vtep                    | (Optional) VTEP                                       |
| mac                     | (Optional) MAC address                                |
| host-route-v4           | (Optional) IPv4 host route                            |
| host-route-v6           | (Optional) IPv6 host route                            |
| overlay-lpm-route-v4    | (Optional) IPv4 LPM route                             |
| overlay-lpm-route-v6    | (Optional) IPv6 LPM route                             |
| vlan-logical-port-vp    | (Optional) VLAN logical port VP count                 |
| vlan-per-fex-port       | (Optional) VLAN per FEX port                          |
| igmp-group              | (Optional) IGMP group                                 |
| bgp-ir                  | (Optional) BGP eVPN Ingress Replication               |
| vni                     | (Optional) VNI  |
| svi                     | (Optional) SVI with Anycast Gateway                   |
| vrf                     | (Optional) VRF  |
| vtep                    | (Optional) VTEP                                       |
| mac                     | (Optional) MAC address                                |
| host-route-v4           | (Optional) IPv4 host route                            |

|                       |   |
|-----------------------|---|
| host-route-v6         | (Optional) IPv6 host route                          |
| overlay-lpm-route-v4  | (Optional) IPv4 LPM route                           |
| overlay-lpm-route-v6  | (Optional) IPv6 LPM route                           |
| vlan-logical-port-vp  | (Optional) VLAN logical port VP count               |
| vlan-per-fex-port     | (Optional) VLAN per FEX port                        |
| igmp-group            | (Optional) IGMP group                               |
| <i>__readonly__</i>   | (Optional) Read Only                                |
| <i>Info_Thres</i>     | (Optional) Configured info threshold percent        |
| <i>Warn_Thres</i>     | (Optional) Configured warning threshold percent     |
| <i>Crit_Thres</i>     | (Optional) Configured critical threshold percent    |
| TABLE_technology      | (Optional) Table technology                         |
| <i>Technology</i>     | (Optional) Technology name                          |
| TABLE_feature         | (Optional) Table feature                            |
| <i>Feature</i>        | (Optional) Feature name                             |
| <i>Verified_Scale</i> | (Optional) Verified scale                           |
| <i>Config_Scale</i>   | (Optional) Configured scale                         |
| TABLE_feature_stats   | (Optional) Table feature stats                      |
| <i>Used_Entries</i>   | (Optional) Used entries                             |
| <i>Cur_Util</i>       | (Optional) Current utilization                      |
| <i>YYYY</i>           | Enter year in YYYY format                           |
| <i>Month</i>          | Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec |
| <i>Date</i>           | Enter day of month in dd format                     |
| <i>Time</i>           | Enter hour, minutes, seconds as HH:MM:SS            |

**Command Mode**

- /exec



|                     |   |
|---------------------|---|
| vlan                | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| infra               | (Optional) Infrastructure   |
| mac                 | (Optional) MAC Address  |
| vlan                | (Optional) VLAN   |
| vlan-count          | (Optional) Number of VLANs  |
| stp                 | (Optional) Spanning Tree Protocol                                 |
| mst-instance        | (Optional) MST instances  |
| mst-vport           | (Optional) MST virtual ports                                      |
| rpvst-vport         | (Optional) RPVST virtual ports                                    |
| rpvst-vlan          | (Optional) RPVST VLANs  |
| isolated-portvlan   | (Optional) Total number of VLANs x ports with switchport isolated |
| multicast-routes    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| igmp-groups         | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| pim-neighbors       | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| outgoing-interfaces | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| routing-forwarding  | (Optional) Routing and forwarding                                 |
| route-v4            | (Optional) IPv4 Route   |
| route-v6            | (Optional) IPv6 Route   |
| outgoing-interface  | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| igmp                | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| group               | (Optional) IGMP snooping group                                    |
| pim                 | (Optional) PIM  |
| neighbor            | (Optional) PIM neighbor   |
| bfd-sessions        | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| eigrp-routes        | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| ipv4-arp            | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| ipv4-host-routes    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| ipv6-host-routes    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |
| ipv4-isis-routes    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                         |

|                   |   |
|-------------------|---|
| ospf-nbr          | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| ospf-lsa          | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| ospf-area         | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| ospf-vrf          | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| ospf-passive-intf | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| bfd               | (Optional) BFD                            |
| session           | (Optional) BFD session                    |
| bgp               | (Optional) BGP                            |
| neighbor          | (Optional) BGP neighbor                   |
| eigrp             | (Optional) EIGRP                          |
| route             | (Optional) EIGRP route                    |
| neighbor          | (Optional) EIGRP neighbor                 |
| hsrp              | (Optional) HSRP                           |
| mac               | (Optional) HSRP MAC                       |
| arp               | (Optional) ARP                            |
| arp-count         | (Optional) ARP count                      |
| ipv6-nd           | (Optional) IPv6 ND                        |
| nd-count          | (Optional) ND count                       |
| routing           | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| host-route-v4     | (Optional) IPv4 host route                |
| host-route-v6     | (Optional) IPv6 host route                |
| lpm-route-v4      | (Optional) IPv4 LPM route                 |
| lpm-route-v6      | (Optional) IPv6 LPM route                 |
| isis              | (Optional) IS-IS                          |
| adjacency         | (Optional) IS-ISv4 adjacency              |
| bfd-session       | (Optional) IS-ISv4 BFD session            |
| route             | (Optional) IS-ISv4 route                  |
| ospf              | (Optional) OSPF                           |
| neighbor          | (Optional) OSPF neighbor                  |



|                      |  |
|----------------------|--|
| lsa                  | (Optional) OSPF LSA  |
| area                 | (Optional) OSPF Area   |
| vrf                  | (Optional) VRF   |
| vrf-count            | (Optional) VRF count   |
| vrrp                 | (Optional) VRRP  |
| grp-per-intf         | (Optional) VRRP groups per interface                               |
| pbr                  | (Optional) PBR   |
| seq-per-policy       | (Optional) PBR Configured sequences per policy                     |
| nh-per-policy        | (Optional) PBR NextHop per policy                                  |
| ace-v4               | (Optional) PBR IPv4 ACEs   |
| ace-v6               | (Optional) PBR IPv6 ACEs   |
| ace-v4v6             | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                          |
| intf                 | (Optional) Interfaces with PBR policy                              |
| vrrp3                | (Optional) VRRPv3  |
| grp-per-intf         | (Optional) VRRPv3 groups per interface                             |
| grp-dft-timer        | (Optional) VRRPv3 groups with default timers (1 s)                 |
| grp-relax-timer      | (Optional) VRRPv3 groups with relaxed timers (3 s)                 |
| path-dft-timer       | (Optional) Pathways with one VRRPv3 group with default timer (1 s) |
| grp-and-path         | (Optional) VRRPv3 groups and pathways combined                     |
| igmp                 | (Optional) IGMP snooping over VXLAN                                |
| vlan                 | (Optional) VLAN  |
| vtep                 | (Optional) VTEP Peers  |
| underlay-mcast-group | (Optional) Underlay multicast group                                |
| fl                   | (Optional) VXLAN Flood and Learn                                   |
| vni                  | (Optional) VNI   |
| underlay-mcast-group | (Optional) Underlay multicast group                                |
| overlay-mac          | (Optional) Overlay MAC address                                     |
| vtep                 | (Optional) Remote VTEP   |
| ir-peer              | (Optional) Ingress replication peer                                |

|                         |   |
|-------------------------|---|
| ir-vni                  | (Optional) Ingress replication L2 VNI                 |
| ir-mac                  | (Optional) Ingress replication MAC address            |
| vlan-mapping-under-intf | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED             |
| vlan-mapping-in-switch  | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED             |
| static-mac-to-vtep      | (Optional) Static MACs to remote VTEP                 |
| vlan-logical-port-vp    | (Optional) VLAN logical port VP count                 |
| vlan-per-fex-port       | (Optional) VLANs per FEX port                         |
| vni-for-vpc-gw          | (Optional) L2 routed VNIs for vPC-centralized gateway |
| igmp-group              | (Optional) IGMP group                                 |
| bgp                     | (Optional) BGP eVPN                                   |
| vni                     | (Optional) VNI  |
| svi                     | (Optional) SVI with Anycast Gateway                   |
| vrf                     | (Optional) VRF  |
| underlay-mcast-group    | (Optional) Underlay multicast group                   |
| vtep                    | (Optional) VTEP                                       |
| mac                     | (Optional) MAC address                                |
| host-route-v4           | (Optional) IPv4 host route                            |
| host-route-v6           | (Optional) IPv6 host route                            |
| overlay-lpm-route-v4    | (Optional) IPv4 LPM route                             |
| overlay-lpm-route-v6    | (Optional) IPv6 LPM route                             |
| vlan-logical-port-vp    | (Optional) VLAN logical port VP count                 |
| vlan-per-fex-port       | (Optional) VLAN per FEX port                          |
| igmp-group              | (Optional) IGMP group                                 |
| bgp-ir                  | (Optional) BGP eVPN Ingress Replication               |
| vni                     | (Optional) VNI  |
| svi                     | (Optional) SVI with Anycast Gateway                   |
| vrf                     | (Optional) VRF  |
| vtep                    | (Optional) VTEP                                       |
| mac                     | (Optional) MAC address                                |

|                       |  |
|-----------------------|--|
| host-route-v4         | (Optional) IPv4 host route   |
| host-route-v6         | (Optional) IPv6 host route   |
| overlay-lpm-route-v4  | (Optional) IPv4 LPM route  |
| overlay-lpm-route-v6  | (Optional) IPv6 LPM route  |
| vlan-logical-port-vp  | (Optional) VLAN logical port VP count  |
| vlan-per-fex-port     | (Optional) VLAN per FEX port   |
| igmp-group            | (Optional) IGMP group  |
| history               | (Optional) Show scale history  |
| <i>num_intervals</i>  | (Optional) Number of intervals in history  |
| sort                  | (Optional) Sorted display  |
| current-scale         | (Optional) Sort records by current-scale value   |
| ascending             | (Optional) Sort current-scale values in ascending order  |
| descending            | (Optional) Sort current-scale values in descending order   |
| polled-timestamp      | (Optional) Sort records by polled-timestamp  |
| newest                | (Optional) Sort with newest record first   |
| oldest                | (Optional) Sort with oldest record first   |
| utilization           | (Optional) Show utilization statistics   |
| thresholds            | (Optional) Show thresholds statistics  |
| <i>__readonly__</i>   | (Optional) Read Only   |
| <i>Info_Thres</i>     | (Optional) Configured info threshold percent   |
| <i>Warn_Thres</i>     | (Optional) Configured warning threshold percent  |
| <i>Crit_Thres</i>     | (Optional) Configured critical threshold percent   |
| TABLE_technology      | (Optional) Table technology  |
| <i>Technology</i>     | (Optional) Technology name   |
| TABLE_feature         | (Optional) Table feature   |
| <i>Feature</i>        | (Optional) Feature name  |
| <i>Instance</i>       | (Optional) Instance name. Present if the record is for a specific instance on the system (i.e. module, port combination or specific application instance in a VDC) |
| <i>Verified_Scale</i> | (Optional) Verified scale  |

|                             |  |
|-----------------------------|--|
| <i>Config_Scale</i>         | (Optional) Configured scale                            |
| <i>TABLE_feature_stats</i>  | (Optional) Table feature stats                         |
| <i>Used_Entries</i>         | (Optional) Used entries                                |
| <i>Cur_Util</i>             | (Optional) Current utilization                         |
| <i>Thres_Exceeded</i>       | (Optional) Threshold type exceeded                     |
| <i>Polled_TS</i>            | (Optional) Polled timestamp                            |
| <i>Avg_Util</i>             | (Optional) Average utilization                         |
| <i>Week_Util</i>            | (Optional) 1 week utilization                          |
| <i>Week_TS</i>              | (Optional) 1 week peak utilization timestamp           |
| <i>Peak_Util</i>            | (Optional) Peak utilization                            |
| <i>Peak_TS</i>              | (Optional) Peak utilization timestamp                  |
| <i>Info_Thres_Exceed</i>    | (Optional) Number of times info threshold exceeded     |
| <i>Info_Thres_Exceed_TS</i> | (Optional) Last info threshold exceeded timestamp      |
| <i>Warn_Thres_Exceed</i>    | (Optional) Number of times warning threshold exceeded  |
| <i>Warn_Thres_Exceed_TS</i> | (Optional) Last warning threshold exceeded timestamp   |
| <i>Crit_Thres_Exceed</i>    | (Optional) Number of times critical threshold exceeded |
| <i>Crit_Thres_Exceed_TS</i> | (Optional) Last critical threshold exceeded timestamp  |

**Command Mode**

- /exec

# show ieth-header-decode

show ieth-header-decode <ieth>

## Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information                    |
| ieth-header-decode | Show decode of ieth header                         |
| <i>ieth</i>        | ieth header in hex (0xFF...) or string (FF..) form |

## Command Mode

- /exec

# show inband-telemetry exporter

```
show inband-telemetry exporter [ <exportername> ] [ __readonly__ <exporter> <description> <dest> <vrf>
<vrf_id> <vrf_resolved> <dest_udp> <source_intf> <source_ip> <dscp> <seq_num> ]
```

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| inband-telemetry    | Show INT information            |
| exporter            | Show INT Exporter Configuration |
| <i>exportername</i> | (Optional) Specify an exporter  |
| <i>__readonly__</i> | (Optional)                      |
| <i>exporter</i>     | (Optional)                      |
| <i>description</i>  | (Optional)                      |
| <i>dest</i>         | (Optional)                      |
| <i>vrf</i>          | (Optional)                      |
| <i>vrf_id</i>       | (Optional)                      |
| <i>vrf_resolved</i> | (Optional)                      |
| <i>dest_udp</i>     | (Optional)                      |
| <i>source_intf</i>  | (Optional)                      |
| <i>source_ip</i>    | (Optional)                      |
| <i>dscp</i>         | (Optional)                      |
| <i>seq_num</i>      | (Optional)                      |

## Command Mode

- /exec

# show inband-telemetry flow-profile

```
show inband-telemetry flow-profile [ <flow-profilename> ] [ __readonly__ <flow-profile> <description>
<dscp> <age> <latency> ]
```

## Syntax Description

|                         |                                     |
|-------------------------|-------------------------------------|
| show                    | Show running system information     |
| inband-telemetry        | Show INT information                |
| flow-profile            | Show INT flow Profile Configuration |
| <i>flow-profilename</i> | (Optional) Specify an flow Profile  |
| <i>__readonly__</i>     | (Optional)                          |
| <i>flow-profile</i>     | (Optional)                          |
| <i>description</i>      | (Optional)                          |
| <i>dscp</i>             | (Optional)                          |
| <i>age</i>              | (Optional)                          |
| <i>latency</i>          | (Optional)                          |

## Command Mode

- /exec

## show inband-telemetry monitor

```
show inband-telemetry monitor [ <monitorname> [ cache [ detailed ] ] ] [ __readonly__ <monitor> <use_count>
<description> <record> <event> <exporter> <bucket_id> <src_addr> <dest_addr> <watchlist> ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information           |
| inband-telemetry    | Show INT information                      |
| monitor             | Show Monitor Configuration                |
| <i>monitorname</i>  | (Optional) Specify a monitor              |
| cache               | (Optional) Flow monitor cache contents    |
| detailed            | (Optional) Show the entire cache contents |
| <i>__readonly__</i> | (Optional)                                |
| <i>monitor</i>      | (Optional)                                |
| <i>use_count</i>    | (Optional)                                |
| <i>description</i>  | (Optional)                                |
| <i>record</i>       | (Optional)                                |
| <i>event</i>        | (Optional)                                |
| <i>exporter</i>     | (Optional)                                |
| <i>bucket_id</i>    | (Optional)                                |
| <i>src_addr</i>     | (Optional)                                |
| <i>dest_addr</i>    | (Optional)                                |
| <i>watchlist</i>    | (Optional)                                |

### Command Mode

- /exec



# show inband-telemetry queue-profile

```
show inband-telemetry queue-profile [ <queue-profilename> | queue-profile-default ] [ __readonly__
<queue-profile> <description> <depth> <latency> ]
```

## Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information                         |
| inband-telemetry         | Show INT information                                    |
| queue-profile            | Show INT Queue Profile Configuration                    |
| <i>queue-profilename</i> | (Optional) Specify an Queue Profile                     |
| queue-profile-default    | (Optional) Show INT Queue Profile Default Configuration |
| __readonly__             | (Optional)  |
| <i>queue-profile</i>     | (Optional)  |
| <i>description</i>       | (Optional)  |
| <i>depth</i>             | (Optional)  |
| <i>latency</i>           | (Optional)  |

## Command Mode

- /exec

# show inband-telemetry record

show inband-telemetry record [ { <recordname> } ] [ \_\_readonly\_\_ <record> <description> <use\_count> ]

## Syntax Description

|                    |                                 |
|--------------------|---------------------------------|
| show               | Show running system information |
| inband-telemetry   | Show INT information            |
| record             | Show Record Configuration       |
| <i>recordname</i>  | (Optional) Specify a record     |
| __readonly__       | (Optional)                      |
| <i>record</i>      | (Optional)                      |
| <i>description</i> | (Optional)                      |
| <i>use_count</i>   | (Optional)                      |

## Command Mode

- /exec

# show inband-telemetry sessions

show inband-telemetry sessions [ <monitorname> ] [ \_\_readonly\_\_ <monitor> ]

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| inband-telemetry    | Show INT information            |
| sessions            | Show Session Configuration      |
| <i>monitorname</i>  | (Optional) Specify a monitor    |
| <i>__readonly__</i> | (Optional)                      |
| <i>monitor</i>      | (Optional)                      |

## Command Mode

- /exec

## show inband-telemetry watchlist

```
show inband-telemetry watchlist [ { <watchlistname> } ] [ __readonly__ <watchlist> <use_count>
<description> <num_aces> <ace_seq_num> <ace_action> <ace_type> <ace_sip> <ace_sip_len> <ace_dip>
<ace_dip_len> ]
```

### Syntax Description

|                      |                                 |
|----------------------|---------------------------------|
| show                 | Show running system information |
| inband-telemetry     | Show INT information            |
| watchlist            | Show watchlist Configuration    |
| <i>watchlistname</i> | (Optional) Specify a watchlist  |
| <i>__readonly__</i>  | (Optional)                      |
| <i>watchlist</i>     | (Optional)                      |
| <i>use_count</i>     | (Optional)                      |
| <i>description</i>   | (Optional)                      |
| <i>num_aces</i>      | (Optional)                      |
| <i>ace_seq_num</i>   | (Optional)                      |
| <i>ace_action</i>    | (Optional)                      |
| <i>ace_type</i>      | (Optional)                      |
| <i>ace_sip</i>       | (Optional)                      |
| <i>ace_sip_len</i>   | (Optional)                      |
| <i>ace_dip</i>       | (Optional)                      |
| <i>ace_dip_len</i>   | (Optional)                      |

### Command Mode

- /exec

# show incompatibility-all system

```
show incompatibility-all { system <uri0> | nxos <uri1> } [ __readonly__ { [ TABLE_incompat_all <Str1> [ <Serv> ] [ <Cap> ] [ <Desc> ] [ <Req> ] [ <Enable> ] ] [ <Dynamic> ] } ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                        |
| incompatibility-all | Show incompatible configurations for the entire system |
| system              | show incompatibilities with an image                   |
| <i>uri0</i>         | Enter image uri  |
| nxos                | show incompatibilities with an image                   |
| <i>uri1</i>         | Enter image uri  |
| <i>__readonly__</i> | (Optional)   |
| TABLE_incompat_all  | (Optional) Show incompatibility system table           |
| <i>Str1</i>         | (Optional)   |
| <i>Serv</i>         | (Optional)   |
| <i>Cap</i>          | (Optional)   |
| <i>Desc</i>         | (Optional)   |
| <i>Req</i>          | (Optional)   |
| <i>Enable</i>       | (Optional)   |
| <i>Dynamic</i>      | (Optional)   |

## Command Mode

- /exec

# show incompatibility system

```
show incompatibility { system <uri0> | nxos <uri1> } [ __readonly__ { [ TABLE_incompat <Str1> [ <Serv>
] [ <Cap> ] [ <Desc> ] [ <Req> ] [ <Enable> ] ] [ <Dynamic> ] } ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information              |
| incompatibility     | Show incompatible configurations             |
| system              | show incompatibilities with an image         |
| <i>uri0</i>         | Enter image uri                              |
| nxos                | show incompatibilities with an image         |
| <i>uri1</i>         | Enter image uri                              |
| <i>__readonly__</i> | (Optional)                                   |
| TABLE_incompat      | (Optional) Show incompatibility system table |
| <i>Str1</i>         | (Optional)                                   |
| <i>Serv</i>         | (Optional)                                   |
| <i>Cap</i>          | (Optional)                                   |
| <i>Desc</i>         | (Optional)                                   |
| <i>Req</i>          | (Optional)                                   |
| <i>Enable</i>       | (Optional)                                   |
| <i>Dynamic</i>      | (Optional)                                   |

## Command Mode

- /exec

# show install

```
show install { inactive | active [ brief ] | committed } [ __readonly__ { <curr_nxos_image> [ TABLE_smu_list
<install_smu_id> + ] [ TABLE_package_list <package_id> + ] [ TABLE_base_package_list <base_package_id>
+ ] } ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information             |
| install                 | Install related show commands               |
| inactive                | Inactive packages                           |
| active                  | Active packages                             |
| brief                   | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| committed               | Committed packages                          |
| __readonly__            | (Optional)                                  |
| <i>curr_nxos_image</i>  | (Optional) NXOS image                       |
| TABLE_smu_list          | (Optional)                                  |
| <i>install_smu_id</i>   | (Optional) install operation smu identifier |
| TABLE_package_list      | (Optional)                                  |
| <i>package_id</i>       | (Optional) Package name                     |
| TABLE_base_package_list | (Optional)                                  |
| <i>base_package_id</i>  | (Optional) Base package name                |

## Command Mode

- /exec

## show install all failed-standby

show install all failed-standby [ \_\_readonly\_\_ { [ TABLE\_installFailStandby <Str1> ] } ]

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information                     |
| install                  | Show the software install impact between two images |
| all                      | Show install all information                        |
| failed-standby           | show log from failed standby                        |
| __readonly__             | (Optional)  |
| TABLE_installFailStandby | (Optional) Install failed-standby table             |
| <i>Str1</i>              | (Optional)  |

### Command Mode

- /exec



## show install all failure-reason

```
show install all failure-reason [ __readonly__ { [ TABLE_installFailReason <installFailReasonStr> ] } ]
```

### Syntax Description

|                             |   |
|-----------------------------|---|
| show                        | Show running system information                     |
| install                     | Show the software install impact between two images |
| all                         | show install all information                        |
| failure-reason              | Show failure reason for the last install all        |
| __readonly__                | (Optional)  |
| TABLE_installFailReason     | (Optional) Install failure-reason table             |
| <i>installFailReasonStr</i> | (Optional)  |

### Command Mode

- /exec

# show install all impact

show install all impact [ nxos <uri> ] + [ non-disruptive ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                     |
| install        | Show the software install impact between two images |
| all            | show install all information                        |
| impact         | show impact of the install all command              |
| nxos           | (Optional) boot-variable name                       |
| <i>uri</i>     | (Optional) Enter image uri                          |
| non-disruptive | (Optional) non-disruptive show install              |

## Command Mode

- /exec

# show install all status

show install all status

## Syntax Description

|         |   |
|---------|---|
| show    | Show running system information                     |
| install | Show the software install impact between two images |
| all     | show install all information                        |
| status  | show status of the current or last install all      |

## Command Mode

- /exec

# show install all time-stats

show install all time-stats [ detail | handshake ]

## Syntax Description

|            |   |
|------------|---|
| show       | Show running system information   |
| install    | Show the software install impact between two images   |
| all        | show install all information  |
| time-stats | show overall time statistics of the last install all  |
| detail     | (Optional) show detailed time statistics of the last install all                              |
| handshake  | (Optional) show handshake time statistics for sysmgr and lc processes of the last install all |

## Command Mode

- /exec

# show install log

```
show install log { [ <id> | from <id1> ] [ detail ] [ reverse ] [ last ] } [ __readonly__ { current_time <curr_time>
[ TABLE_show_log_output <install_id> <install_log_entry> + ] } ]
```

## Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information                              |
| install                  | Install related show commands                                |
| log                      | log  |
| <i>id</i>                | (Optional) Install Identifies                                |
| from                     | (Optional) Starting at this install identifier               |
| <i>id1</i>               | (Optional) Install Identifier                                |
| detail                   | (Optional) Detailed information including impacted processes |
| reverse                  | (Optional) Displays the logs in reverse order                |
| last                     | (Optional) Display the logs for last install operation       |
| __readonly__             | (Optional)   |
| current_time             | (Optional) current time                                      |
| <i>curr_time</i>         | (Optional) current time                                      |
| TABLE_show_log_output    | (Optional)   |
| <i>install_id</i>        | (Optional) install operation id                              |
| <i>install_log_entry</i> | (Optional) install log entry                                 |

## Command Mode

- /exec

# show install mode

show install mode [ *\_\_readonly\_\_* { *<install\_mode>* *<image\_type>* } ]

## Syntax Description

|                     |                                       |
|---------------------|---------------------------------------|
| show                | Show running system information       |
| install             | Install related show commands         |
| mode                | Display mode and type of booted image |
| <i>__readonly__</i> | (Optional)                            |
| <i>install_mode</i> | (Optional) install mode               |
| <i>image_type</i>   | (Optional) image type                 |

## Command Mode

- /exec

# show install packages

```
show install packages [ __readonly__ { <curr_nxos_image> [ TABLE_package_list <package_name>
<version> <state> <signature> ] } ]
```

## Syntax Description

|                           |                                 |
|---------------------------|---------------------------------|
| show                      | Show running system information |
| install                   | Install related show commands   |
| packages                  | All packages                    |
| <i>__readonly__</i>       | (Optional)                      |
| <i>curr_nxos_image</i>    | (Optional) NXOS image           |
| <i>TABLE_package_list</i> | (Optional)                      |
| <i>package_name</i>       | (Optional) Package name         |
| <i>version</i>            | (Optional) Package version      |
| <i>state</i>              | (Optional) package state        |
| <i>signature</i>          | (Optional) Signature            |

## Command Mode

- /exec

## show install patches

```
show install patches [ __readonly__ { <curr_nxos_image> [ TABLE_smu_list <install_smu_id>
<install_smu_state> [ TABLE_module_list <install_modno> <install_mod_smu_state> ] ] } ]
```

### Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information             |
| install                      | Install related show commands               |
| patches                      | All Patches                                 |
| <i>__readonly__</i>          | (Optional)                                  |
| <i>TABLE_smu_list</i>        | (Optional)                                  |
| <i>curr_nxos_image</i>       | (Optional) NXOS image                       |
| <i>install_smu_id</i>        | (Optional) install operation smu identifier |
| <i>install_smu_state</i>     | (Optional) install operation smu state      |
| <i>TABLE_module_list</i>     | (Optional)                                  |
| <i>install_modno</i>         | (Optional) install operation module number  |
| <i>install_mod_smu_state</i> | (Optional) install operation module state   |

### Command Mode

- /exec



# show interface

```
show interface <ifloop> [ __readonly__ TABLE_interface <interface> [ <state> ] [ <admin_state> ] [
<share_state> ] [ <state_rsn> ] [ <state_rsn_desc> ] [ <desc> ] [ <eth_bundle> ] [ <mgmt_sfp> ] [ <mgmt_type> ]
] [ <eth_eee_state> ] [ <eth_dce_mode> ] [ <vpc_status> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [
<eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix> ]
] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_encap_vlan> ] [ <encapsulation> ] [ <eth_dly> ] [ <eth_reliability> ] [
<eth_txload> ] [ <eth_rxload> ] [ <eth_loopback> ] [ <eth_keepalive> ] [ <eth_duplex> ] [ <eth_speed> ] [
<eth_mode> ] [ <eth_ratemode> ] [ <eth_autoneg> ] [ <eth_beacon> ] [ <eth_media> ] [ <eth_in_flowctrl> ]
] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [ <eth_swt_monitor> ] [ <eth_ethertype> ] [ <eth_members> ] [
<eth_clk_mode> ] [ <eth_arp_type> ] [ <eth_arp_timeout> ] [ <eth_last_in> ] [ <eth_last_out> ] [
<eth_out_hang> ] [ <eth_clear_counters> ] [ <eth_link_flapped> ] [ <eth_inq_size> ] [ <eth_inq_max> ] [
<eth_inq_drops> ] [ <eth_inq_flush> ] [ <eth_out_drop> ] [ <eth_q_strategy> ] [ <eth_outq_size> ] [
<eth_outq_max> ] [ <eth_reset_cnt> ] [ <loop_in_pkts> ] [ <loop_in_bytes> ] [ <loop_in_mcast> ] [
<loop_in_compressed> ] [ <loop_in_errors> ] [ <loop_in_frame> ] [ <loop_in_overrun> ] [ <loop_in_fifo> ]
] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [ <loop_out_underruns> ] [ <loop_out_errors> ] [
<loop_out_collisions> ] [ <loop_out_fifo> ] [ <loop_out_carriers> ] ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                       |
| interface             | Show interface status and information                 |
| <i>ifloop</i>         | Enter interface type and number in module/slot format |
| <i>__readonly__</i>   | (Optional) Read Only                                  |
| <i>interface</i>      | (Optional) Interface index                            |
| TABLE_interface       | (Optional) show interface                             |
| <i>state</i>          | (Optional) Interface state                            |
| <i>admin_state</i>    | (Optional) Interface admin state                      |
| <i>share_state</i>    | (Optional) Interface ownership                        |
| <i>state_rsn</i>      | (Optional) Interface state reason                     |
| <i>state_rsn_desc</i> | (Optional) Interface state reason detailed            |
| <i>desc</i>           | (Optional) Interface description                      |
| <i>mgmt_sfp</i>       | (Optional) mgmt sfp                                   |
| <i>mgmt_type</i>      | (Optional) mgmt type                                  |
| <i>eth_bundle</i>     | (Optional) Belongs to bundle                          |
| <i>eth_eee_state</i>  | (Optional) EEE state                                  |
| <i>eth_dce_mode</i>   | (Optional) DCE mode description                       |

|                         |                                  |
|-------------------------|----------------------------------|
| <i>vpc_status</i>       | (Optional) VPC status            |
| <i>eth_rsn_fac</i>      | (Optional) State reason facility |
| <i>eth_rsn_code</i>     | (Optional) State reason code     |
| <i>eth_hw_desc</i>      | (Optional) HW description        |
| <i>eth_hw_addr</i>      | (Optional) HW address            |
| <i>eth_bia_addr</i>     | (Optional) bia address           |
| <i>eth_ip_addr</i>      | (Optional) IP Address            |
| <i>eth_ip_mask</i>      | (Optional) IP address mask       |
| <i>eth_ip_prefix</i>    | (Optional) IP Prefix             |
| <i>eth_mtu</i>          | (Optional) MTU                   |
| <i>eth_bw</i>           | (Optional) Bandwidth             |
| <i>eth_encap_vlan</i>   | (Optional) Encapsulation Vlan    |
| <i>encapsulation</i>    | (Optional) Encapsulation         |
| <i>eth_dly</i>          | (Optional) Delay                 |
| <i>eth_reliability</i>  | (Optional) Reliability           |
| <i>eth_txload</i>       | (Optional) Tx load               |
| <i>eth_rxload</i>       | (Optional) Rx load               |
| <i>eth_loopback</i>     | (Optional) Loopback              |
| <i>eth_keepalive</i>    | (Optional) Keepalive             |
| <i>eth_duplex</i>       | (Optional) Duplex                |
| <i>eth_speed</i>        | (Optional) Speed                 |
| <i>eth_mode</i>         | (Optional) Port mode             |
| <i>eth_ratemode</i>     | (Optional) Rate mode             |
| <i>eth_autoneg</i>      | (Optional) Autonegotiation       |
| <i>eth_beacon</i>       | (Optional) Beacon                |
| <i>eth_media</i>        | (Optional) Media type            |
| <i>eth_in_flowctrl</i>  | (Optional) Input flowcontrol     |
| <i>eth_out_flowctrl</i> | (Optional) Output flowcontrol    |
| <i>eth_mdix</i>         | (Optional) Mdx                   |

|                           |   |
|---------------------------|---|
| <i>eth_swt_monitor</i>    | (Optional) Switchport Monitor                       |
| <i>eth_etherstype</i>     | (Optional) EtherType                                |
| <i>eth_members</i>        | (Optional) Members in this channel                  |
| <i>eth_clk_mode</i>       | (Optional) Clock mode                               |
| <i>eth_arp_type</i>       | (Optional) ARP type                                 |
| <i>eth_arp_timeout</i>    | (Optional) ARP timeout                              |
| <i>eth_last_in</i>        | (Optional) Last input                               |
| <i>eth_last_out</i>       | (Optional) Last output                              |
| <i>eth_out_hang</i>       | (Optional) Last output hang                         |
| <i>eth_clear_counters</i> | (Optional) Last clearing of show interface counters |
| <i>eth_link_flapped</i>   | (Optional) Last link flapped                        |
| <i>eth_inq_size</i>       | (Optional) Input queue size                         |
| <i>eth_inq_max</i>        | (Optional) Input queue max                          |
| <i>eth_inq_drops</i>      | (Optional) Input queue drops                        |
| <i>eth_inq_flush</i>      | (Optional) Input queue flushes                      |
| <i>eth_out_drop</i>       | (Optional) Output drops                             |
| <i>eth_q_strategy</i>     | (Optional) Queueing strategy                        |
| <i>eth_outq_size</i>      | (Optional) Output queue size                        |
| <i>eth_outq_max</i>       | (Optional) Output queue max                         |
| <i>eth_reset_cntr</i>     | (Optional) Interface resets                         |
| <i>loop_in_pkts</i>       | (Optional) Input packets                            |
| <i>loop_in_bytes</i>      | (Optional) Input bytes                              |
| <i>loop_in_mcast</i>      | (Optional) Input multicast                          |
| <i>loop_in_compressed</i> | (Optional) Input compressed                         |
| <i>loop_in_errors</i>     | (Optional) Input errors                             |
| <i>loop_in_frame</i>      | (Optional) Input frame errors                       |
| <i>loop_in_overrun</i>    | (Optional) Input overrun                            |
| <i>loop_in_fifo</i>       | (Optional) Input fifo                               |
| <i>loop_out_pkts</i>      | (Optional) Output packets                           |

|                            |                                  |
|----------------------------|----------------------------------|
| <i>loop_out_bytes</i>      | (Optional) Output bytes          |
| <i>loop_out_underruns</i>  | (Optional) Output underruns      |
| <i>loop_out_errors</i>     | (Optional) Output errors         |
| <i>loop_out_collisions</i> | (Optional) Output collisions     |
| <i>loop_out_fifo</i>       | (Optional) Output fifo           |
| <i>loop_out_carriers</i>   | (Optional) Output carrier errors |

**Command Mode**

- /exec

# show interface

```
show interface <ifid_brief1> [ brief ] [ __readonly__ ] [ { TABLE_interface_vfc [ <interface_vfc> ] [
<vsan_brief> ] [ <oper_port_state> ] [ <port_state> ] [ <bound_interface> ] [ <port_desc> ] [ <port_des> ] [
<mgmt_hw_desc1> ] [ <mgmt_hw_addr1> ] [ <port_name> ] [ <hardware> ] [ <sfp> ] [ <port_wwn> ] [
<peer_port_wwn> ] [ <admin_mode> ] [ <admin_trunk_mode> ] [ <snmp_trap> ] [ <status> ] [ <state_rsn1>
] [ <fcot_info> ] [ <bind_info> ] [ <bind_mac> ] [ <bind_type> ] [ <port_mode> ] [ <fcid> ] [ <cfg_port_vsan>
] [ <vsan> ] [ <port_rate_mode> ] [ <oper_speed> ] [ <admin_speed> ] [ <port_channel> ] [ <ip_addr1> ] [
<oper_txbbcredit> ] [ <oper_rxbbcredit> ] [ <port_bb_scn> ] [ <admin_rxbufsize> ] [ <admin_port_encap>
] [ <admin_beacon_mode> ] [ <admin_fec_state> ] [ <oper_fec_state> ] [ <bundle_if_index> ] [
<trkd_if_index> ] [ <trk_cfg_vsans> ] [ <trkd_port_state> ] [ <num_ports> ] [ TABLE_trk_intf [ <trk_intf>
] ] [ <info_type_num> ] [ <info_model_num> ] [ <info_manufacturer> ] [ <info_port_id> ] [ <active_vsan>
] [ <trunk_vsan_up> ] [ <trunk_vsan_isolated> ] [ <trunk_vsan_initializing> ] [ <in_bps> ] [ <in_byps> ] [
<in_fps> ] [ <out_bps> ] [ <out_byps> ] [ <out_fps> ] [ <total_in_frames> ] [ <total_in_bytes> ] [
<total_in_discards> ] [ <total_in_errors> ] [ <invalid_crc> ] [ <unknown_class_frames> ] [ <frames_too_long>
] [ <frames_too_short> ] [ <total_out_frames> ] [ <total_out_bytes> ] [ <total_out_discards> ] [
<total_out_errors> ] [ <in_ols> ] [ <in_lrr> ] [ <in_nos> ] [ <in_loop_inits> ] [ <out_ols> ] [ <out_lrr> ] [
<out_nos> ] [ <out_loop_inits> ] [ <rx_b2b_perf_buff> ] [ <rx_b2b_credit> ] [ <tx_b2b_credit> ] [
<tx_b2b_low_pri_cre> ] [ <fcoe_in_pkts> ] [ <fcoe_in_octets> ] [ <fcoe_out_pkts> ] [ <fcoe_out_octets> ]
] [ TABLE_members [ <port_channel_member> ] ] [ <interface_last_changed> ] [ <time_last_cleared> ] } ] [
{ TABLE_interface_brief_vfc [ <interface_vfc> ] [ <vsan_brief> ] [ <admin_mode> ] [ <admin_trunk_mode>
] [ <status> ] [ <fcot_info> ] [ <bind_info> ] [ <bind_type> ] [ <bind_mac> ] [ <port_rate_mode> ] [
<oper_speed> ] [ <port_channel> ] [ <ip_addr> ] } ] ]
```

## Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information                       |
| interface              | Show interface status and information                 |
| <i>ifid_brief1</i>     | Enter interface type and number in module/slot format |
| brief                  | (Optional) Show brief info of interface               |
| __readonly__           | (Optional) Read Only                                  |
| <i>interface_vfc</i>   | (Optional) Interface index                            |
| TABLE_interface_vfc    | (Optional) show interface                             |
| <i>vsan_brief</i>      | (Optional) vsan for brief                             |
| <i>oper_port_state</i> | (Optional) oper port state                            |
| <i>port_state</i>      | (Optional) port state                                 |
| <i>bound_interface</i> | (Optional) bound interface                            |
| <i>port_desc</i>       | (Optional) port description                           |
| <i>port_des</i>        | (Optional) port description                           |
| <i>mgmt_hw_desc1</i>   | (Optional) HW description                             |

|                         |                                     |
|-------------------------|-------------------------------------|
| <i>mgmt_hw_addr1</i>    | (Optional) HW address               |
| <i>port_name</i>        | (Optional) port description         |
| <i>hardware</i>         | (Optional) Hardware is              |
| <i>sfp</i>              | (Optional) sfp                      |
| <i>port_wwn</i>         | (Optional) port wwn                 |
| <i>peer_port_wwn</i>    | (Optional) peer port wwn            |
| <i>admin_mode</i>       | (Optional) admin mode               |
| <i>admin_trunk_mode</i> | (Optional) admin trunk mode         |
| <i>snmp_trap</i>        | (Optional) snmp trap                |
| <i>status</i>           | (Optional) Status                   |
| <i>state_rsn1</i>       | (Optional) state reason             |
| <i>fcot_info</i>        | (Optional) fcot info                |
| <i>bind_info</i>        | (Optional) bind interface           |
| <i>bind_mac</i>         | (Optional) bind mac                 |
| <i>bind_type</i>        | (Optional) bind type                |
| <i>port_mode</i>        | (Optional) port mode                |
| <i>fcid</i>             | (Optional) fcid                     |
| <i>cfg_port_vsan</i>    | (Optional) config port vsan         |
| <i>vsan</i>             | (Optional) vsan for brief           |
| <i>port_rate_mode</i>   | (Optional) operation port rate mode |
| <i>oper_speed</i>       | (Optional) speed                    |
| <i>admin_speed</i>      | (Optional) admin speed              |
| <i>port_channel</i>     | (Optional) port channel             |
| <i>ip_addr1</i>         | (Optional) Ip address               |
| <i>oper_txbbcredit</i>  | (Optional) oper tx bbcredit         |
| <i>oper_rxbbcredit</i>  | (Optional) oper rx bbcredit         |
| <i>port_bb_scn</i>      | (Optional) port bb scn              |
| <i>admin_rxbufsize</i>  | (Optional) admin rx bufsize         |
| <i>admin_port_encap</i> | (Optional) admin port encap         |

|                                |                                    |
|--------------------------------|------------------------------------|
| <i>admin_beacon_mode</i>       | (Optional) admin beacon mode       |
| <i>admin_fec_state</i>         | (Optional) admin fec state         |
| <i>oper_fec_state</i>          | (Optional) oper fec state          |
| <i>bundle_if_index</i>         | (Optional) bundle if index         |
| <i>trkd_if_index</i>           | (Optional) Trunk interfaces        |
| <i>trk_cfg_vsans</i>           | (Optional) Trunk vsans             |
| <i>trkd_port_state</i>         | (Optional) trunk port state        |
| <i>num_ports</i>               | (Optional) number of ports         |
| TABLE_trk_intf                 | (Optional) trunk interfaces        |
| <i>trk_intf</i>                | (Optional) track interface         |
| <i>info_type_num</i>           | (Optional) info type num           |
| <i>info_model_num</i>          | (Optional) info model num          |
| <i>info_manufacturer</i>       | (Optional) info manufacturer       |
| <i>info_port_id</i>            | (Optional) info port id            |
| <i>active_vsan</i>             | (Optional) allowed and active vsan |
| <i>trunk_vsan_up</i>           | (Optional) trunk vsan up           |
| <i>trunk_vsan_isolated</i>     | (Optional) trunk vsan isolated     |
| <i>trunk_vsan_initializing</i> | (Optional) trunk vsan initializing |
| <i>in_bps</i>                  | (Optional) input bits/sec          |
| <i>in_byyps</i>                | (Optional) input bytes/sec         |
| <i>in_fps</i>                  | (Optional) input frames/sec        |
| <i>out_bps</i>                 | (Optional) output bits/sec         |
| <i>out_byyps</i>               | (Optional) output bytes/sec        |
| <i>out_fps</i>                 | (Optional) output frames/sec       |
| <i>total_in_frames</i>         | (Optional) total in frames         |
| <i>total_in_bytes</i>          | (Optional) total in bytes          |
| <i>total_in_discards</i>       | (Optional) total in discards       |
| <i>total_in_errors</i>         | (Optional) total in errors         |
| <i>invalid_crc</i>             | (Optional) invalid crc             |

|                               |  |
|-------------------------------|--|
| <i>unknown_class_frames</i>   | (Optional) unknown class frames                    |
| <i>frames_too_long</i>        | (Optional) frames too long                         |
| <i>frames_too_short</i>       | (Optional) frames too short                        |
| <i>total_out_frames</i>       | (Optional) total out frames                        |
| <i>total_out_bytes</i>        | (Optional) total out bytes                         |
| <i>total_out_discards</i>     | (Optional) total out discards                      |
| <i>total_out_errors</i>       | (Optional) total out errors                        |
| <i>in_ols</i>                 | (Optional) input OLS                               |
| <i>in_lrr</i>                 | (Optional) input LRR                               |
| <i>in_nos</i>                 | (Optional) input NOS                               |
| <i>in_loop_inits</i>          | (Optional) input loop inits                        |
| <i>out_ols</i>                | (Optional) output OLS                              |
| <i>out_lrr</i>                | (Optional) output LRR                              |
| <i>out_nos</i>                | (Optional) output NOS                              |
| <i>out_loop_inits</i>         | (Optional) output loop inits                       |
| <i>rx_b2b_perf_buff</i>       | (Optional) rx b2b performance buff                 |
| <i>rx_b2b_credit</i>          | (Optional) rx b2b credit                           |
| <i>tx_b2b_credit</i>          | (Optional) tx b2b credit                           |
| <i>tx_b2b_low_pri_cre</i>     | (Optional) tx b2b low pri credit                   |
| <i>fcoe_in_pkts</i>           | (Optional) fcoe in pkts                            |
| <i>fcoe_in_octets</i>         | (Optional) fcoe in octets                          |
| <i>fcoe_out_pkts</i>          | (Optional) fcoe out pkts                           |
| <i>fcoe_out_octets</i>        | (Optional) fcoe out octets                         |
| TABLE_members                 | (Optional) table for port-channel member interface |
| <i>port_channel_member</i>    | (Optional) port-channel member interface           |
| <i>interface_last_changed</i> | (Optional) interface last changed                  |
| <i>time_last_cleared</i>      | (Optional) counters last cleared                   |
| TABLE_interface_brief_vfc     | (Optional) show interface brief table              |
| <i>interface_vfc</i>          | (Optional) Interface index                         |



|                         |                                |
|-------------------------|--------------------------------|
| <i>vsan_brief</i>       | (Optional) vsan brief          |
| <i>admin_mode</i>       | (Optional) admin mode          |
| <i>admin_trunk_mode</i> | (Optional) admin trunk mode    |
| <i>status</i>           | (Optional) status              |
| <i>fcot_info</i>        | (Optional) fcot info           |
| <i>bind_info</i>        | (Optional) bind interface      |
| <i>bind_type</i>        | (Optional) bind type           |
| <i>bind_mac</i>         | (Optional) bind mac address    |
| <i>port_rate_mode</i>   | (Optional) rate mode           |
| <i>oper_speed</i>       | (Optional) speed               |
| <i>port_channel</i>     | (Optional) port channel number |
| <i>ip_addr</i>          | (Optional) IP address          |

**Command Mode**

- /exec



|                         |                                     |
|-------------------------|-------------------------------------|
| <i>mgmt_hw_desc1</i>    | (Optional) HW description           |
| <i>mgmt_hw_addr1</i>    | (Optional) HW address               |
| <i>port_name</i>        | (Optional) port description         |
| <i>hardware</i>         | (Optional) Hardware is              |
| <i>sfp</i>              | (Optional) sfp                      |
| <i>port_wwn</i>         | (Optional) port wwn                 |
| <i>peer_port_wwn</i>    | (Optional) peer port wwn            |
| <i>admin_mode</i>       | (Optional) admin mode               |
| <i>admin_trunk_mode</i> | (Optional) admin trunk mode         |
| <i>snmp_trap</i>        | (Optional) snmp trap                |
| <i>status</i>           | (Optional) Status                   |
| <i>state_rsn1</i>       | (Optional) state reason             |
| <i>fcot_info</i>        | (Optional) fcot info                |
| <i>bind_info</i>        | (Optional) bind interface           |
| <i>bind_mac</i>         | (Optional) bind mac                 |
| <i>bind_type</i>        | (Optional) bind type                |
| <i>port_mode</i>        | (Optional) port mode                |
| <i>fcid</i>             | (Optional) fcid                     |
| <i>cfg_port_vsan</i>    | (Optional) config port vsan         |
| <i>vsan</i>             | (Optional) vsan for brief           |
| <i>port_rate_mode</i>   | (Optional) operation port rate mode |
| <i>oper_speed</i>       | (Optional) speed                    |
| <i>admin_speed</i>      | (Optional) admin speed              |
| <i>port_channel</i>     | (Optional) port channel             |
| <i>ip_addr1</i>         | (Optional) Ip address               |
| <i>oper_txbbcredit</i>  | (Optional) oper tx bbcredit         |
| <i>oper_rxbbcredit</i>  | (Optional) oper rx bbcredit         |
| <i>port_bb_scn</i>      | (Optional) port bb scn              |
| <i>admin_rxbufsize</i>  | (Optional) admin rx bufsize         |

|                                |                                    |
|--------------------------------|------------------------------------|
| <i>admin_port_encap</i>        | (Optional) admin port encap        |
| <i>admin_beacon_mode</i>       | (Optional) admin beacon mode       |
| <i>admin_fec_state</i>         | (Optional) admin fec state         |
| <i>oper_fec_state</i>          | (Optional) oper fec state          |
| <i>bundle_if_index</i>         | (Optional) bundle if index         |
| <i>trkd_if_index</i>           | (Optional) Trunk interfaces        |
| <i>trk_cfg_vsans</i>           | (Optional) Trunk vsans             |
| <i>trkd_port_state</i>         | (Optional) trunk port state        |
| <i>num_ports</i>               | (Optional) number of ports         |
| TABLE_trk_intf                 | (Optional) trunk interfaces        |
| <i>trk_intf</i>                | (Optional) track interface         |
| <i>info_type_num</i>           | (Optional) info type num           |
| <i>info_model_num</i>          | (Optional) info model num          |
| <i>info_manufacturer</i>       | (Optional) info manufacturer       |
| <i>info_port_id</i>            | (Optional) info port id            |
| <i>active_vsan</i>             | (Optional) allowed and active vsan |
| <i>trunk_vsan_up</i>           | (Optional) trunk vsan up           |
| <i>trunk_vsan_isolated</i>     | (Optional) trunk vsan isolated     |
| <i>trunk_vsan_initializing</i> | (Optional) trunk vsan initializing |
| <i>in_bps</i>                  | (Optional) input bits/sec          |
| <i>in_byyps</i>                | (Optional) input bytes/sec         |
| <i>in_fps</i>                  | (Optional) input frames/sec        |
| <i>out_bps</i>                 | (Optional) output bits/sec         |
| <i>out_byyps</i>               | (Optional) output bytes/sec        |
| <i>out_fps</i>                 | (Optional) output frames/sec       |
| <i>total_in_frames</i>         | (Optional) total in frames         |
| <i>total_in_bytes</i>          | (Optional) total in bytes          |
| <i>total_in_discards</i>       | (Optional) total in discards       |
| <i>total_in_errors</i>         | (Optional) total in errors         |

|                               |  |
|-------------------------------|--|
| <i>invalid_crc</i>            | (Optional) invalid crc                             |
| <i>unknown_class_frames</i>   | (Optional) unknown class frames                    |
| <i>frames_too_long</i>        | (Optional) frames too long                         |
| <i>frames_too_short</i>       | (Optional) frames too short                        |
| <i>total_out_frames</i>       | (Optional) total out frames                        |
| <i>total_out_bytes</i>        | (Optional) total out bytes                         |
| <i>total_out_discards</i>     | (Optional) total out discards                      |
| <i>total_out_errors</i>       | (Optional) total out errors                        |
| <i>in_ols</i>                 | (Optional) input OLS                               |
| <i>in_lrr</i>                 | (Optional) input LRR                               |
| <i>in_nos</i>                 | (Optional) input NOS                               |
| <i>in_loop_inits</i>          | (Optional) input loop inits                        |
| <i>out_ols</i>                | (Optional) output OLS                              |
| <i>out_lrr</i>                | (Optional) output LRR                              |
| <i>out_nos</i>                | (Optional) output NOS                              |
| <i>out_loop_inits</i>         | (Optional) output loop inits                       |
| <i>rx_b2b_perf_buff</i>       | (Optional) rx b2b performance buff                 |
| <i>rx_b2b_credit</i>          | (Optional) rx b2b credit                           |
| <i>tx_b2b_credit</i>          | (Optional) tx b2b credit                           |
| <i>tx_b2b_low_pri_cre</i>     | (Optional) tx b2b low pri credit                   |
| <i>fcoe_in_pkts</i>           | (Optional) fcoe in pkts                            |
| <i>fcoe_in_octets</i>         | (Optional) fcoe in octets                          |
| <i>fcoe_out_pkts</i>          | (Optional) fcoe out pkts                           |
| <i>fcoe_out_octets</i>        | (Optional) fcoe out octets                         |
| TABLE_members                 | (Optional) table for port-channel member interface |
| <i>port_channel_member</i>    | (Optional) port-channel member interface           |
| <i>interface_last_changed</i> | (Optional) interface last changed                  |
| <i>time_last_cleared</i>      | (Optional) counters last cleared                   |
| TABLE_interface_brief_fc      | (Optional) show interface brief table              |

|                              |  |
|------------------------------|--|
| <i>interface_fc</i>          | (Optional) Interface index                 |
| <i>ip_addr</i>               | (Optional) IP address                      |
| <i>vsan_brief</i>            | (Optional) vsan brief                      |
| <i>admin_mode</i>            | (Optional) admin mode                      |
| <i>admin_trunk_mode</i>      | (Optional) admin trunk mode                |
| <i>status</i>                | (Optional) status                          |
| <i>fcot_info</i>             | (Optional) fcot info                       |
| <i>bind_info</i>             | (Optional) bind interface                  |
| <i>bind_type</i>             | (Optional) bind type                       |
| <i>bind_mac</i>              | (Optional) bind mac address                |
| <i>port_rate_mode</i>        | (Optional) rate mode                       |
| <i>oper_speed</i>            | (Optional) speed                           |
| <i>port_channel</i>          | (Optional) port channel number             |
| TABLE_interface_brief_san_pc | (Optional) show interface brief for san-po |
| <i>interface_san</i>         | (Optional) san_po interface                |
| <i>vsan_brief</i>            | (Optional) vsan brief                      |
| <i>admin_trunk_mode</i>      | (Optional) admin trunk mode                |
| <i>status</i>                | (Optional) status                          |
| <i>port_rate_mode</i>        | (Optional) rate mode                       |
| <i>oper_speed</i>            | (Optional) speed                           |
| <i>ip_addr</i>               | (Optional) IP address                      |

### Command Mode

- /exec

## show interface

```

show interface <ifid> [ quick ] [ __readonly__ ] TABLE interface <interface> [ <desc> ] [ [ <svi_if_index> ]
[ <svi_admin_state> ] [ <oper_state> ] [ <svi_rsn_desc> ] [ <svi_line_proto> ] [ <svi_hw> ] [ <svi_mac> ] [
<svi_desc> ] [ <svi_ip_addr> ] [ <svi_ip_mask> ] [ <svi_mtu> ] [ <svi_bw> ] [ <svi_delay> ] [ <vlan_id> ]
[ <type> ] ] [ [ <svi_tx_load> ] [ <svi_rx_load> ] ] [ [ <svi_carrier_delay_sec> ] [ <svi_carrier_delay_msec>
] [ <svi_arp_type> ] [ <svi_arp_timeout> ] ] [ [ <svi_time_last_cleared> ] ] [ { [ TABLE_sec_vlan ] [
<sec_vlan> ] [ <sec_vlan_type> ] } ] [ [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts>
] [ <eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits>
] [ <eth_inrate1_summary_pkts> ] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [
<eth_load_interval2_rx> ] [ <eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [
<eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts>
] [ <eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_pkts> ] [ <eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes>
] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [
<eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [
<eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [ <eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [
<eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [ <eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes>
] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [ <eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [
<eth_l3avg2_inbytes> ] [ <eth_l3avg2_inpkts> ] [ <eth_l3avg2_outbytes> ] [ <eth_l3avg2_outpkts> ] [
<eth_l3avg3_inbytes> ] [ <eth_l3avg3_inpkts> ] [ <eth_l3avg3_outbytes> ] [ <eth_l3avg3_outpkts> ] [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_nobuf> ] [ <eth_inbcast> ] [ <eth_inmcast> ] [ <eth_inucast> ] [
<eth_ingiants> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [ <eth_insw_switched> ] [ <eth_runts> ] [
<eth_storm_supp> ] [ <eth_throtles> ] [ <eth_inerr> ] [ <eth_crc> ] [ <eth_ecc> ] [ <eth_frame> ] [
<eth_outrun> ] [ <eth_ignored> ] [ <eth_watchdog> ] [ <eth_outbcast> ] [ <eth_outmcast> ] [ <eth_outucast>
] [ <eth_outgiants> ] [ <eth_inpause> ] [ <eth_dribble> ] [ <eth_in_ifdown_drops> ] [ <eth_bad_eth> ] [
<eth_bad_proto> ] [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_underrun> ] [ <eth_outhw_switched> ] [
<eth_outsw_switched> ] [ <eth_outerr> ] [ <eth_coll> ] [ <eth_resets> ] [ <eth_babbles> ] [ <eth_latecoll> ]
[ <eth_deferred> ] [ <eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_outpause> ] [ <eth_buffail> ] [
<eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] [ <eth_single_coll> ] [ <eth_multi_coll>
] [ <eth_excess_coll> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [
<eth_outcrc> ] [ <eth_symbol> ] [ <eth_out_drops> ] [ <eth_sqetest> ] [ <eth_inb64> ] [ <eth_inb65_127>
] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [ <eth_inb1024_1518> ] [
<eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outb64> ] [ <eth_outb65_127> ] [ <eth_outb128_255> ] [
<eth_outb256_511> ] [ <eth_outb512_1023> ] [ <eth_outb1024_1518> ] [ <eth_outb1519_1548> ] [
<eth_outtrunk> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [ <eth_cos2_outlost>
] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost> ] [
<eth_cos7_outlost> ] [ <eth_fcoe_in_pkts> ] [ <eth_fcoe_in_octets> ] [ <eth_fcoe_out_pkts> ] [
<eth_fcoe_out_octets> ] [ <eth_nfcoe_in_pkts> ] [ <eth_nfcoe_in_octets> ] [ <eth_nfcoe_out_pkts> ] [
<eth_nfcoe_out_octets> ] [ <eth_eee_atx_lpi_msec> ] [ <eth_eee_arcv_lpi_msec> ] [
<eth_eee_atx_lpi_transitions> ] [ <eth_eee_arcv_lpi_transitions> ] [ <eth_phy_ber_count> ] [
<eth_phy_errblks_count> ] ] [ [ <svi_routed_pkts_in> ] [ <svi_routed_bytes_in> ] [ <svi_routed_pkts_out>
] [ <svi_routed_bytes_out> ] [ <svi_ucast_pkts_in> ] [ <svi_ucast_bytes_in> ] [ <svi_mcast_pkts_in> ] [
<svi_mcast_bytes_in> ] [ <svi_ucast_pkts_out> ] [ <svi_ucast_bytes_out> ] [ <svi_mcast_pkts_out> ] [
<svi_mcast_bytes_out> ] [ <svi_ipv4_ucast_pkts_in> ] [ <svi_ipv4_ucast_bytes_in> ] [
<svi_ipv4_ucast_pkts_out> ] [ <svi_ipv4_ucast_bytes_out> ] [ <svi_ipv4_mcast_pkts_in> ] [
<svi_ipv4_mcast_bytes_in> ] [ <svi_ipv4_mcast_pkts_out> ] [ <svi_ipv4_mcast_bytes_out> ] ] ]

```

```
<svi_ipv6_ucast_pkts_in> ][ <svi_ipv6_ucast_bytes_in> ][ <svi_ipv6_ucast_pkts_out> ][
<svi_ipv6_ucast_bytes_out> ][ <svi_ipv6_mcast_pkts_in> ][ <svi_ipv6_mcast_bytes_in> ][
<svi_ipv6_mcast_pkts_out> ][ <svi_ipv6_mcast_bytes_out> ][ <svi_average_input_bits> ][
<svi_average_input_packets> ][ <svi_average_output_bits> ][ <svi_average_output_packets> ][
<svi_rate_in_mins> ]][ [ <svi_reliability> ] ][ <switchport> ]]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information                       |
| interface              | Show interface status and information                 |
| <i>ifid</i>            | Enter interface type and number in module/slot format |
| quick                  | (Optional) Show info of interface skipping stats      |
| <u>__readonly__</u>    | (Optional) Read Only                                  |
| TABLE_interface        | (Optional) show interface                             |
| <i>interface</i>       | (Optional) Interface index                            |
| <i>desc</i>            | (Optional) Interface description                      |
| <i>svi_if_index</i>    | (Optional) Interface                                  |
| <i>svi_admin_state</i> | (Optional)  |
| <i>oper_state</i>      | (Optional)  |
| <i>svi_rsn_desc</i>    | (Optional) Interface state reason detailed            |
| <i>svi_line_proto</i>  | (Optional)  |
| <i>svi_hw</i>          | (Optional) Hardware                                   |
| <i>svi_mac</i>         | (Optional) Address                                    |
| <i>svi_desc</i>        | (Optional) Interface Description                      |
| <i>svi_ip_addr</i>     | (Optional) IP Address                                 |
| <i>svi_ip_mask</i>     | (Optional) IP address mask                            |
| <i>svi_mtu</i>         | (Optional) MTU size in bytes                          |
| <i>svi_bw</i>          | (Optional) Bandwidth in kilobits                      |
| <i>svi_delay</i>       | (Optional) Throughput delay (tens of microseconds)    |
| <i>vlan_id</i>         | (Optional) Vlan                                       |
| <i>type</i>            | (Optional) type                                       |
| <i>svi_tx_load</i>     | (Optional) Tx Load                                    |
| <i>svi_rx_load</i>     | (Optional) Rx Load                                    |



|                                  |   |
|----------------------------------|---|
| <i>svi_carrier_delay_sec</i>     | (Optional) carrier delay value in seconds       |
| <i>svi_carrier_delay_msec</i>    | (Optional) carrier delay value in milli-seconds |
| <i>svi_arp_type</i>              | (Optional) ARP type                             |
| <i>svi_arp_timeout</i>           | (Optional) ARP timeout value                    |
| <i>svi_time_last_cleared</i>     | (Optional) Time last cleared                    |
| TABLE_sec_vlan                   | (Optional) secondary vlans                      |
| <i>sec_vlan</i>                  | (Optional) vlan id                              |
| <i>sec_vlan_type</i>             | (Optional) secondary vlan type                  |
| <i>eth_load_interval1_rx</i>     | (Optional) interval 1 timer value in sec        |
| <i>eth_inrate1_bits</i>          | (Optional) interval 1 input rate bits/sec       |
| <i>eth_inrate1_pkts</i>          | (Optional) interval 1 input rate pkts/sec       |
| <i>eth_load_interval1_tx</i>     | (Optional) interval 1 timer value in sec        |
| <i>eth_outrate1_bits</i>         | (Optional) interval 1 output rate bits/sec      |
| <i>eth_outrate1_pkts</i>         | (Optional) interval 1 output rate pkts/sec      |
| <i>eth_inrate1_summary_bits</i>  | (Optional) interval 1 input rate bit summary    |
| <i>eth_inrate1_summary_pkts</i>  | (Optional) interval 1 input rate pkt summary    |
| <i>eth_outrate1_summary_bits</i> | (Optional) interval 1 output rate bit summary   |
| <i>eth_outrate1_summary_pkts</i> | (Optional) interval 1 output rate pkt summary   |
| <i>eth_load_interval2_rx</i>     | (Optional) interval 2 timer value in sec        |
| <i>eth_inrate2_bits</i>          | (Optional) interval 2 input rate bits/sec       |
| <i>eth_inrate2_pkts</i>          | (Optional) interval 2 input rate pkts/sec       |
| <i>eth_load_interval2_tx</i>     | (Optional) interval 2 timer value in sec        |
| <i>eth_outrate2_bits</i>         | (Optional) interval 2 output rate bits/sec      |
| <i>eth_outrate2_pkts</i>         | (Optional) interval 2 output rate pkts/sec      |
| <i>eth_inrate2_summary_bits</i>  | (Optional) interval 2 input rate bit summary    |
| <i>eth_inrate2_summary_pkts</i>  | (Optional) interval 2 input rate pkt summary    |
| <i>eth_outrate2_summary_bits</i> | (Optional) interval 2 output rate bit summary   |
| <i>eth_outrate2_summary_pkts</i> | (Optional) interval 2 output rate pkt summary   |
| <i>eth_load_interval3_rx</i>     | (Optional) interval 3 timer value in sec        |

|                                  |   |
|----------------------------------|---|
| <i>eth_inrate3_bits</i>          | (Optional) interval 3 input rate bits/sec     |
| <i>eth_inrate3_pkts</i>          | (Optional) interval 3 input rate pkts/sec     |
| <i>eth_load_interval3_tx</i>     | (Optional) interval 3 timer value in sec      |
| <i>eth_outrate3_bits</i>         | (Optional) interval 3 output rate bits/sec    |
| <i>eth_outrate3_pkts</i>         | (Optional) interval 3 output rate pkts/sec    |
| <i>eth_inrate3_summary_bits</i>  | (Optional) interval 3 input rate bit summary  |
| <i>eth_inrate3_summary_pkts</i>  | (Optional) interval 3 input rate pkt summary  |
| <i>eth_outrate3_summary_bits</i> | (Optional) interval 3 output rate bit summary |
| <i>eth_outrate3_summary_pkts</i> | (Optional) interval 3 output rate pkt summary |
| <i>eth_l2_ucastpkts</i>          | (Optional) L2 switched ucast pkts             |
| <i>eth_l2_ucastbytes</i>         | (Optional) L2 switched ucast bytes            |
| <i>eth_l2_mcastpkts</i>          | (Optional) L2 switched mcast pkts             |
| <i>eth_l2_mcastbytes</i>         | (Optional) L2 switched mcast bytes            |
| <i>eth_l2_bcastpkts</i>          | (Optional) L2 switched bcast pkts             |
| <i>eth_l2_bcastbytes</i>         | (Optional) L2 switched bcast bytes            |
| <i>eth_l3in_ucastpkts</i>        | (Optional) IPv4 L3 in switched ucast pkts     |
| <i>eth_l3in_ucastbytes</i>       | (Optional) IPv4 L3 in switched ucast bytes    |
| <i>eth_l3in_mcastpkts</i>        | (Optional) IPv4 L3 in switched mcast pkts     |
| <i>eth_l3in_mcastbytes</i>       | (Optional) IPv4 L3 in switched mcast bytes    |
| <i>eth_l3in_bcastpkts</i>        | (Optional) L3 in switched bcast pkts          |
| <i>eth_l3in_bcastbytes</i>       | (Optional) L3 in switched bcast bytes         |
| <i>eth_l3out_ucastpkts</i>       | (Optional) IPv4 L3 out switched ucast pkts    |
| <i>eth_l3out_ucastbytes</i>      | (Optional) IPv4 L3 out switched ucast bytes   |
| <i>eth_l3out_mcastpkts</i>       | (Optional) IPv4 L3 out switched mcast pkts    |
| <i>eth_l3out_mcastbytes</i>      | (Optional) IPv4 L3 out switched mcast bytes   |
| <i>eth_l3out_bcastpkts</i>       | (Optional) L3 out switched bcast pkts         |
| <i>eth_l3out_bcastbytes</i>      | (Optional) L3 out switched bcast bytes        |
| <i>eth_l3in_routed_pkts</i>      | (Optional) L3 in routed pkts                  |
| <i>eth_l3in_routed_bytes</i>     | (Optional) L3 in routed bytes                 |

|                               |  |
|-------------------------------|--|
| <i>eth_l3out_routed_pkts</i>  | (Optional) L3 out routed pkts                            |
| <i>eth_l3out_routed_bytes</i> | (Optional) L3 out routed bytes                           |
| <i>eth_l3avg1_inbytes</i>     | (Optional) Load interval 1 L3 average in switched bytes  |
| <i>eth_l3avg1_inpkts</i>      | (Optional) Load interval 1 L3 average in switched pkts   |
| <i>eth_l3avg1_outbytes</i>    | (Optional) Load interval 1 L3 average out switched bytes |
| <i>eth_l3avg1_outpkts</i>     | (Optional) Load interval 1 L3 average out switched pkts  |
| <i>eth_l3avg2_inbytes</i>     | (Optional) Load interval 2 L3 average in switched bytes  |
| <i>eth_l3avg2_inpkts</i>      | (Optional) Load interval 2 L3 average in switched pkts   |
| <i>eth_l3avg2_outbytes</i>    | (Optional) Load interval 2 L3 average out switched bytes |
| <i>eth_l3avg2_outpkts</i>     | (Optional) Load interval 2 L3 average out switched pkts  |
| <i>eth_l3avg3_inbytes</i>     | (Optional) Load interval 3 L3 average in switched bytes  |
| <i>eth_l3avg3_inpkts</i>      | (Optional) Load interval 3 L3 average in switched pkts   |
| <i>eth_l3avg3_outbytes</i>    | (Optional) Load interval 3 L3 average out switched bytes |
| <i>eth_l3avg3_outpkts</i>     | (Optional) Load interval 3 L3 average out switched pkts  |
| <i>eth_inpkts</i>             | (Optional) Packets input                                 |
| <i>eth_inbytes</i>            | (Optional) Bytes input                                   |
| <i>eth_nobuf</i>              | (Optional) No buffer received                            |
| <i>eth_inbcast</i>            | (Optional) Broadcasts                                    |
| <i>eth_inmcast</i>            | (Optional) Multicasts                                    |
| <i>eth_inucast</i>            | (Optional) Unicasts                                      |
| <i>eth_ingiants</i>           | (Optional) giants  |
| <i>eth_ipmcast</i>            | (Optional) IP multicast                                  |
| <i>eth_inhw_switched</i>      | (Optional) Input H/W Switched                            |
| <i>eth_insw_switched</i>      | (Optional) Input S/W Switched                            |
| <i>eth_runts</i>              | (Optional) runts   |
| <i>eth_storm_supp</i>         | (Optional) storm suppression                             |
| <i>eth_throtles</i>           | (Optional) throttles                                     |
| <i>eth_inerr</i>              | (Optional) input errors                                  |
| <i>eth_crc</i>                | (Optional) CRC   |

|                            |   |
|----------------------------|---|
| <i>eth_ecc</i>             | (Optional) ECC                                  |
| <i>eth_frame</i>           | (Optional) frame                                |
| <i>eth_overrun</i>         | (Optional) overrun                              |
| <i>eth_ignored</i>         | (Optional) ignored                              |
| <i>eth_watchdog</i>        | (Optional) watchdog                             |
| <i>eth_outbcast</i>        | (Optional) Broadcasts                           |
| <i>eth_outmcast</i>        | (Optional) Multicasts                           |
| <i>eth_outucast</i>        | (Optional) Unicasts                             |
| <i>eth_outgiants</i>       | (Optional) giants                               |
| <i>eth_inpause</i>         | (Optional) pause input                          |
| <i>eth_dribble</i>         | (Optional) input packets with dribble condition |
| <i>eth_in_ifdown_drops</i> | (Optional) Input if-down drops                  |
| <i>eth_bad_eth</i>         | (Optional) bad ether type drop                  |
| <i>eth_bad_proto</i>       | (Optional) bad protocol drops                   |
| <i>eth_outpkts</i>         | (Optional) packets output                       |
| <i>eth_outbytes</i>        | (Optional) bytes output                         |
| <i>eth_underrun</i>        | (Optional) underruns                            |
| <i>eth_outhw_switched</i>  | (Optional) Out H/W Switched                     |
| <i>eth_outsw_switched</i>  | (Optional) Out S/W Switched                     |
| <i>eth_outerr</i>          | (Optional) output errors                        |
| <i>eth_coll</i>            | (Optional) collisions                           |
| <i>eth_resets</i>          | (Optional) interface resets                     |
| <i>eth_babbles</i>         | (Optional) babbles                              |
| <i>eth_latecoll</i>        | (Optional) late collision                       |
| <i>eth_deferred</i>        | (Optional) deferred                             |
| <i>eth_lostcarrier</i>     | (Optional) lost carrier                         |
| <i>eth_nocarrier</i>       | (Optional) no carrier                           |
| <i>eth_outpause</i>        | (Optional) PAUSE output                         |
| <i>eth_buffail</i>         | (Optional) output buffer failures               |

|                             |  |
|-----------------------------|--|
| <i>eth_bufswapped</i>       | (Optional) output buffers swapped out              |
| <i>eth_arpdrops</i>         | (Optional) arp drops                               |
| <i>eth_out_ifdown_drops</i> | (Optional) Output if-down drops                    |
| <i>eth_single_coll</i>      | (Optional) single collisions                       |
| <i>eth_multi_coll</i>       | (Optional) multi collisions                        |
| <i>eth_excess_coll</i>      | (Optional) excessive collisions                    |
| <i>eth_jabbers</i>          | (Optional) jabbers                                 |
| <i>eth_shortframe</i>       | (Optional) short frames                            |
| <i>eth_indiscard</i>        | (Optional) discards                                |
| <i>eth_bad_encap</i>        | (Optional) bad encapsulation                       |
| <i>eth_outcrc</i>           | (Optional) Output CRC                              |
| <i>eth_symbol</i>           | (Optional) symbol errors                           |
| <i>eth_out_drops</i>        | (Optional) output drops                            |
| <i>eth_sqetest</i>          | (Optional) SQE test                                |
| <i>eth_inb64</i>            | (Optional) input pkts between 0 and 64 bytes       |
| <i>eth_inb65_127</i>        | (Optional) input pkts between 65 and 127 bytes     |
| <i>eth_inb128_255</i>       | (Optional) input pkts between 128 and 255 bytes    |
| <i>eth_inb256_511</i>       | (Optional) input pkts between 256 and 511 bytes    |
| <i>eth_inb512_1023</i>      | (Optional) input pkts between 512 and 1023 bytes   |
| <i>eth_inb1024_1518</i>     | (Optional) input pkts between 1024 and 1518 bytes  |
| <i>eth_inb1519_1548</i>     | (Optional) input pkts between 1519 and 1548 bytes  |
| <i>eth_intrunk</i>          | (Optional) input trunk pkts                        |
| <i>eth_outb64</i>           | (Optional) output pkts between 0 and 64 bytes      |
| <i>eth_outb65_127</i>       | (Optional) output pkts between 65 and 127 bytes    |
| <i>eth_outb128_255</i>      | (Optional) output pkts between 128 and 255 bytes   |
| <i>eth_outb256_511</i>      | (Optional) output pkts between 256 and 511 bytes   |
| <i>eth_outb512_1023</i>     | (Optional) output pkts between 512 and 1023 bytes  |
| <i>eth_outb1024_1518</i>    | (Optional) output pkts between 1024 and 1518 bytes |
| <i>eth_outb1519_1548</i>    | (Optional) output pkts between 1519 and 1548 bytes |

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| <i>eth_outtrunk</i>                 | (Optional) output trunk pkts      |
| <i>eth_bpdu_outlost</i>             | (Optional) BPDU output lost       |
| <i>eth_cos0_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos1_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos2_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos3_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos4_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos5_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos6_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos7_outlost</i>             | (Optional) output pkts            |
| <i>eth_fcoe_in_pkts</i>             | (Optional) fcoe in pkts           |
| <i>eth_fcoe_in_octets</i>           | (Optional) fcoe in octets         |
| <i>eth_fcoe_out_pkts</i>            | (Optional) fcoe out pkts          |
| <i>eth_fcoe_out_octets</i>          | (Optional) fcoe out octets        |
| <i>eth_nfcoe_in_pkts</i>            | (Optional) nfcoe in pkts          |
| <i>eth_nfcoe_in_octets</i>          | (Optional) nfcoe in octets        |
| <i>eth_nfcoe_out_pkts</i>           | (Optional) nfcoe out pkts         |
| <i>eth_nfcoe_out_octets</i>         | (Optional) nfcoe out octets       |
| <i>eth_eee_atx_lpi_msec</i>         | (Optional) Tx Lpi usec            |
| <i>eth_eee_arcv_lpi_msec</i>        | (Optional) Rx Lpi usec            |
| <i>eth_eee_atx_lpi_transitions</i>  | (Optional) Tx Lpi requests        |
| <i>eth_eee_arcv_lpi_transitions</i> | (Optional) Rx Lpi indications     |
| <i>eth_phy_ber_count</i>            | (Optional) Bit error rate counter |
| <i>eth_phy_errblks_count</i>        | (Optional) Errored blocks counter |
| <i>svi_reliability</i>              | (Optional) Reliability            |
| <i>switchport</i>                   | (Optional) Switchport enabled     |

### Command Mode

- /exec

## show interface

```
show interface <ifmgmt> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ] [
<state_rsn> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <admin_state> ] [ <share_state> ] [ <eth_bundle> ] [
<eth_dce_mode> ] [ <vpc_status> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [
<eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix> ] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_encap_vlan> ] [
<eth_dly> ] [ <eth_reliability> ] [ <eth_txload> ] [ <eth_rxload> ] [ <encapsulation> ] [ <medium> ] [
<eth_loopback> ] [ <eth_keepalive> ] [ <eth_duplex> ] [ <eth_speed> ] [ <eth_mode> ] [ <eth_ratemode> ] [
<eth_autoneg> ] [ <eth_beacon> ] [ <eth_media> ] [ <eth_in_flowctrl> ] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [
<eth_swt_monitor> ] [ <eth_ethertype> ] [ <eth_members> ] [ <eth_clk_mode> ] [ <eth_arp_type> ] [
<eth_arp_timeout> ] [ <eth_last_in> ] [ <eth_last_out> ] [ <eth_out_hang> ] [ <eth_clear_counters> ] [
<eth_link_flapped> ] [ <eth_inq_size> ] [ <eth_inq_max> ] [ <eth_inq_drops> ] [ <eth_inq_flush> ] [
<eth_out_drop> ] [ <eth_q_strategy> ] [ <eth_outq_size> ] [ <eth_outq_max> ] [ <eth_reset_cntr> ] [
<mgmt_hw_desc> ] [ <mgmt_hw_addr> ] [ <mgmt_ip_addr> ] [ <mgmt_ip_mask> ] [ <mgmt_mtu> ] [
<mgmt_speed> ] [ <mgmt_duplex> ] [ <vdc_lvl_in_avg_bits> ] [ <vdc_lvl_in_avg_pkts> ] [
<vdc_lvl_out_avg_bits> ] [ <vdc_lvl_out_avg_pkts> ] [ <vdc_lvl_in_pkts> ] [ <vdc_lvl_in_ucast> ] [
<vdc_lvl_in_mcast> ] [ <vdc_lvl_in_bcast> ] [ <vdc_lvl_in_bytes> ] [ <vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [
<vdc_lvl_out_pkts> ] [ <vdc_lvl_out_ucast> ] [ <vdc_lvl_out_mcast> ] [ <vdc_lvl_out_bcast> ] [
<vdc_lvl_out_bytes> ] [ <vdc_lvl_out_bps> ] [ <vdc_lvl_out_pps> ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                       |
| interface             | Show interface status and information                 |
| <i>ifmgmt</i>         | Enter interface type and number in module/slot format |
| <u>__readonly__</u>   | (Optional) Read Only                                  |
| TABLE_interface       | (Optional) show interface                             |
| <i>interface</i>      | (Optional) Interface index                            |
| <i>state</i>          | (Optional) Interface state                            |
| <i>state_rsn_desc</i> | (Optional) Interface state reason detailed            |
| <i>state_rsn</i>      | (Optional) Interface state reason                     |
| <i>eth_rsn_fac</i>    | (Optional) State reason facility                      |
| <i>eth_rsn_code</i>   | (Optional) State reason code                          |
| <i>admin_state</i>    | (Optional) Interface admin state                      |
| <i>share_state</i>    | (Optional) Interface ownership                        |
| <i>eth_bundle</i>     | (Optional) Belongs to bundle                          |
| <i>eth_dce_mode</i>   | (Optional) DCE mode description                       |
| <i>vpc_status</i>     | (Optional) VPC status                                 |

|                         |                                  |
|-------------------------|----------------------------------|
| <i>eth_hw_desc</i>      | (Optional) HW description        |
| <i>eth_hw_addr</i>      | (Optional) HW address            |
| <i>eth_bia_addr</i>     | (Optional) bia address           |
| <i>desc</i>             | (Optional) Interface description |
| <i>eth_ip_addr</i>      | (Optional) IP Address            |
| <i>eth_ip_mask</i>      | (Optional) IP address mask       |
| <i>eth_ip_prefix</i>    | (Optional) IP address prefix     |
| <i>eth_mtu</i>          | (Optional) MTU                   |
| <i>eth_bw</i>           | (Optional) Bandwidth             |
| <i>eth_encap_vlan</i>   | (Optional) Encapsulation Vlan    |
| <i>eth_dly</i>          | (Optional) Delay                 |
| <i>eth_reliability</i>  | (Optional) Reliability           |
| <i>eth_txload</i>       | (Optional) Tx load               |
| <i>eth_rxload</i>       | (Optional) Rx load               |
| <i>encapsulation</i>    | (Optional) Encapsulation         |
| <i>medium</i>           | (Optional) medium type           |
| <i>eth_loopback</i>     | (Optional) Loopback              |
| <i>eth_keepalive</i>    | (Optional) Keepalive             |
| <i>eth_duplex</i>       | (Optional) Duplex                |
| <i>eth_speed</i>        | (Optional) Speed                 |
| <i>eth_mode</i>         | (Optional) Port mode             |
| <i>eth_ratemode</i>     | (Optional) Rate mode             |
| <i>eth_autoneg</i>      | (Optional) Autonegotiation       |
| <i>eth_beacon</i>       | (Optional) Beacon                |
| <i>eth_media</i>        | (Optional) Media type            |
| <i>eth_in_flowctrl</i>  | (Optional) Input flowcontrol     |
| <i>eth_out_flowctrl</i> | (Optional) Output flowcontrol    |
| <i>eth_mdix</i>         | (Optional) Mdx                   |
| <i>eth_swt_monitor</i>  | (Optional) Switchport Monitor    |



|                             |   |
|-----------------------------|---|
| <i>eth_ether</i>            | (Optional) EtherType                                |
| <i>eth_members</i>          | (Optional) Members in this channel                  |
| <i>eth_clk_mode</i>         | (Optional) Clock mode                               |
| <i>eth_arp_type</i>         | (Optional) ARP type                                 |
| <i>eth_arp_timeout</i>      | (Optional) ARP timeout                              |
| <i>eth_last_in</i>          | (Optional) Last input                               |
| <i>eth_last_out</i>         | (Optional) Last output                              |
| <i>eth_out_hang</i>         | (Optional) Last output hang                         |
| <i>eth_clear_counters</i>   | (Optional) Last clearing of show interface counters |
| <i>eth_link_flapped</i>     | (Optional) Last link flapped                        |
| <i>eth_inq_size</i>         | (Optional) Input queue size                         |
| <i>eth_inq_max</i>          | (Optional) Input queue max                          |
| <i>eth_inq_drops</i>        | (Optional) Input queue drops                        |
| <i>eth_inq_flush</i>        | (Optional) Input queue flushes                      |
| <i>eth_out_drop</i>         | (Optional) Output drops                             |
| <i>eth_q_strategy</i>       | (Optional) Queuing strategy                         |
| <i>eth_outq_size</i>        | (Optional) Output queue size                        |
| <i>eth_outq_max</i>         | (Optional) Output queue max                         |
| <i>eth_reset_cntr</i>       | (Optional) Interface resets                         |
| <i>mgmt_hw_desc</i>         | (Optional) HW description                           |
| <i>mgmt_hw_addr</i>         | (Optional) HW address                               |
| <i>mgmt_ip_addr</i>         | (Optional) IP address                               |
| <i>mgmt_ip_mask</i>         | (Optional) IP address mask                          |
| <i>mgmt_mtu</i>             | (Optional) MTU                                      |
| <i>mgmt_speed</i>           | (Optional) Speed                                    |
| <i>mgmt_duplex</i>          | (Optional) Duplex                                   |
| <i>vdc_lvl_in_avg_bits</i>  | (Optional) VDC level average input bits             |
| <i>vdc_lvl_in_avg_pkts</i>  | (Optional) VDC level average input packets          |
| <i>vdc_lvl_out_avg_bits</i> | (Optional) VDC level average output bits            |

|                             |  |
|-----------------------------|--|
| <i>vdc_lvl_out_avg_pkts</i> | (Optional) VDC level average output packets    |
| <i>vdc_lvl_in_pkts</i>      | (Optional) VDC level input packets             |
| <i>vdc_lvl_in_ucast</i>     | (Optional) VDC level input unicast packets     |
| <i>vdc_lvl_in_mcast</i>     | (Optional) VDC level input multicast packets   |
| <i>vdc_lvl_in_bcast</i>     | (Optional) VDC level input broadcast packets   |
| <i>vdc_lvl_in_bytes</i>     | (Optional) VDC level input bytes               |
| <i>vdc_lvl_in_bps</i>       | (Optional) VDC level input bytes per second    |
| <i>vdc_lvl_in_pps</i>       | (Optional) VDC level input packets per second  |
| <i>vdc_lvl_out_pkts</i>     | (Optional) VDC level output packets            |
| <i>vdc_lvl_out_ucast</i>    | (Optional) VDC level output unicast packets    |
| <i>vdc_lvl_out_mcast</i>    | (Optional) VDC level output multicast packets  |
| <i>vdc_lvl_out_bcast</i>    | (Optional) VDC level output broadcast packets  |
| <i>vdc_lvl_out_bytes</i>    | (Optional) VDC level output bytes              |
| <i>vdc_lvl_out_bps</i>      | (Optional) VDC level output bytes per second   |
| <i>vdc_lvl_out_pps</i>      | (Optional) VDC level output packets per second |

**Command Mode**

- /exec

## show interface

```

show interface [ controller | quick ] [ __readonly__ TABLE_interface <interface> [ <state> ] [ <state_rsn_desc>
] [ <state_rsn> ] [ <vsan_brief> ] [ <oper_port_state> ] [ <port_state> ] [ <bound_interface> ] [ <port_desc>
] [ <port_des> ] [ <mgmt_hw_desc1> ] [ <mgmt_hw_addr1> ] [ <port_name> ] [ <hardware> ] [ <sfp> ] [
<port_wwn> ] [ <peer_port_wwn> ] [ <admin_mode> ] [ <admin_trunk_mode> ] [ <snmp_trap> ] [ <status>
] [ <state_rsn1> ] [ <fcot_info> ] [ <bind_info> ] [ <bind_mac> ] [ <bind_type> ] [ <port_mode> ] [ <fcid>
] [ <cfg_port_vsan> ] [ <vsan> ] [ <port_rate_mode> ] [ <oper_speed> ] [ <admin_speed> ] [ <port_channel>
] [ <ip_addr1> ] [ <oper_txbbcredit> ] [ <oper_rxbbcredit> ] [ <port_bb_scn> ] [ <admin_rxbufsize> ] [
<admin_port_encap> ] [ <admin_beacon_mode> ] [ <admin_fec_state> ] [ <oper_fec_state> ] [
<bundle_if_index> ] [ <trkd_if_index> ] [ <trk_cfg_vsans> ] [ <trkd_port_state> ] [ <num_ports> ] [
TABLE_trk_intf [ <trk_intf> ] ] [ <info_type_num> ] [ <info_model_num> ] [ <info_manufacturer> ] [
<info_port_id> ] [ <active_vsan> ] [ <trunk_vsan_up> ] [ <trunk_vsan_isolated> ] [ <trunk_vsan_initializing>
] [ <in_bps> ] [ <in_byps> ] [ <in_fps> ] [ <out_bps> ] [ <out_byps> ] [ <out_fps> ] [ <total_in_frames> ] [
<total_in_bytes> ] [ <total_in_discards> ] [ <total_in_errors> ] [ <invalid_crc> ] [ <unknown_class_frames>
] [ <frames_too_long> ] [ <frames_too_short> ] [ <total_out_frames> ] [ <total_out_bytes> ] [
<total_out_discards> ] [ <total_out_errors> ] [ <in_ols> ] [ <in_lrr> ] [ <in_nos> ] [ <in_loop_inits> ] [
<out_ols> ] [ <out_lrr> ] [ <out_nos> ] [ <out_loop_inits> ] [ <rx_b2b_perf_buff> ] [ <rx_b2b_credit> ] [
<tx_b2b_credit> ] [ <tx_b2b_low_pri_cre> ] [ <fcoe_in_pkts> ] [ <fcoe_in_octets> ] [ <fcoe_out_pkts> ] [
<fcoe_out_octets> ] [ TABLE_members [ <port_channel_member> ] ] [ <interface_last_changed> ] [
<time_last_cleared> ] [ <interface_quick> ] [ <vsan_brief_quick> ] [ <oper_port_state_quick> ] [
<port_state_quick> ] [ <bound_interface_quick> ] [ <port_desc_quick> ] [ <port_des_quick> ] [
<mgmt_hw_desc1_quick> ] [ <mgmt_hw_addr1_quick> ] [ <port_name_quick> ] [ <hardware_quick> ] [
<sfp_quick> ] [ <port_wwn_quick> ] [ <peer_port_wwn_quick> ] [ <admin_mode_quick> ] [
<admin_trunk_mode_quick> ] [ <snmp_trap_quick> ] [ <status_quick> ] [ <state_rsn1_quick> ] [
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] [ <fcid_quick> ] [ <cfg_port_vsan_quick> ] [ <vsan_quick> ] [ <port_rate_mode_quick> ] [
<oper_speed_quick> ] [ <admin_speed_quick> ] [ <port_channel_quick> ] [ <ip_addr1_quick> ] [
<oper_txbbcredit_quick> ] [ <oper_rxbbcredit_quick> ] [ <port_bb_scn_quick> ] [ <admin_rxbufsize_quick>
] [ <admin_port_encap_quick> ] [ <admin_beacon_mode_quick> ] [ <admin_fec_state_quick> ] [
<oper_fec_state_quick> ] [ <bundle_if_index_quick> ] [ <trkd_if_index_quick> ] [ <trk_cfg_vsans_quick>
] [ <trkd_port_state_quick> ] [ <num_ports_quick> ] [ TABLE_trk_intf_quick [ <trk_intf_quick> ] ] [
<info_type_num_quick> ] [ <info_model_num_quick> ] [ <info_manufacturer_quick> ] [ <info_port_id_quick>
] [ <active_vsan_quick> ] [ <trunk_vsan_up_quick> ] [ <trunk_vsan_isolated_quick> ] [
<trunk_vsan_initializing_quick> ] [ <in_bps_quick> ] [ <in_byps_quick> ] [ <in_fps_quick> ] [
<out_bps_quick> ] [ <out_byps_quick> ] [ <out_fps_quick> ] [ <total_in_frames_quick> ] [
<total_in_bytes_quick> ] [ <total_in_discards_quick> ] [ <total_in_errors_quick> ] [ <invalid_crc_quick> ] [
<unknown_class_frames_quick> ] [ <frames_too_long_quick> ] [ <frames_too_short_quick> ] [
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<total_out_errors_quick> ] [ <in_ols_quick> ] [ <in_lrr_quick> ] [ <in_nos_quick> ] [ <in_loop_inits_quick>
] [ <out_ols_quick> ] [ <out_lrr_quick> ] [ <out_nos_quick> ] [ <out_loop_inits_quick> ] [
<rx_b2b_perf_buff_quick> ] [ <rx_b2b_credit_quick> ] [ <tx_b2b_credit_quick> ] [
<tx_b2b_low_pri_cre_quick> ] [ <fcoe_in_pkts_quick> ] [ <fcoe_in_octets_quick> ] [ <fcoe_out_pkts_quick>
] [ <fcoe_out_octets_quick> ] [ TABLE_members_quick [ <port_channel_member_quick> ] ] [
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<admin_state> ] [ <share_state> ] [ <parent_interface> ] [ <vpc_status> ] [ <eth_bundle> ] [ <eth_hw_desc>
] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [ <eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix> ]
[ <eth_mtu> ] [ <eth_bw> ] [ <eth_dly> ] [ <eth_reliability> ] [ <eth_txload> ] [ <eth_rxload> ] [
<eth_encap_vlan> ] [ <encapsulation> ] [ <medium> ] [ <eth_mode> ] [ <eth_duplex> ] [ <eth_speed> ] [
<eth_media> ] [ <eth_beacon> ] [ <eth_autoneg> ] [ <eth_in_flowctrl> ] [ <eth_out_flowctrl> ] [ <eth_mdix>

```

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][ <eth_ratemode> ][ <eth_sw_t_monitor> ][ <eth_ethertype> ][ <eth_eee_state> ][ <eth_admin_fec_state>
][ <eth_oper_fec_state> ][ <eth_members> ][ <eth_link_flapped> ][ <eth_clear_counters> ][ <eth_reset_cntr>
][ <eth_load_interval1_rx> ][ <eth_inrate1_bits> ][ <eth_inrate1_pkts> ][ <eth_load_interval1_tx> ][
<eth_outrate1_bits> ][ <eth_outrate1_pkts> ][ <eth_inrate1_summary_bits> ][ <eth_inrate1_summary_pkts>
][ <eth_outrate1_summary_bits> ][ <eth_outrate1_summary_pkts> ][ <eth_load_interval2_rx> ][
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]

```

### Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information                  |
| interface              | Show interface status and information            |
| controller             | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED        |
| quick                  | (Optional) Show info of interface skipping stats |
| __readonly__           | (Optional) Read Only                             |
| <i>interface</i>       | (Optional) Interface index                       |
| TABLE_interface        | (Optional) show interface                        |
| <i>state</i>           | (Optional) Interface state                       |
| <i>state_rsn_desc</i>  | (Optional) Interface state reason detailed       |
| <i>state_rsn</i>       | (Optional) Interface state reason                |
| <i>vsan_brief</i>      | (Optional) vsan for brief                        |
| <i>oper_port_state</i> | (Optional) oper port state                       |
| <i>port_state</i>      | (Optional) port state                            |
| <i>bound_interface</i> | (Optional) bound interface                       |
| <i>port_desc</i>       | (Optional) port description                      |
| <i>port_des</i>        | (Optional) port description                      |
| <i>mgmt_hw_desc1</i>   | (Optional) HW description                        |
| <i>mgmt_hw_addr1</i>   | (Optional) HW address                            |

|                          |                                     |
|--------------------------|-------------------------------------|
| <i>port_name</i>         | (Optional) port description         |
| <i>hardware</i>          | (Optional) Hardware is              |
| <i>sfp</i>               | (Optional) sfp                      |
| <i>port_wwn</i>          | (Optional) port wwn                 |
| <i>peer_port_wwn</i>     | (Optional) peer port wwn            |
| <i>admin_mode</i>        | (Optional) admin mode               |
| <i>admin_trunk_mode</i>  | (Optional) admin trunk mode         |
| <i>snmp_trap</i>         | (Optional) snmp trap                |
| <i>status</i>            | (Optional) Status                   |
| <i>state_rsnl</i>        | (Optional) state reason             |
| <i>fcot_info</i>         | (Optional) fcot info                |
| <i>bind_info</i>         | (Optional) bind interface           |
| <i>bind_mac</i>          | (Optional) bind mac                 |
| <i>bind_type</i>         | (Optional) bind type                |
| <i>port_mode</i>         | (Optional) port mode                |
| <i>fcid</i>              | (Optional) fcid                     |
| <i>cfg_port_vsan</i>     | (Optional) config port vsan         |
| <i>vsan</i>              | (Optional) vsan for brief           |
| <i>port_rate_mode</i>    | (Optional) operation port rate mode |
| <i>oper_speed</i>        | (Optional) speed                    |
| <i>admin_speed</i>       | (Optional) admin speed              |
| <i>port_channel</i>      | (Optional) port channel             |
| <i>ip_addr1</i>          | (Optional) Ip address               |
| <i>oper_txbbcredit</i>   | (Optional) oper tx bbcredit         |
| <i>oper_rxbbcredit</i>   | (Optional) oper rx bbcredit         |
| <i>port_bb_scn</i>       | (Optional) port bb scn              |
| <i>admin_rxbufsize</i>   | (Optional) admin rx bufsize         |
| <i>admin_port_encap</i>  | (Optional) admin port encap         |
| <i>admin_beacon_mode</i> | (Optional) admin beacon mode        |

|                                |                                    |
|--------------------------------|------------------------------------|
| <i>admin_fec_state</i>         | (Optional) admin fec state         |
| <i>oper_fec_state</i>          | (Optional) oper fec state          |
| <i>bundle_if_index</i>         | (Optional) bundle if index         |
| <i>trkd_if_index</i>           | (Optional) Trunk interfaces        |
| <i>trk_cfg_vsans</i>           | (Optional) Trunk vsans             |
| <i>trkd_port_state</i>         | (Optional) trunk port state        |
| <i>num_ports</i>               | (Optional) number of ports         |
| TABLE_trk_intf                 | (Optional) trunk interfaces        |
| <i>trk_intf</i>                | (Optional) track interface         |
| <i>info_type_num</i>           | (Optional) info type num           |
| <i>info_model_num</i>          | (Optional) info model num          |
| <i>info_manufacturer</i>       | (Optional) info manufacturer       |
| <i>info_port_id</i>            | (Optional) info port id            |
| <i>active_vsan</i>             | (Optional) allowed and active vsan |
| <i>trunk_vsan_up</i>           | (Optional) trunk vsan up           |
| <i>trunk_vsan_isolated</i>     | (Optional) trunk vsan isolated     |
| <i>trunk_vsan_initializing</i> | (Optional) trunk vsan initializing |
| <i>in_bps</i>                  | (Optional) input bits/sec          |
| <i>in_byyps</i>                | (Optional) input bytes/sec         |
| <i>in_fps</i>                  | (Optional) input frames/sec        |
| <i>out_bps</i>                 | (Optional) output bits/sec         |
| <i>out_byyps</i>               | (Optional) output bytes/sec        |
| <i>out_fps</i>                 | (Optional) output frames/sec       |
| <i>total_in_frames</i>         | (Optional) total in frames         |
| <i>total_in_bytes</i>          | (Optional) total in bytes          |
| <i>total_in_discards</i>       | (Optional) total in discards       |
| <i>total_in_errors</i>         | (Optional) total in errors         |
| <i>invalid_crc</i>             | (Optional) invalid crc             |
| <i>unknown_class_frames</i>    | (Optional) unknown class frames    |

|                               |  |
|-------------------------------|--|
| <i>frames_too_long</i>        | (Optional) frames too long                         |
| <i>frames_too_short</i>       | (Optional) frames too short                        |
| <i>total_out_frames</i>       | (Optional) total out frames                        |
| <i>total_out_bytes</i>        | (Optional) total out bytes                         |
| <i>total_out_discards</i>     | (Optional) total out discards                      |
| <i>total_out_errors</i>       | (Optional) total out errors                        |
| <i>in_ols</i>                 | (Optional) input OLS                               |
| <i>in_lrr</i>                 | (Optional) input LRR                               |
| <i>in_nos</i>                 | (Optional) input NOS                               |
| <i>in_loop_inits</i>          | (Optional) input loop inits                        |
| <i>out_ols</i>                | (Optional) output OLS                              |
| <i>out_lrr</i>                | (Optional) output LRR                              |
| <i>out_nos</i>                | (Optional) output NOS                              |
| <i>out_loop_inits</i>         | (Optional) output loop inits                       |
| <i>rx_b2b_perf_buff</i>       | (Optional) rx b2b performance buff                 |
| <i>rx_b2b_credit</i>          | (Optional) rx b2b credit                           |
| <i>tx_b2b_credit</i>          | (Optional) tx b2b credit                           |
| <i>tx_b2b_low_pri_cre</i>     | (Optional) tx b2b low pri credit                   |
| <i>fcoe_in_pkts</i>           | (Optional) fcoe in pkts                            |
| <i>fcoe_in_octets</i>         | (Optional) fcoe in octets                          |
| <i>fcoe_out_pkts</i>          | (Optional) fcoe out pkts                           |
| <i>fcoe_out_octets</i>        | (Optional) fcoe out octets                         |
| TABLE_members                 | (Optional) table for port-channel member interface |
| <i>port_channel_member</i>    | (Optional) port-channel member interface           |
| <i>interface_last_changed</i> | (Optional) interface last changed                  |
| <i>time_last_cleared</i>      | (Optional) counters last cleared                   |
| <i>interface_quick</i>        | (Optional) Interface index                         |
| <i>vsan_brief_quick</i>       | (Optional) vsan for brief                          |
| <i>oper_port_state_quick</i>  | (Optional) oper port state                         |



|                               |                                     |
|-------------------------------|-------------------------------------|
| <i>port_state_quick</i>       | (Optional) port state               |
| <i>bound_interface_quick</i>  | (Optional) bound interface          |
| <i>port_desc_quick</i>        | (Optional) port description         |
| <i>port_des_quick</i>         | (Optional) port description         |
| <i>mgmt_hw_desc1_quick</i>    | (Optional) HW description           |
| <i>mgmt_hw_addr1_quick</i>    | (Optional) HW address               |
| <i>port_name_quick</i>        | (Optional) port description         |
| <i>hardware_quick</i>         | (Optional) Hardware is              |
| <i>sfp_quick</i>              | (Optional) sfp                      |
| <i>port_wwn_quick</i>         | (Optional) port wwn                 |
| <i>peer_port_wwn_quick</i>    | (Optional) peer port wwn            |
| <i>admin_mode_quick</i>       | (Optional) admin mode               |
| <i>admin_trunk_mode_quick</i> | (Optional) admin trunk mode         |
| <i>snmp_trap_quick</i>        | (Optional) snmp trap                |
| <i>status_quick</i>           | (Optional) Status                   |
| <i>state_rsn1_quick</i>       | (Optional) state reason             |
| <i>fcot_info_quick</i>        | (Optional) fcot info                |
| <i>bind_info_quick</i>        | (Optional) bind interface           |
| <i>bind_mac_quick</i>         | (Optional) bind mac                 |
| <i>bind_type_quick</i>        | (Optional) bind type                |
| <i>port_mode_quick</i>        | (Optional) port mode                |
| <i>fcid_quick</i>             | (Optional) fcid                     |
| <i>cfg_port_vsan_quick</i>    | (Optional) config port vsan         |
| <i>vsan_quick</i>             | (Optional) vsan for brief           |
| <i>port_rate_mode_quick</i>   | (Optional) operation port rate mode |
| <i>oper_speed_quick</i>       | (Optional) speed                    |
| <i>admin_speed_quick</i>      | (Optional) admin speed              |
| <i>port_channel_quick</i>     | (Optional) port channel             |
| <i>ip_addr1_quick</i>         | (Optional) Ip address               |

|                                      |                                    |
|--------------------------------------|------------------------------------|
| <i>oper_txbbcredit_quick</i>         | (Optional) oper tx bbcredit        |
| <i>oper_rxbbcredit_quick</i>         | (Optional) oper rx bbcredit        |
| <i>port_bb_scn_quick</i>             | (Optional) port bb scn             |
| <i>admin_rxbufsize_quick</i>         | (Optional) admin rx bufsize        |
| <i>admin_port_encap_quick</i>        | (Optional) admin port encap        |
| <i>admin_beacon_mode_quick</i>       | (Optional) admin beacon mode       |
| <i>admin_fec_state_quick</i>         | (Optional) admin fec state         |
| <i>oper_fec_state_quick</i>          | (Optional) oper fec state          |
| <i>bundle_if_index_quick</i>         | (Optional) bundle if index         |
| <i>trkd_if_index_quick</i>           | (Optional) Trunk interfaces        |
| <i>trk_cfg_vsans_quick</i>           | (Optional) Trunk vsans             |
| <i>trkd_port_state_quick</i>         | (Optional) trunk port state        |
| <i>num_ports_quick</i>               | (Optional) number of ports         |
| TABLE_trk_intf_quick                 | (Optional) trunk interfaces        |
| <i>trk_intf_quick</i>                | (Optional) track interface         |
| <i>info_type_num_quick</i>           | (Optional) info type num           |
| <i>info_model_num_quick</i>          | (Optional) info model num          |
| <i>info_manufacturer_quick</i>       | (Optional) info manufacturer       |
| <i>info_port_id_quick</i>            | (Optional) info port id            |
| <i>active_vsan_quick</i>             | (Optional) allowed and active vsan |
| <i>trunk_vsan_up_quick</i>           | (Optional) trunk vsan up           |
| <i>trunk_vsan_isolated_quick</i>     | (Optional) trunk vsan isolated     |
| <i>trunk_vsan_initializing_quick</i> | (Optional) trunk vsan initializing |
| <i>in_bps_quick</i>                  | (Optional) input bits/sec          |
| <i>in_byps_quick</i>                 | (Optional) input bytes/sec         |
| <i>in_fps_quick</i>                  | (Optional) input frames/sec        |
| <i>out_bps_quick</i>                 | (Optional) output bits/sec         |
| <i>out_byps_quick</i>                | (Optional) output bytes/sec        |
| <i>out_fps_quick</i>                 | (Optional) output frames/sec       |

|                                   |  |
|-----------------------------------|--|
| <i>total_in_frames_quick</i>      | (Optional) total in frames                         |
| <i>total_in_bytes_quick</i>       | (Optional) total in bytes                          |
| <i>total_in_discards_quick</i>    | (Optional) total in discards                       |
| <i>total_in_errors_quick</i>      | (Optional) total in errors                         |
| <i>invalid_crc_quick</i>          | (Optional) invalid crc                             |
| <i>unknown_class_frames_quick</i> | (Optional) unknown class frames                    |
| <i>frames_too_long_quick</i>      | (Optional) frames too long                         |
| <i>frames_too_short_quick</i>     | (Optional) frames too short                        |
| <i>total_out_frames_quick</i>     | (Optional) total out frames                        |
| <i>total_out_bytes_quick</i>      | (Optional) total out bytes                         |
| <i>total_out_discards_quick</i>   | (Optional) total out discards                      |
| <i>total_out_errors_quick</i>     | (Optional) total out errors                        |
| <i>in_ols_quick</i>               | (Optional) input OLS                               |
| <i>in_lrr_quick</i>               | (Optional) input LRR                               |
| <i>in_nos_quick</i>               | (Optional) input NOS                               |
| <i>in_loop_inits_quick</i>        | (Optional) input loop inits                        |
| <i>out_ols_quick</i>              | (Optional) output OLS                              |
| <i>out_lrr_quick</i>              | (Optional) ouput LRR                               |
| <i>out_nos_quick</i>              | (Optional) output NOS                              |
| <i>out_loop_inits_quick</i>       | (Optional) output loop inits                       |
| <i>rx_b2b_perf_buff_quick</i>     | (Optional) rx b2b performance buff                 |
| <i>rx_b2b_credit_quick</i>        | (Optional) rx b2b credit                           |
| <i>tx_b2b_credit_quick</i>        | (Optional) tx b2b credit                           |
| <i>tx_b2b_low_pri_cre_quick</i>   | (Optional) tx b2b low pri credit                   |
| <i>fcoe_in_pkts_quick</i>         | (Optional) fcoe in pkts                            |
| <i>fcoe_in_octets_quick</i>       | (Optional) fcoe in octets                          |
| <i>fcoe_out_pkts_quick</i>        | (Optional) fcoe out pkts                           |
| <i>fcoe_out_octets_quick</i>      | (Optional) fcoe out octets                         |
| TABLE_members_quick               | (Optional) table for port-channel member interface |

|                                     |  |
|-------------------------------------|--|
| <i>port_channel_member_quick</i>    | (Optional) port-channel member interface |
| <i>interface_last_changed_quick</i> | (Optional) interface last changed        |
| <i>time_last_cleared_quick</i>      | (Optional) counters last cleared         |
| <i>eth_rsn_fac</i>                  | (Optional) State reason facility         |
| <i>eth_rsn_code</i>                 | (Optional) State reason code             |
| <i>admin_state</i>                  | (Optional) admin state                   |
| <i>share_state</i>                  | (Optional) Interface ownership           |
| <i>parent_interface</i>             | (Optional) parent interface              |
| <i>vpc_status</i>                   | (Optional) VPC status                    |
| <i>eth_bundle</i>                   | (Optional) Belongs to bundle             |
| <i>eth_hw_desc</i>                  | (Optional) HW description                |
| <i>eth_hw_addr</i>                  | (Optional) HW address                    |
| <i>eth_bia_addr</i>                 | (Optional) bia address                   |
| <i>desc</i>                         | (Optional) Interface description         |
| <i>eth_ip_addr</i>                  | (Optional) IP Address                    |
| <i>eth_ip_mask</i>                  | (Optional) IP address mask               |
| <i>eth_ip_prefix</i>                | (Optional) IP address prefix             |
| <i>eth_mtu</i>                      | (Optional) MTU                           |
| <i>eth_bw</i>                       | (Optional) Bandwidth                     |
| <i>eth_dly</i>                      | (Optional) Delay                         |
| <i>eth_reliability</i>              | (Optional) Reliability                   |
| <i>eth_txload</i>                   | (Optional) Tx load                       |
| <i>eth_rxload</i>                   | (Optional) Rx load                       |
| <i>eth_encap_vlan</i>               | (Optional) Encapsulation Vlan            |
| <i>encapsulation</i>                | (Optional) Encapsulation                 |
| <i>medium</i>                       | (Optional) medium type                   |
| <i>eth_mode</i>                     | (Optional) Port mode                     |
| <i>eth_duplex</i>                   | (Optional) Duplex                        |
| <i>eth_speed</i>                    | (Optional) Speed                         |

|                                  |   |
|----------------------------------|---|
| <i>eth_media</i>                 | (Optional) Media type                               |
| <i>eth_beacon</i>                | (Optional) Beacon                                   |
| <i>eth_autoneg</i>               | (Optional) Autonegotiation                          |
| <i>eth_in_flowctrl</i>           | (Optional) Input flowcontrol                        |
| <i>eth_out_flowctrl</i>          | (Optional) Output flowcontrol                       |
| <i>eth_mdix</i>                  | (Optional) Mdx                                      |
| <i>eth_ratemode</i>              | (Optional) Rate mode                                |
| <i>eth_swt_monitor</i>           | (Optional) Switchport Monitor                       |
| <i>eth_ethertype</i>             | (Optional) EtherType                                |
| <i>eth_eee_state</i>             | (Optional) EEE state                                |
| <i>eth_admin_fec_state</i>       | (Optional) Admin FEC state                          |
| <i>eth_oper_fec_state</i>        | (Optional) Oper FEC state                           |
| <i>eth_members</i>               | (Optional) Members in this channel                  |
| <i>eth_link_flapped</i>          | (Optional) Last link flapped                        |
| <i>eth_clear_counters</i>        | (Optional) Last clearing of show interface counters |
| <i>eth_reset_cntr</i>            | (Optional) Interface resets                         |
| <i>eth_load_interval1_rx</i>     | (Optional) interval 1 timer value in sec            |
| <i>eth_inrate1_bits</i>          | (Optional) interval 1 input rate bits/sec           |
| <i>eth_inrate1_pkts</i>          | (Optional) interval 1 input rate pkts/sec           |
| <i>eth_load_interval1_tx</i>     | (Optional) interval 1 timer value in sec            |
| <i>eth_outrate1_bits</i>         | (Optional) interval 1 output rate bits/sec          |
| <i>eth_outrate1_pkts</i>         | (Optional) interval 1 output rate pkts/sec          |
| <i>eth_inrate1_summary_bits</i>  | (Optional) interval 1 input rate bit summary        |
| <i>eth_inrate1_summary_pkts</i>  | (Optional) interval 1 input rate pkt summary        |
| <i>eth_outrate1_summary_bits</i> | (Optional) interval 1 output rate bit summary       |
| <i>eth_outrate1_summary_pkts</i> | (Optional) interval 1 output rate pkt summary       |
| <i>eth_load_interval2_rx</i>     | (Optional) interval 2 timer value in sec            |
| <i>eth_inrate2_bits</i>          | (Optional) interval 2 input rate bits/sec           |
| <i>eth_inrate2_pkts</i>          | (Optional) interval 2 input rate pkts/sec           |

|                                  |   |
|----------------------------------|---|
| <i>eth_load_interval2_tx</i>     | (Optional) interval 2 timer value in sec      |
| <i>eth_outrate2_bits</i>         | (Optional) interval 2 output rate bits/sec    |
| <i>eth_outrate2_pkts</i>         | (Optional) interval 2 output rate pkts/sec    |
| <i>eth_inrate2_summary_bits</i>  | (Optional) interval 2 input rate bit summary  |
| <i>eth_inrate2_summary_pkts</i>  | (Optional) interval 2 input rate pkt summary  |
| <i>eth_outrate2_summary_bits</i> | (Optional) interval 2 output rate bit summary |
| <i>eth_outrate2_summary_pkts</i> | (Optional) interval 2 output rate pkt summary |
| <i>eth_load_interval3_rx</i>     | (Optional) interval 3 timer value in sec      |
| <i>eth_inrate3_bits</i>          | (Optional) interval 3 input rate bits/sec     |
| <i>eth_inrate3_pkts</i>          | (Optional) interval 3 input rate pkts/sec     |
| <i>eth_load_interval3_tx</i>     | (Optional) interval 3 timer value in sec      |
| <i>eth_outrate3_bits</i>         | (Optional) interval 3 output rate bits/sec    |
| <i>eth_outrate3_pkts</i>         | (Optional) interval 3 output rate pkts/sec    |
| <i>eth_inrate3_summary_bits</i>  | (Optional) interval 3 input rate bit summary  |
| <i>eth_inrate3_summary_pkts</i>  | (Optional) interval 3 input rate pkt summary  |
| <i>eth_outrate3_summary_bits</i> | (Optional) interval 3 output rate bit summary |
| <i>eth_outrate3_summary_pkts</i> | (Optional) interval 3 output rate pkt summary |
| <i>eth_l2_ucastpkts</i>          | (Optional) L2 switched ucast pkts             |
| <i>eth_l2_ucastbytes</i>         | (Optional) L2 switched ucast bytes            |
| <i>eth_l2_mcastpkts</i>          | (Optional) L2 switched mcast pkts             |
| <i>eth_l2_mcastbytes</i>         | (Optional) L2 switched mcast bytes            |
| <i>eth_l2_bcastpkts</i>          | (Optional) L2 switched bcast pkts             |
| <i>eth_l2_bcastbytes</i>         | (Optional) L2 switched bcast bytes            |
| <i>eth_l3in_ucastpkts</i>        | (Optional) L3 in switched ucast pkts          |
| <i>eth_l3in_ucastbytes</i>       | (Optional) L3 in switched ucast bytes         |
| <i>eth_l3in_mcastpkts</i>        | (Optional) L3 in switched mcast pkts          |
| <i>eth_l3in_mcastbytes</i>       | (Optional) L3 in switched mcast bytes         |
| <i>eth_l3in_bcastpkts</i>        | (Optional) L3 in switched bcast pkts          |
| <i>eth_l3in_bcastbytes</i>       | (Optional) L3 in switched bcast bytes         |

|                               |  |
|-------------------------------|--|
| <i>eth_l3out_ucastpkts</i>    | (Optional) L3 out switched ucast pkts                    |
| <i>eth_l3out_ucastbytes</i>   | (Optional) L3 out switched ucast bytes                   |
| <i>eth_l3out_mcastpkts</i>    | (Optional) L3 out switched mcast pkts                    |
| <i>eth_l3out_mcastbytes</i>   | (Optional) L3 out switched mcast bytes                   |
| <i>eth_l3out_bcastpkts</i>    | (Optional) L3 out switched bcast pkts                    |
| <i>eth_l3out_bcastbytes</i>   | (Optional) L3 out switched bcast bytes                   |
| <i>eth_l3in_routed_pkts</i>   | (Optional) L3 in routed pkts                             |
| <i>eth_l3in_routed_bytes</i>  | (Optional) L3 in routed bytes                            |
| <i>eth_l3out_routed_pkts</i>  | (Optional) L3 out routed pkts                            |
| <i>eth_l3out_routed_bytes</i> | (Optional) L3 out routed bytes                           |
| <i>eth_l3avg1_inbytes</i>     | (Optional) Load interval 1 L3 average in switched bytes  |
| <i>eth_l3avg1_inpkts</i>      | (Optional) Load interval 1 L3 average in switched pkts   |
| <i>eth_l3avg1_outbytes</i>    | (Optional) Load interval 1 L3 average out switched bytes |
| <i>eth_l3avg1_outpkts</i>     | (Optional) Load interval 1 L3 average out switched pkts  |
| <i>eth_inucast</i>            | (Optional) Unicasts                                      |
| <i>eth_inmcast</i>            | (Optional) Multicasts                                    |
| <i>eth_inbcast</i>            | (Optional) Broadcasts                                    |
| <i>eth_inpkts</i>             | (Optional) Packets input                                 |
| <i>eth_inbytes</i>            | (Optional) Bytes input                                   |
| <i>eth_jumbo_inpkts</i>       | (Optional) Incoming jumbo pkts                           |
| <i>eth_storm_supp</i>         | (Optional) storm suppression                             |
| <i>eth_runts</i>              | (Optional) runts   |
| <i>eth_giants</i>             | (Optional) giants  |
| <i>eth_crc</i>                | (Optional) CRC   |
| <i>eth_nobuf</i>              | (Optional) No buffer received                            |
| <i>eth_inerr</i>              | (Optional) input errors                                  |
| <i>eth_frame</i>              | (Optional) frame   |
| <i>eth_overrun</i>            | (Optional) overrun                                       |
| <i>eth_underrun</i>           | (Optional) underruns                                     |

|                            |   |
|----------------------------|---|
| <i>eth_ignored</i>         | (Optional) ignored                              |
| <i>eth_watchdog</i>        | (Optional) watchdog                             |
| <i>eth_bad_eth</i>         | (Optional) bad ether type drop                  |
| <i>eth_bad_proto</i>       | (Optional) bad protocol drops                   |
| <i>eth_in_ifdown_drops</i> | (Optional) Input if-down drops                  |
| <i>eth_dribble</i>         | (Optional) input packets with dribble condition |
| <i>eth_indiscard</i>       | (Optional) discards                             |
| <i>eth_inpause</i>         | (Optional) pause input                          |
| <i>eth_outucast</i>        | (Optional) Unicasts                             |
| <i>eth_outmcast</i>        | (Optional) Multicasts                           |
| <i>eth_outbcast</i>        | (Optional) Broadcasts                           |
| <i>eth_outpkts</i>         | (Optional) packets output                       |
| <i>eth_outbytes</i>        | (Optional) bytes output                         |
| <i>eth_jumbo_outpkts</i>   | (Optional) Outgoing jumbo pkts                  |
| <i>eth_outerr</i>          | (Optional) output errors                        |
| <i>eth_coll</i>            | (Optional) collisions                           |
| <i>eth_deferred</i>        | (Optional) deferred                             |
| <i>eth_latecoll</i>        | (Optional) late collision                       |
| <i>eth_lostcarrier</i>     | (Optional) lost carrier                         |
| <i>eth_nocarrier</i>       | (Optional) no carrier                           |
| <i>eth_babbles</i>         | (Optional) babbles                              |
| <i>eth_outdiscard</i>      | (Optional) output discard                       |
| <i>eth_outpause</i>        | (Optional) PAUSE output                         |
| <i>mgmt_hw_desc</i>        | (Optional) HW description                       |
| <i>mgmt_hw_addr</i>        | (Optional) HW address                           |
| <i>mgmt_ip_addr</i>        | (Optional) IP address                           |
| <i>mgmt_ip_mask</i>        | (Optional) IP address mask                      |
| <i>mgmt_mtu</i>            | (Optional) MTU                                  |
| <i>mgmt_speed</i>          | (Optional) Speed                                |



|                             |  |
|-----------------------------|--|
| <i>mgmt_duplex</i>          | (Optional) Duplex                              |
| <i>vdc_lvl_in_avg_bits</i>  | (Optional) VDC level average input bits        |
| <i>vdc_lvl_in_avg_pkts</i>  | (Optional) VDC level average input packets     |
| <i>vdc_lvl_out_avg_bits</i> | (Optional) VDC level average output bits       |
| <i>vdc_lvl_out_avg_pkts</i> | (Optional) VDC level average output packets    |
| <i>vdc_lvl_in_pkts</i>      | (Optional) VDC level input packets             |
| <i>vdc_lvl_in_ucast</i>     | (Optional) VDC level input unicast packets     |
| <i>vdc_lvl_in_mcast</i>     | (Optional) VDC level input multicast packets   |
| <i>vdc_lvl_in_bcast</i>     | (Optional) VDC level input broadcast packets   |
| <i>vdc_lvl_in_bytes</i>     | (Optional) VDC level input bytes               |
| <i>vdc_lvl_in_bps</i>       | (Optional) VDC level input bytes per second    |
| <i>vdc_lvl_in_pps</i>       | (Optional) VDC level input packets per second  |
| <i>vdc_lvl_out_pkts</i>     | (Optional) VDC level output packets            |
| <i>vdc_lvl_out_ucast</i>    | (Optional) VDC level output unicast packets    |
| <i>vdc_lvl_out_mcast</i>    | (Optional) VDC level output multicast packets  |
| <i>vdc_lvl_out_bcast</i>    | (Optional) VDC level output broadcast packets  |
| <i>vdc_lvl_out_bytes</i>    | (Optional) VDC level output bytes              |
| <i>vdc_lvl_out_bps</i>      | (Optional) VDC level output bytes per second   |
| <i>vdc_lvl_out_pps</i>      | (Optional) VDC level output packets per second |
| <i>mgmt_in_pkts</i>         | (Optional) Input packets                       |
| <i>mgmt_in_bytes</i>        | (Optional) Input bytes                         |
| <i>mgmt_in_mcast</i>        | (Optional) Input multicast frames              |
| <i>mgmt_in_compressed</i>   | (Optional) Input compressed                    |
| <i>mgmt_in_errors</i>       | (Optional) Input errors                        |
| <i>mgmt_in_frame</i>        | (Optional) Input frame errors                  |
| <i>mgmt_in_overrun</i>      | (Optional) Input overrun                       |
| <i>mgmt_in_fifo</i>         | (Optional) Input fifo                          |
| <i>mgmt_out_pkts</i>        | (Optional) Output packets                      |
| <i>mgmt_out_bytes</i>       | (Optional) Output bytes                        |

|                            |                                  |
|----------------------------|----------------------------------|
| <i>mgmt_out_underruns</i>  | (Optional) Output overruns       |
| <i>mgmt_out_errors</i>     | (Optional) Output errors         |
| <i>mgmt_out_collisions</i> | (Optional) Output collisions     |
| <i>mgmt_out_fifo</i>       | (Optional) Output fifo           |
| <i>mgmt_out_carrier</i>    | (Optional) Output carrier errors |
| <i>mgmt_align_err</i>      | (Optional) Align error           |
| <i>mgmt_fcs_err</i>        | (Optional) FCS error             |
| <i>mgmt_xmit_err</i>       | (Optional) Transmit error        |
| <i>mgmt_rcv_err</i>        | (Optional) Receive error         |
| <i>mgmt_undersize</i>      | (Optional) Undersize             |
| <i>mgmt_outdisc</i>        | (Optional) Out discard           |
| <i>mgmt_single_col</i>     | (Optional) Single collision      |
| <i>mgmt_multi_col</i>      | (Optional) Multiple collision    |
| <i>mgmt_late_col</i>       | (Optional) Late collision        |
| <i>mgmt_excess_col</i>     | (Optional) Excess collision      |
| <i>mgmt_carri_sen</i>      | (Optional) Carrier sense         |
| <i>mgmt_runts</i>          | (Optional) Runts                 |
| <i>mgmt_giants</i>         | (Optional) Giants                |
| <i>mgmt_sqetest_err</i>    | (Optional) SQETest error         |
| <i>mgmt_deferred_tx</i>    | (Optional) Deferred tx           |
| <i>mgmt_inmactx_err</i>    | (Optional) In MAC tx             |
| <i>mgmt_inmacrx_err</i>    | (Optional) In MAC rx             |
| <i>mgmt_symbol_err</i>     | (Optional) Symbol error          |
| <i>loop_in_pkts</i>        | (Optional) Input packets         |
| <i>loop_in_bytes</i>       | (Optional) Input bytes           |
| <i>loop_in_mcast</i>       | (Optional) Input multicast       |
| <i>loop_in_compressed</i>  | (Optional) Input compressed      |
| <i>loop_in_errors</i>      | (Optional) Input errors          |
| <i>loop_in_frame</i>       | (Optional) Input frame errors    |

|                              |  |
|------------------------------|--|
| <i>loop_in_overrun</i>       | (Optional) Input overrun                       |
| <i>loop_in_fifo</i>          | (Optional) Input fifo                          |
| <i>loop_out_pkts</i>         | (Optional) Output packets                      |
| <i>loop_out_bytes</i>        | (Optional) Output bytes                        |
| <i>loop_out_underruns</i>    | (Optional) Output underruns                    |
| <i>loop_out_errors</i>       | (Optional) Output errors                       |
| <i>loop_out_collisions</i>   | (Optional) Output collisions                   |
| <i>loop_out_fifo</i>         | (Optional) Output fifo                         |
| <i>loop_out_carriers</i>     | (Optional) Output carrier errors               |
| <i>admin-state</i>           | (Optional)                                     |
| <i>tunnel-ipv4</i>           | (Optional) interface IPv4 address              |
| <i>mtu</i>                   | (Optional) interface Maximum Transmission Unit |
| <i>bandwidth</i>             | (Optional) interface Bandwidth in kilobits     |
| <i>encap-type</i>            | (Optional)                                     |
| <i>keepalive-period</i>      | (Optional) keealive period                     |
| <i>keepalive-retries</i>     | (Optional) number of retries                   |
| <i>src-ipv4</i>              | (Optional) tunnel source IPv4 address          |
| <i>src-intf</i>              | (Optional) tunnel source interface             |
| <i>dest-ipv4</i>             | (Optional) tunnel destination IPv4 address     |
| <i>dest-hostname</i>         | (Optional) tunnel destination hostname         |
| <i>vrf_name</i>              | (Optional) transport VRF name                  |
| <i>tunnel_vrf_name</i>       | (Optional) tunnel VRF name                     |
| <i>wccp_header</i>           | (Optional) wccp header                         |
| <i>ttl_val</i>               | (Optional) tunnel time to live value           |
| <i>tunnel_pmtud_age_time</i> | (Optional) tunnel path MTU discovery age time  |
| <i>tunnel_pmtud_min_mtu</i>  | (Optional) tunnel path MTU discovery min mtu   |
| <i>tunnel_pmtud</i>          | (Optional) tunnel path MTU discovered          |
| <i>tunnel_pgm_mtu</i>        | (Optional) tunnel actual programmed MTU        |
| <i>tunnel_rx_pkt_count</i>   | (Optional) total number of packets received    |

|                               |   |
|-------------------------------|---|
| <i>tunnel_rx_byte_count</i>   | (Optional) total number of bytes received           |
| <i>tunnel_rx_rate</i>         | (Optional) packets input rate per 5 minutes         |
| <i>tunnel_tx_pkt_count</i>    | (Optional) total number of packets transmitted      |
| <i>tunnel_tx_byte_count</i>   | (Optional) total number of bytes transmitted        |
| <i>tunnel_tx_rate</i>         | (Optional) packets transmitted per 5 minutes        |
| <i>tunnel_clear_counter</i>   | (Optional) Last clearing of show interface counters |
| <i>svi_if_index</i>           | (Optional) Interface                                |
| <i>svi_admin_state</i>        | (Optional)  |
| <i>oper_state</i>             | (Optional)  |
| <i>svi_rsn_desc</i>           | (Optional) Interface state reason detailed          |
| <i>svi_line_proto</i>         | (Optional)  |
| <i>svi_hw</i>                 | (Optional) Hardware                                 |
| <i>svi_mac</i>                | (Optional) Address                                  |
| <i>svi_desc</i>               | (Optional) Interface Description                    |
| <i>svi_ip_addr</i>            | (Optional) IP Address                               |
| <i>svi_ip_mask</i>            | (Optional) IP address mask                          |
| <i>svi_mtu</i>                | (Optional) MTU size in bytes                        |
| <i>svi_bw</i>                 | (Optional) Bandwidth in kilobits                    |
| <i>svi_delay</i>              | (Optional) Throughput delay (tens of microseconds)  |
| <i>vlan_id</i>                | (Optional) Vlan                                     |
| <i>type</i>                   | (Optional) type                                     |
| <i>svi_tx_load</i>            | (Optional) Tx Load                                  |
| <i>svi_rx_load</i>            | (Optional) Rx Load                                  |
| <i>svi_carrier_delay_sec</i>  | (Optional) carrier delay value in seconds           |
| <i>svi_carrier_delay_msec</i> | (Optional) carrier delay value in milli-seconds     |
| <i>svi_arp_type</i>           | (Optional) ARP type                                 |
| <i>svi_arp_timeout</i>        | (Optional) ARP timeout value                        |
| <i>svi_time_last_cleared</i>  | (Optional) Time last cleared                        |
| TABLE_sec_vlan                | (Optional) secondary vlans                          |

|                               |   |
|-------------------------------|---|
| <i>sec_vlan</i>               | (Optional) vlan id                                  |
| <i>sec_vlan_type</i>          | (Optional) secondary vlan type                      |
| <i>svi_reliability</i>        | (Optional) Reliability                              |
| <i>overlay_addr</i>           | (Optional) Overlay address                          |
| <i>overlay_addr_mask</i>      | (Optional) Overlay address mask                     |
| <i>overlay_mtu</i>            | (Optional) MTU                                      |
| <i>overlay_bandwidth</i>      | (Optional) Bandwidth                                |
| <i>overlay_encap_str</i>      | (Optional) Encap type                               |
| <i>overlay_vrf</i>            | (Optional) VRF                                      |
| <i>overlay_src_addr</i>       | (Optional) Source address                           |
| <i>overlay_dst_addr</i>       | (Optional) Destination address                      |
| <i>overlay_last_link_flap</i> | (Optional) Last link flap                           |
| <i>overlay_clear_counters</i> | (Optional) Last clearing of show interface counters |
| <i>overlay_load_interval</i>  | (Optional) Load interval                            |
| <i>overlay_rx_ucastpkts</i>   | (Optional) Received ucast pkts                      |
| <i>overlay_rx_ucastbytes</i>  | (Optional) Received ucast bytes                     |
| <i>overlay_rx_mcastpkts</i>   | (Optional) Received mcast pkts                      |
| <i>overlay_rx_mcastbytes</i>  | (Optional) Received mcast bytes                     |
| <i>overlay_rx_bcastpkts</i>   | (Optional) Received bcast pkts                      |
| <i>overlay_rx_bcastbytes</i>  | (Optional) Received bcast bytes                     |
| <i>overlay_rx_pkts</i>        | (Optional) Total received pkts                      |
| <i>overlay_rx_bytes</i>       | (Optional) Total received bytes                     |
| <i>overlay_rx_bitrate</i>     | (Optional) Receive bit rate                         |
| <i>overlay_rx_pktrate</i>     | (Optional) Receive pkt rate                         |
| <i>overlay_tx_ucastpkts</i>   | (Optional) Trasnmitted ucast pkts                   |
| <i>overlay_tx_ucastbytes</i>  | (Optional) Trasnmitted ucast bytes                  |
| <i>overlay_tx_mcastpkts</i>   | (Optional) Trasnmitted mcast pkts                   |
| <i>overlay_tx_mcastbytes</i>  | (Optional) Trasnmitted mcast bytes                  |
| <i>overlay_tx_bcastpkts</i>   | (Optional) Trasnmitted bcast pkts                   |

|                              |                                    |
|------------------------------|------------------------------------|
| <i>overlay_tx_bcastbytes</i> | (Optional) Trasnmitted beast bytes |
| <i>overlay_tx_pkts</i>       | (Optional) Total transmitted pkts  |
| <i>overlay_tx_bytes</i>      | (Optional) Total transmitted bytes |
| <i>overlay_tx_bitrate</i>    | (Optional) Transmit bit rate       |
| <i>overlay_tx_pktrate</i>    | (Optional) Transmit pkt rate       |
| <i>switchport</i>            | (Optional) Switchport enabled      |

**Command Mode**

- /exec

# show interface

```
show interface <iftun_desc> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ] [
<desc> ] <admin-state> { <tunnel-ipv4> | <tunnel-ipv6> } <mtu> <bandwidth> <encap-type>
<keepalive-period> <keepalive-retries> { <src-ipv4> | <src-ipv6> } <src-intf> { <dest-ipv4> | <dest-ipv6> }
<dest-hostname> <vrf_name> <tunnel_vrf_name> <wccp_header> <ttl_val> <tunnel_pmtud_age_time>
<tunnel_pmtud_min_mtu> <tunnel_pmtud> <tunnel_pgm_mtu> <tunnel_rx_pkt_count>
<tunnel_rx_byte_count> <tunnel_rx_rate> <tunnel_tx_pkt_count> <tunnel_tx_byte_count> <tunnel_tx_rate>
<tunnel_clear_counter> ]
```

## Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information                |
| interface                | Show interface status and information          |
| <i>iftun_desc</i>        | Enter tunnel interface number                  |
| <i>__readonly__</i>      | (Optional) Read Only                           |
| <i>interface</i>         | (Optional) Interface index                     |
| TABLE_interface          | (Optional) show interface                      |
| <i>state</i>             | (Optional) Interface state                     |
| <i>state_rsn_desc</i>    | (Optional) Interface state reason detailed     |
| <i>desc</i>              | (Optional) Interface description               |
| <i>admin-state</i>       | (Optional)                                     |
| <i>tunnel-ipv4</i>       | (Optional) interface IPv4 address              |
| <i>mtu</i>               | (Optional) interface Maximum Transmission Unit |
| <i>bandwidth</i>         | (Optional) interface Bandwidth in kilobits     |
| <i>encap-type</i>        | (Optional)                                     |
| <i>keepalive-period</i>  | (Optional) keealive period                     |
| <i>keepalive-retries</i> | (Optional) number of retries                   |
| <i>src-ipv4</i>          | (Optional) tunnel source IPv4 address          |
| <i>src-intf</i>          | (Optional) tunnel source interface             |
| <i>dest-ipv4</i>         | (Optional) tunnel destination IPv4 address     |
| <i>dest-hostname</i>     | (Optional) tunnel destination hostname         |
| <i>vrf_name</i>          | (Optional) transport VRF name                  |
| <i>tunnel_vrf_name</i>   | (Optional) tunnel VRF name                     |

|                              |   |
|------------------------------|---|
| <i>wccp_header</i>           | (Optional) wccp header                              |
| <i>ttl_val</i>               | (Optional) tunnel time to live value                |
| <i>tunnel_pmtud_age_time</i> | (Optional) tunnel path MTU discovery age time       |
| <i>tunnel_pmtud_min_mtu</i>  | (Optional) tunnel path MTU discovery min mtu        |
| <i>tunnel_pmtud</i>          | (Optional) tunnel path MTU discovered               |
| <i>tunnel_pgm_mtu</i>        | (Optional) tunnel actual programmed MTU             |
| <i>tunnel_rx_pkt_count</i>   | (Optional) total number of packets received         |
| <i>tunnel_rx_byte_count</i>  | (Optional) total number of bytes received           |
| <i>tunnel_rx_rate</i>        | (Optional) packets input rate per 5 minutes         |
| <i>tunnel_tx_pkt_count</i>   | (Optional) total number of packets transmitted      |
| <i>tunnel_tx_byte_count</i>  | (Optional) total number of bytes transmitted        |
| <i>tunnel_tx_rate</i>        | (Optional) packets transmitted per 5 minutes        |
| <i>tunnel_clear_counter</i>  | (Optional) Last clearing of show interface counters |

**Command Mode**

- /exec



## show interface

```
show interface <ifeth> [ quick ] [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ]
[ <state_rsn> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <admin_state> ] [ <share_state> ] [ <parent_interface>
] [ <vpc_status> ] [ <eth_bundle> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [
<eth_ip_addr> ] [ <eth_ip_mask> ] [ <eth_ip_prefix> ] [ <eth_mtu> ] + [ <eth_bw> ] [ <eth_dly> ] [
<eth_reliability> ] [ <eth_txload> ] [ <eth_rxload> ] [ <eth_encap_vlan> ] [ <encapsulation> ] [ <medium>
] [ <eth_mode> ] [ <eth_duplex> ] [ <eth_speed> ] [ <eth_media> ] [ <eth_beacon> ] [ <eth_autoneg> ] [
<eth_in_flowctrl> ] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [ <eth_ratemode> ] [ <eth_sw_t_monitor> ] [
<eth_ethertype> ] [ <eth_eee_state> ] [ <eth_admin_fec_state> ] [ <eth_oper_fec_state> ] [ <eth_members>
] [ <eth_link_flapped> ] [ <eth_clear_counters> ] [ <eth_reset_cntr> ] [ <eth_load_interval1_rx> ] [
<eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [ <eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [
<eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits> ] [ <eth_inrate1_summary_pkts> ] [
<eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [ <eth_load_interval2_rx> ] [
<eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [ <eth_outrate2_bits> ] [
<eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts> ] [
<eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_pkts> ] [ <eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes>
] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [
<eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [ <eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes>
] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [
<eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [
<eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [ <eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [
<eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [ <eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [
<eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_inpkts> ] [ <eth_inbytes> ] [ <eth_jumbo_inpkts>
] [ <eth_storm_supp> ] [ <eth_runts> ] [ <eth_giants> ] [ <eth_crc> ] [ <eth_nobuf> ] [ <eth_inerr> ] [
<eth_frame> ] [ <eth_overrun> ] [ <eth_underrun> ] [ <eth_ignored> ] [ <eth_watchdog> ] [ <eth_bad_eth>
] [ <eth_bad_proto> ] [ <eth_in_ifdown_drops> ] [ <eth_dribble> ] [ <eth_indiscard> ] [ <eth_inpause> ] [
<eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_outpkts> ] [ <eth_outbytes> ] [
<eth_jumbo_outpkts> ] [ <eth_outerr> ] [ <eth_coll> ] [ <eth_deferred> ] [ <eth_latecoll> ] [ <eth_lostcarrier>
] [ <eth_nocarrier> ] [ <eth_babbles> ] [ <eth_outdiscard> ] [ <eth_outpause> ] [ <switchport> ] ]
```

### Syntax Description

|                  |   |
|------------------|---|
| show             | Show running system information                       |
| interface        | Show interface status and information                 |
| <i>ifeth</i>     | Enter interface type and number in module/slot format |
| quick            | (Optional) Show info of interface skipping stats      |
| __readonly__     | (Optional) Read Only                                  |
| <i>interface</i> | (Optional) Interface index                            |
| TABLE_interface  | (Optional) show interface                             |
| <i>state</i>     | (Optional) Interface state                            |

|                         |  |
|-------------------------|--|
| <i>state_rsn_desc</i>   | (Optional) Interface state reason detailed |
| <i>state_rsn</i>        | (Optional) Interface state reason          |
| <i>eth_rsn_fac</i>      | (Optional) State reason facility           |
| <i>eth_rsn_code</i>     | (Optional) State reason code               |
| <i>admin_state</i>      | (Optional) admin state                     |
| <i>share_state</i>      | (Optional) Interface ownership             |
| <i>parent_interface</i> | (Optional) parent interface                |
| <i>vpc_status</i>       | (Optional) VPC status                      |
| <i>eth_bundle</i>       | (Optional) Belongs to bundle               |
| <i>eth_hw_desc</i>      | (Optional) HW description                  |
| <i>eth_hw_addr</i>      | (Optional) HW address                      |
| <i>eth_bia_addr</i>     | (Optional) bia address                     |
| <i>desc</i>             | (Optional) Interface description           |
| <i>eth_ip_addr</i>      | (Optional) IP Address                      |
| <i>eth_ip_mask</i>      | (Optional) IP address mask                 |
| <i>eth_ip_prefix</i>    | (Optional) IP address prefix               |
| <i>eth_mtu</i>          | (Optional) MTU                             |
| <i>eth_bw</i>           | (Optional) Bandwidth                       |
| <i>eth_dly</i>          | (Optional) Delay                           |
| <i>eth_reliability</i>  | (Optional) Reliability                     |
| <i>eth_txload</i>       | (Optional) Tx load                         |
| <i>eth_rxload</i>       | (Optional) Rx load                         |
| <i>eth_encap_vlan</i>   | (Optional) Encapsulation Vlan              |
| <i>encapsulation</i>    | (Optional) Encapsulation                   |
| <i>medium</i>           | (Optional) medium type                     |
| <i>eth_mode</i>         | (Optional) Port mode                       |
| <i>eth_duplex</i>       | (Optional) Duplex                          |
| <i>eth_speed</i>        | (Optional) Speed                           |
| <i>eth_media</i>        | (Optional) Media type                      |

|                                  |   |
|----------------------------------|---|
| <i>eth_beacon</i>                | (Optional) Beacon                                   |
| <i>eth_autoneg</i>               | (Optional) Autonegotiation                          |
| <i>eth_in_flowctrl</i>           | (Optional) Input flowcontrol                        |
| <i>eth_out_flowctrl</i>          | (Optional) Output flowcontrol                       |
| <i>eth_mdix</i>                  | (Optional) Mdix                                     |
| <i>eth_ratemode</i>              | (Optional) Rate mode                                |
| <i>eth_swt_monitor</i>           | (Optional) Switchport Monitor                       |
| <i>eth_ethertype</i>             | (Optional) EtherType                                |
| <i>eth_eee_state</i>             | (Optional) EEE state                                |
| <i>eth_admin_fec_state</i>       | (Optional) Admin FEC state                          |
| <i>eth_oper_fec_state</i>        | (Optional) Oper FEC state                           |
| <i>eth_members</i>               | (Optional) Members in this channel                  |
| <i>eth_link_flapped</i>          | (Optional) Last link flapped                        |
| <i>eth_clear_counters</i>        | (Optional) Last clearing of show interface counters |
| <i>eth_reset_cntr</i>            | (Optional) Interface resets                         |
| <i>eth_load_interval1_rx</i>     | (Optional) interval 1 timer value in sec            |
| <i>eth_inrate1_bits</i>          | (Optional) interval 1 input rate bits/sec           |
| <i>eth_inrate1_pkts</i>          | (Optional) interval 1 input rate pkts/sec           |
| <i>eth_load_interval1_tx</i>     | (Optional) interval 1 timer value in sec            |
| <i>eth_outrate1_bits</i>         | (Optional) interval 1 output rate bits/sec          |
| <i>eth_outrate1_pkts</i>         | (Optional) interval 1 output rate pkts/sec          |
| <i>eth_inrate1_summary_bits</i>  | (Optional) interval 1 input rate bit summary        |
| <i>eth_inrate1_summary_pkts</i>  | (Optional) interval 1 input rate pkt summary        |
| <i>eth_outrate1_summary_bits</i> | (Optional) interval 1 output rate bit summary       |
| <i>eth_outrate1_summary_pkts</i> | (Optional) interval 1 output rate pkt summary       |
| <i>eth_load_interval2_rx</i>     | (Optional) interval 2 timer value in sec            |
| <i>eth_inrate2_bits</i>          | (Optional) interval 2 input rate bits/sec           |
| <i>eth_inrate2_pkts</i>          | (Optional) interval 2 input rate pkts/sec           |
| <i>eth_load_interval2_tx</i>     | (Optional) interval 2 timer value in sec            |

|                                  |   |
|----------------------------------|---|
| <i>eth_outrate2_bits</i>         | (Optional) interval 2 output rate bits/sec    |
| <i>eth_outrate2_pkts</i>         | (Optional) interval 2 output rate pkts/sec    |
| <i>eth_inrate2_summary_bits</i>  | (Optional) interval 2 input rate bit summary  |
| <i>eth_inrate2_summary_pkts</i>  | (Optional) interval 2 input rate pkt summary  |
| <i>eth_outrate2_summary_bits</i> | (Optional) interval 2 output rate bit summary |
| <i>eth_outrate2_summary_pkts</i> | (Optional) interval 2 output rate pkt summary |
| <i>eth_load_interval3_rx</i>     | (Optional) interval 3 timer value in sec      |
| <i>eth_inrate3_bits</i>          | (Optional) interval 3 input rate bits/sec     |
| <i>eth_inrate3_pkts</i>          | (Optional) interval 3 input rate pkts/sec     |
| <i>eth_load_interval3_tx</i>     | (Optional) interval 3 timer value in sec      |
| <i>eth_outrate3_bits</i>         | (Optional) interval 3 output rate bits/sec    |
| <i>eth_outrate3_pkts</i>         | (Optional) interval 3 output rate pkts/sec    |
| <i>eth_inrate3_summary_bits</i>  | (Optional) interval 3 input rate bit summary  |
| <i>eth_inrate3_summary_pkts</i>  | (Optional) interval 3 input rate pkt summary  |
| <i>eth_outrate3_summary_bits</i> | (Optional) interval 3 output rate bit summary |
| <i>eth_outrate3_summary_pkts</i> | (Optional) interval 3 output rate pkt summary |
| <i>eth_l2_ucastpkts</i>          | (Optional) L2 switched ucast pkts             |
| <i>eth_l2_ucastbytes</i>         | (Optional) L2 switched ucast bytes            |
| <i>eth_l2_mcastpkts</i>          | (Optional) L2 switched mcast pkts             |
| <i>eth_l2_mcastbytes</i>         | (Optional) L2 switched mcast bytes            |
| <i>eth_l2_bcastpkts</i>          | (Optional) L2 switched bcast pkts             |
| <i>eth_l2_bcastbytes</i>         | (Optional) L2 switched bcast bytes            |
| <i>eth_l3in_ucastpkts</i>        | (Optional) L3 in switched ucast pkts          |
| <i>eth_l3in_ucastbytes</i>       | (Optional) L3 in switched ucast bytes         |
| <i>eth_l3in_mcastpkts</i>        | (Optional) L3 in switched mcast pkts          |
| <i>eth_l3in_mcastbytes</i>       | (Optional) L3 in switched mcast bytes         |
| <i>eth_l3in_bcastpkts</i>        | (Optional) L3 in switched bcast pkts          |
| <i>eth_l3in_bcastbytes</i>       | (Optional) L3 in switched bcast bytes         |
| <i>eth_l3out_ucastpkts</i>       | (Optional) L3 out switched ucast pkts         |

|                               |  |
|-------------------------------|--|
| <i>eth_l3out_ucastbytes</i>   | (Optional) L3 out switched ucast bytes                   |
| <i>eth_l3out_mcastpkts</i>    | (Optional) L3 out switched mcast pkts                    |
| <i>eth_l3out_mcastbytes</i>   | (Optional) L3 out switched mcast bytes                   |
| <i>eth_l3out_bcastpkts</i>    | (Optional) L3 out switched bcast pkts                    |
| <i>eth_l3out_bcastbytes</i>   | (Optional) L3 out switched bcast bytes                   |
| <i>eth_l3in_routed_pkts</i>   | (Optional) L3 in routed pkts                             |
| <i>eth_l3in_routed_bytes</i>  | (Optional) L3 in routed bytes                            |
| <i>eth_l3out_routed_pkts</i>  | (Optional) L3 out routed pkts                            |
| <i>eth_l3out_routed_bytes</i> | (Optional) L3 out routed bytes                           |
| <i>eth_l3avg1_inbytes</i>     | (Optional) Load interval 1 L3 average in switched bytes  |
| <i>eth_l3avg1_inpkts</i>      | (Optional) Load interval 1 L3 average in switched pkts   |
| <i>eth_l3avg1_outbytes</i>    | (Optional) Load interval 1 L3 average out switched bytes |
| <i>eth_l3avg1_outpkts</i>     | (Optional) Load interval 1 L3 average out switched pkts  |
| <i>eth_inucast</i>            | (Optional) Unicasts                                      |
| <i>eth_inmcast</i>            | (Optional) Multicasts                                    |
| <i>eth_inbcast</i>            | (Optional) Broadcasts                                    |
| <i>eth_inpkts</i>             | (Optional) Packets input                                 |
| <i>eth_inbytes</i>            | (Optional) Bytes input                                   |
| <i>eth_jumbo_inpkts</i>       | (Optional) Incoming jumbo pkts                           |
| <i>eth_storm_supp</i>         | (Optional) storm suppression                             |
| <i>eth_runts</i>              | (Optional) runts   |
| <i>eth_giants</i>             | (Optional) giants  |
| <i>eth_crc</i>                | (Optional) CRC   |
| <i>eth_nobuf</i>              | (Optional) No buffer received                            |
| <i>eth_inerr</i>              | (Optional) input errors                                  |
| <i>eth_frame</i>              | (Optional) frame   |
| <i>eth_overnrun</i>           | (Optional) overrun                                       |
| <i>eth_underrun</i>           | (Optional) underruns                                     |
| <i>eth_ignored</i>            | (Optional) ignored                                       |

|                            |   |
|----------------------------|---|
| <i>eth_watchdog</i>        | (Optional) watchdog                             |
| <i>eth_bad_eth</i>         | (Optional) bad ether type drop                  |
| <i>eth_bad_proto</i>       | (Optional) bad protocol drops                   |
| <i>eth_in_ifdown_drops</i> | (Optional) Input if-down drops                  |
| <i>eth_dribble</i>         | (Optional) input packets with dribble condition |
| <i>eth_indiscard</i>       | (Optional) discards                             |
| <i>eth_inpause</i>         | (Optional) pause input                          |
| <i>eth_outucast</i>        | (Optional) Unicasts                             |
| <i>eth_outmcast</i>        | (Optional) Multicasts                           |
| <i>eth_outbcast</i>        | (Optional) Broadcasts                           |
| <i>eth_outpkts</i>         | (Optional) packets output                       |
| <i>eth_outbytes</i>        | (Optional) bytes output                         |
| <i>eth_jumbo_outpkts</i>   | (Optional) Outgoing jumbo pkts                  |
| <i>eth_outerr</i>          | (Optional) output errors                        |
| <i>eth_coll</i>            | (Optional) collisions                           |
| <i>eth_deferred</i>        | (Optional) deferred                             |
| <i>eth_latecoll</i>        | (Optional) late collision                       |
| <i>eth_lostcarrier</i>     | (Optional) lost carrier                         |
| <i>eth_nocarrier</i>       | (Optional) no carrier                           |
| <i>eth_babbles</i>         | (Optional) babbles                              |
| <i>eth_outdiscard</i>      | (Optional) output discard                       |
| <i>eth_outpause</i>        | (Optional) PAUSE output                         |
| <i>switchport</i>          | (Optional) Switchport enabled                   |

### Command Mode

- /exec

# show interface

```
show interface <ifrange> [ __readonly__ TABLE_interface <interface> <state> <state_rsn> <state_rsn_desc>
<desc> [ <overlay_addr> ] [ <overlay_addr_mask> ] [ <overlay_mtu> ] [ <overlay_bandwidth> ] [
<overlay_encap_str> ] [ <overlay_vrf> ] [ <overlay_src_addr> ] [ <overlay_dst_addr> ] [
<overlay_last_link_flap> ] [ <overlay_clear_counters> ] [ <overlay_load_interval> ] [ <overlay_rx_ucastpkts>
] [ <overlay_rx_ucastbytes> ] [ <overlay_rx_mcastpkts> ] [ <overlay_rx_mcastbytes> ] [ <overlay_rx_pkts>
] [ <overlay_rx_bytes> ] [ <overlay_rx_bcastpkts> ] [ <overlay_rx_bcastbytes> ] [ <overlay_rx_bitrate> ] [
<overlay_rx_pktrate> ] [ <overlay_tx_ucastpkts> ] [ <overlay_tx_ucastbytes> ] [ <overlay_tx_mcastpkts> ]
[ <overlay_tx_mcastbytes> ] [ <overlay_tx_bcastpkts> ] [ <overlay_tx_bcastbytes> ] [ <overlay_tx_pkts> ]
[ <overlay_tx_bytes> ] [ <overlay_tx_bitrate> ] [ <overlay_tx_pktrate> ] ]
```

## Syntax Description

|                               |   |
|-------------------------------|---|
| show                          | Show running system information                     |
| interface                     | Show interface status and information               |
| <i>ifrange</i>                | Enter interface type and number                     |
| <i>__readonly__</i>           | (Optional) Read Only                                |
| <i>interface</i>              | (Optional) Interface index                          |
| TABLE_interface               | (Optional) show interface                           |
| <i>state</i>                  | (Optional) Interface state                          |
| <i>state_rsn</i>              | (Optional) Interface state reason                   |
| <i>state_rsn_desc</i>         | (Optional) Interface state reason detailed          |
| <i>desc</i>                   | (Optional) Interface description                    |
| <i>overlay_addr</i>           | (Optional) Overlay address                          |
| <i>overlay_addr_mask</i>      | (Optional) Overlay address mask                     |
| <i>overlay_mtu</i>            | (Optional) MTU                                      |
| <i>overlay_bandwidth</i>      | (Optional) Bandwidth                                |
| <i>overlay_encap_str</i>      | (Optional) Encap type                               |
| <i>overlay_vrf</i>            | (Optional) VRF                                      |
| <i>overlay_src_addr</i>       | (Optional) Source address                           |
| <i>overlay_dst_addr</i>       | (Optional) Destination address                      |
| <i>overlay_last_link_flap</i> | (Optional) Last link flap                           |
| <i>overlay_clear_counters</i> | (Optional) Last clearing of show interface counters |

|                              |                                    |
|------------------------------|------------------------------------|
| <i>overlay_load_interval</i> | (Optional) Load interval           |
| <i>overlay_rx_ucastpkts</i>  | (Optional) Received ucast pkts     |
| <i>overlay_rx_ucastbytes</i> | (Optional) Received ucast bytes    |
| <i>overlay_rx_mcastpkts</i>  | (Optional) Received mcast pkts     |
| <i>overlay_rx_mcastbytes</i> | (Optional) Received mcast bytes    |
| <i>overlay_rx_bcastpkts</i>  | (Optional) Received bcast pkts     |
| <i>overlay_rx_bcastbytes</i> | (Optional) Received bcast bytes    |
| <i>overlay_rx_pkts</i>       | (Optional) Total received pkts     |
| <i>overlay_rx_bytes</i>      | (Optional) Total received bytes    |
| <i>overlay_rx_bitrate</i>    | (Optional) Receive bit rate        |
| <i>overlay_rx_pktrate</i>    | (Optional) Receive pkt rate        |
| <i>overlay_tx_ucastpkts</i>  | (Optional) Trasnmitted ucast pkts  |
| <i>overlay_tx_ucastbytes</i> | (Optional) Trasnmitted ucast bytes |
| <i>overlay_tx_mcastpkts</i>  | (Optional) Trasnmitted mcast pkts  |
| <i>overlay_tx_mcastbytes</i> | (Optional) Trasnmitted mcast bytes |
| <i>overlay_tx_bcastpkts</i>  | (Optional) Trasnmitted bcast pkts  |
| <i>overlay_tx_bcastbytes</i> | (Optional) Trasnmitted bcast bytes |
| <i>overlay_tx_pkts</i>       | (Optional) Total transmitted pkts  |
| <i>overlay_tx_bytes</i>      | (Optional) Total transmitted bytes |
| <i>overlay_tx_bitrate</i>    | (Optional) Transmit bit rate       |
| <i>overlay_tx_pktrate</i>    | (Optional) Transmit pkt rate       |

### Command Mode

- /exec



# show interface

```
show interface <ifrange> [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn_desc> ] [
<state_rsn> ] [ <admin_state> ] [ <eth_rsn_fac> ] [ <eth_rsn_code> ] [ <share_state> ] [ <vpc_status> ] [
<eth_bundle> ] [ <eth_hw_desc> ] [ <eth_hw_addr> ] [ <eth_bia_addr> ] [ <desc> ] [ <eth_ip_addr> ] [
<eth_ip_mask> ] [ <eth_mtu> ] [ <eth_bw> ] [ <eth_dly> ] [ <eth_reliability> ] [ <eth_txload> ] [ <eth_rxload>
] [ <eth_encap_vlan> ] [ <encapsulation> ] [ <eth_mode> ] [ <eth_duplex> ] [ <eth_speed> ] [ <eth_media>
] [ <eth_beacon> ] [ <eth_autoneg> ] [ <eth_in_flowctrl> ] [ <eth_out_flowctrl> ] [ <eth_mdix> ] [
<eth_ratemode> ] [ <eth_swt_monitor> ] [ <eth_etherstype> ] [ <eth_members> ] [ <eth_link_flapped> ] [
<eth_clear_counters> ] [ <eth_reset_cntr> ] [ <nve_addr> ] [ <nve_addr_mask> ] [ <nve_vcid> ] [ <nve_mtu>
] [ <nve_bandwidth> ] [ <nve_encap_str> ] [ <nve_vrf> ] [ <nve_src_addr> ] [ <nve_dst_addr> ] [
<nve_last_link_flap> ] [ <nve_clear_counters> ] [ <nve_load_interval> ] [ <nve_rx_ucastpkts> ] [
<nve_rx_ucastbytes> ] [ <nve_rx_mcastpkts> ] [ <nve_rx_mcastbytes> ] [ <nve_rx_pkts> ] [ <nve_rx_bytes>
] [ <nve_rx_bcastpkts> ] [ <nve_rx_bcastbytes> ] [ <nve_rx_bitrate> ] [ <nve_rx_pktrate> ] [
<nve_tx_ucastpkts> ] [ <nve_tx_ucastbytes> ] [ <nve_tx_mcastpkts> ] [ <nve_tx_mcastbytes> ] [
<nve_tx_bcastpkts> ] [ <nve_tx_bcastbytes> ] [ <nve_tx_pkts> ] [ <nve_tx_bytes> ] [ <nve_tx_bitrate> ] [
<nve_tx_pktrate> ] ] ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information            |
| interface             | Show interface status and information      |
| <i>ifrange</i>        | Enter interface type and number            |
| <i>__readonly__</i>   | (Optional) Read Only                       |
| <i>interface</i>      | (Optional) Interface index                 |
| TABLE_interface       | (Optional) show interface                  |
| <i>state</i>          | (Optional) Interface state                 |
| <i>state_rsn_desc</i> | (Optional) Interface state reason detailed |
| <i>state_rsn</i>      | (Optional) Interface state reason          |
| <i>admin_state</i>    | (Optional) admin state                     |
| <i>eth_rsn_fac</i>    | (Optional) State reason facility           |
| <i>eth_rsn_code</i>   | (Optional) State reason code               |
| <i>share_state</i>    | (Optional) Interface ownership             |
| <i>vpc_status</i>     | (Optional) VPC status                      |
| <i>eth_bundle</i>     | (Optional) Belongs to bundle               |
| <i>eth_hw_desc</i>    | (Optional) HW description                  |
| <i>eth_hw_addr</i>    | (Optional) HW address                      |

|                           |   |
|---------------------------|---|
| <i>eth_bia_addr</i>       | (Optional) bia address                              |
| <i>desc</i>               | (Optional) Interface description                    |
| <i>eth_ip_addr</i>        | (Optional) IP Address                               |
| <i>eth_ip_mask</i>        | (Optional) IP address mask                          |
| <i>eth_mtu</i>            | (Optional) MTU                                      |
| <i>eth_bw</i>             | (Optional) Bandwidth                                |
| <i>eth_dly</i>            | (Optional) Delay                                    |
| <i>eth_reliability</i>    | (Optional) Reliability                              |
| <i>eth_txload</i>         | (Optional) Tx load                                  |
| <i>eth_rxload</i>         | (Optional) Rx load                                  |
| <i>eth_encap_vlan</i>     | (Optional) Encapsulation Vlan                       |
| <i>encapsulation</i>      | (Optional) Encapsulation                            |
| <i>eth_mode</i>           | (Optional) Port mode                                |
| <i>eth_duplex</i>         | (Optional) Duplex                                   |
| <i>eth_speed</i>          | (Optional) Speed                                    |
| <i>eth_media</i>          | (Optional) Media type                               |
| <i>eth_beacon</i>         | (Optional) Beacon                                   |
| <i>eth_autoneg</i>        | (Optional) Autonegotiation                          |
| <i>eth_in_flowctrl</i>    | (Optional) Input flowcontrol                        |
| <i>eth_out_flowctrl</i>   | (Optional) Output flowcontrol                       |
| <i>eth_mdix</i>           | (Optional) Mdx                                      |
| <i>eth_ratemode</i>       | (Optional) Rate mode                                |
| <i>eth_swt_monitor</i>    | (Optional) Switchport Monitor                       |
| <i>eth_etherstype</i>     | (Optional) EtherType                                |
| <i>eth_members</i>        | (Optional) Members in this channel                  |
| <i>eth_link_flapped</i>   | (Optional) Last link flapped                        |
| <i>eth_clear_counters</i> | (Optional) Last clearing of show interface counters |
| <i>eth_reset_cntr</i>     | (Optional) Interface resets                         |
| <i>nve_addr</i>           | (Optional) Peer address                             |

|                           |   |
|---------------------------|---|
| <i>nve_addr_mask</i>      | (Optional) Peer address mask                        |
| <i>nve_vcid</i>           | (Optional) VCID                                     |
| <i>nve_mtu</i>            | (Optional) MTU                                      |
| <i>nve_bandwidth</i>      | (Optional) Bandwidth                                |
| <i>nve_encap_str</i>      | (Optional) Encap type                               |
| <i>nve_vrf</i>            | (Optional) VRF                                      |
| <i>nve_src_addr</i>       | (Optional) Source address                           |
| <i>nve_dst_addr</i>       | (Optional) Destination address                      |
| <i>nve_last_link_flap</i> | (Optional) Last link flap                           |
| <i>nve_clear_counters</i> | (Optional) Last clearing of show interface counters |
| <i>nve_load_interval</i>  | (Optional) Load interval                            |
| <i>nve_rx_ucastpkts</i>   | (Optional) Received ucast pkts                      |
| <i>nve_rx_ucastbytes</i>  | (Optional) Received ucast bytes                     |
| <i>nve_rx_mcastpkts</i>   | (Optional) Received mcast pkts                      |
| <i>nve_rx_mcastbytes</i>  | (Optional) Received mcast bytes                     |
| <i>nve_rx_bcastpkts</i>   | (Optional) Received bcast pkts                      |
| <i>nve_rx_bcastbytes</i>  | (Optional) Received bcast bytes                     |
| <i>nve_rx_pkts</i>        | (Optional) Total received pkts                      |
| <i>nve_rx_bytes</i>       | (Optional) Total received bytes                     |
| <i>nve_rx_bitrate</i>     | (Optional) Receive bit rate                         |
| <i>nve_rx_pktrate</i>     | (Optional) Receive pkt rate                         |
| <i>nve_tx_ucastpkts</i>   | (Optional) Trasnmitted ucast pkts                   |
| <i>nve_tx_ucastbytes</i>  | (Optional) Trasnmitted ucast bytes                  |
| <i>nve_tx_mcastpkts</i>   | (Optional) Trasnmitted mcast pkts                   |
| <i>nve_tx_mcastbytes</i>  | (Optional) Trasnmitted mcast bytes                  |
| <i>nve_tx_bcastpkts</i>   | (Optional) Trasnmitted bcast pkts                   |
| <i>nve_tx_bcastbytes</i>  | (Optional) Trasnmitted bcast bytes                  |
| <i>nve_tx_pkts</i>        | (Optional) Total transmitted pkts                   |
| <i>nve_tx_bytes</i>       | (Optional) Total transmitted bytes                  |

|                       |                              |
|-----------------------|------------------------------|
| <i>nve_tx_bitrate</i> | (Optional) Transmit bit rate |
| <i>nve_tx_pktrate</i> | (Optional) Transmit pkt rate |

**Command Mode**

- /exec

## show interface aggregate-counters

```
show interface aggregate-counters [ brief ] [ __readonly__ TABLE interface <interface_aggr> [ <str_aggr>
] [ <if_index_aggr> ] [ <in_bps_aggr> ] [ <in_byps_aggr> ] [ <in_fps_aggr> ] [ <out_bps_aggr> ] [
<out_byps_aggr> ] [ <out_fps_aggr> ] [ <total_in_frames_aggr> ] [ <total_in_bytes_aggr> ] [
<C2InFrames_aggr> ] [ <C2InOctets_aggr> ] [ <C3InFrames_aggr> ] [ <C3InOctets_aggr> ] [
<CfInFrames_aggr> ] [ <CfInOctets_aggr> ] [ <total_in_discards_aggr> ] [ <total_in_errors_aggr> ] [
<InvalidCrcs_aggr> ] [ <UnknownClassFrames_aggr> ] [ <FramesTooLong_aggr> ] [ <FramesTooShort_aggr>
] [ <total_out_frames_aggr> ] [ <total_out_bytes_aggr> ] [ <C2OutFrames_aggr> ] [ <C2OutOctets_aggr> ]
[ <C3OutFrames_aggr> ] [ <C3OutOctets_aggr> ] [ <CfOutFrames_aggr> ] [ <CfOutOctets_aggr> ] [
<total_out_discards_aggr> ] [ <total_out_errors_aggr> ] [ <OlsIns_aggr> ] [ <LRRIn_aggr> ] [ <NOSIn_aggr>
] [ <in_lip_aggr> ] [ <OlsOuts_aggr> ] [ <LRROut_aggr> ] [ <NOSOut_aggr> ] [ <out_lip_aggr> ] [
<LinkFailures_aggr> ] [ <SyncLosses_aggr> ] [ <SigLosses_aggr> ] [ <TxBBCreditTransistionToZero_aggr>
] [ <RxBBCreditTransistionToZero_aggr> ] [ <rx_b2b_perf_buff> ] [ <rx_b2b_credit> ] [ <tx_b2b_credit>
] [ <tx_b2b_low_pri_cre> ] [ <InputRate_aggr_brief> ] [ <TotalIpFrame_aggr_brief> ] [ <OutRate_aggr_brief>
] [ <TotalOpFrame_aggr_brief> ] [ <line_aggr_brief> ] ]
```

### Syntax Description

|                             |   |
|-----------------------------|---|
| show                        | Show running system information                       |
| interface                   | Show interface status and information                 |
| aggregate-counters          | Show interface aggregate counters                     |
| brief                       | (Optional) Show interface aggregate counters in brief |
| __readonly__                | (Optional) Read Only                                  |
| <i>interface_aggr</i>       | (Optional) Interface index                            |
| TABLE_interface             | (Optional) show interface                             |
| <i>str_aggr</i>             | (Optional) string                                     |
| <i>if_index_aggr</i>        | (Optional) index                                      |
| <i>in_bps_aggr</i>          | (Optional) input rate in bits/s                       |
| <i>in_byps_aggr</i>         | (Optional) input rate in bytes/s                      |
| <i>in_fps_aggr</i>          | (Optional) input rate in frames/s                     |
| <i>out_bps_aggr</i>         | (Optional) output rate in bits/s                      |
| <i>out_byps_aggr</i>        | (Optional) output rate in bytes/s                     |
| <i>out_fps_aggr</i>         | (Optional) output rate in frames/s                    |
| <i>total_in_frames_aggr</i> | (Optional) total input frames                         |
| <i>total_in_bytes_aggr</i>  | (Optional) total input frames                         |
| <i>C2InFrames_aggr</i>      | (Optional) class-2 frames                             |

|                                |  |
|--------------------------------|--|
| <i>C2InOctets_aggr</i>         | (Optional) class-2 frames in bytes     |
| <i>C3InFrames_aggr</i>         | (Optional) class-3 frames              |
| <i>C3InOctets_aggr</i>         | (Optional) class-3 frames in bytes     |
| <i>CfInFrames_aggr</i>         | (Optional) class-f frames              |
| <i>CfInOctets_aggr</i>         | (Optional) class-f frames in bytes     |
| <i>total_in_discards_aggr</i>  | (Optional) total in discards           |
| <i>total_in_errors_aggr</i>    | (Optional) total in errors             |
| <i>InvalidCrcs_aggr</i>        | (Optional) invalid CRC                 |
| <i>UnknownClassFrames_aggr</i> | (Optional) unknown class               |
| <i>FramesTooLong_aggr</i>      | (Optional) too long                    |
| <i>FramesTooShort_aggr</i>     | (Optional) too short                   |
| <i>total_out_frames_aggr</i>   | (Optional) total out frames            |
| <i>total_out_bytes_aggr</i>    | (Optional) total out frames in byte    |
| <i>C2OutFrames_aggr</i>        | (Optional) class-2 out frames          |
| <i>C2OutOctets_aggr</i>        | (Optional) class-2 out frames in bytes |
| <i>C3OutFrames_aggr</i>        | (Optional) class-3 out frames          |
| <i>C3OutOctets_aggr</i>        | (Optional) class-3 out frames in bytes |
| <i>CfOutFrames_aggr</i>        | (Optional) class-f out frames          |
| <i>CfOutOctets_aggr</i>        | (Optional) class-f out frames in bytes |
| <i>total_out_discards_aggr</i> | (Optional) total out discards          |
| <i>total_out_errors_aggr</i>   | (Optional) total out errors            |
| <i>OlsIns_aggr</i>             | (Optional) input OLS                   |
| <i>LRRIn_aggr</i>              | (Optional) input LRR                   |
| <i>NOSIn_aggr</i>              | (Optional) input NOS                   |
| <i>in_lip_aggr</i>             | (Optional) loop inits                  |
| <i>OlsOuts_aggr</i>            | (Optional) output OLS                  |
| <i>LRROut_aggr</i>             | (Optional) output LRR                  |
| <i>NOSOut_aggr</i>             | (Optional) output NOS                  |
| <i>out_lip_aggr</i>            | (Optional) loop inits                  |

|   |   |
|---|---|
| <i>LinkFailures_aggr</i>                | (Optional) link failure                   |
| <i>SyncLosses_aggr</i>                  | (Optional) sync losses                    |
| <i>SigLosses_aggr</i>                   | (Optional) signal losses                  |
| <i>TxBBCreditTransistionToZero_aggr</i> | (Optional) B2B credit transitions to zero |
| <i>RxBBCreditTransistionToZero_aggr</i> | (Optional) B2B credit transitions to zero |
| <i>rx_b2b_perf_buff</i>                 | (Optional) rx B2B performance buff        |
| <i>rx_b2b_credit</i>                    | (Optional) rx B2B credit                  |
| <i>tx_b2b_credit</i>                    | (Optional) tx B2B credit                  |
| <i>tx_b2b_low_pri_cre</i>               | (Optional) tx B2B low price credit        |
| <i>InputRate_aggr_brief</i>             | (Optional) Input rate in MBps             |
| <i>TotalIpFrame_aggr_brief</i>          | (Optional) Total input frames             |
| <i>OutRate_aggr_brief</i>               | (Optional) Output rate in MBps            |
| <i>TotalOpFrame_aggr_brief</i>          | (Optional) Total output frames            |
| <i>line_aggr_brief</i>                  | (Optional) to print a line                |

#### Command Mode

- /exec

## show interface aggregate-counters

```
show interface <ifid_aggr_ctrs> aggregate-counters [ brief ] [ __readonly__ TABLE_interface <interface_aggr>
[ <str_aggr> ] [ <if_index_aggr> ] [ <in_bps_aggr> ] [ <in_byps_aggr> ] [ <in_fps_aggr> ] [ <out_bps_aggr> ]
[ <out_byps_aggr> ] [ <out_fps_aggr> ] [ <total_in_frames_aggr> ] [ <total_in_bytes_aggr> ] [
<C2InFrames_aggr> ] [ <C2InOctets_aggr> ] [ <C3InFrames_aggr> ] [ <C3InOctets_aggr> ] [
<CfInFrames_aggr> ] [ <CfInOctets_aggr> ] [ <total_in_discards_aggr> ] [ <total_in_errors_aggr> ] [
<InvalidCrcs_aggr> ] [ <UnknownClassFrames_aggr> ] [ <FramesTooLong_aggr> ] [ <FramesTooShort_aggr> ]
[ <total_out_frames_aggr> ] [ <total_out_bytes_aggr> ] [ <C2OutFrames_aggr> ] [ <C2OutOctets_aggr> ]
[ <C3OutFrames_aggr> ] [ <C3OutOctets_aggr> ] [ <CfOutFrames_aggr> ] [ <CfOutOctets_aggr> ] [
<total_out_discards_aggr> ] [ <total_out_errors_aggr> ] [ <OlsIns_aggr> ] [ <LRRIn_aggr> ] [ <NOSIn_aggr> ]
[ <in_lip_aggr> ] [ <OlsOuts_aggr> ] [ <LRROut_aggr> ] [ <NOSOut_aggr> ] [ <out_lip_aggr> ] [
<LinkFailures_aggr> ] [ <SyncLosses_aggr> ] [ <SigLosses_aggr> ] [ <TxBBCreditTransistionToZero_aggr> ]
[ <RxBBCreditTransistionToZero_aggr> ] [ <rx_b2b_perf_buff> ] [ <rx_b2b_credit> ] [ <tx_b2b_credit> ]
[ <tx_b2b_low_pri_cre> ] [ <InputRate_aggr_brief> ] [ <TotalIpFrame_aggr_brief> ] [ <OutRate_aggr_brief> ]
[ <TotalOpFrame_aggr_brief> ] [ <line_aggr_brief> ] ] ]
```

### Syntax Description

|                             |   |
|-----------------------------|---|
| show                        | Show running system information                       |
| interface                   | Show interface status and information                 |
| <i>ifid_aggr_ctrs</i>       | Enter interface type and number in module/slot format |
| aggregate-counters          | Show interface aggregate counters                     |
| brief                       | (Optional) Show interface aggregate counters in brief |
| <i>__readonly__</i>         | (Optional) Read Only                                  |
| <i>interface_aggr</i>       | (Optional) Interface index                            |
| TABLE_interface             | (Optional) show interface                             |
| <i>str_aggr</i>             | (Optional) string                                     |
| <i>if_index_aggr</i>        | (Optional) index                                      |
| <i>in_bps_aggr</i>          | (Optional) input rate in bits/s                       |
| <i>in_byps_aggr</i>         | (Optional) input rate in bytes/s                      |
| <i>in_fps_aggr</i>          | (Optional) input rate in frames/s                     |
| <i>out_bps_aggr</i>         | (Optional) output rate in bits/s                      |
| <i>out_byps_aggr</i>        | (Optional) output rate in bytes/s                     |
| <i>out_fps_aggr</i>         | (Optional) output rate in frames/s                    |
| <i>total_in_frames_aggr</i> | (Optional) total input frames                         |
| <i>total_in_bytes_aggr</i>  | (Optional) total input frames                         |



|                                |  |
|--------------------------------|--|
| <i>C2InFrames_aggr</i>         | (Optional) class-2 frames              |
| <i>C2InOctets_aggr</i>         | (Optional) class-2 frames in bytes     |
| <i>C3InFrames_aggr</i>         | (Optional) class-3 frames              |
| <i>C3InOctets_aggr</i>         | (Optional) class-3 frames in bytes     |
| <i>CfInFrames_aggr</i>         | (Optional) class-f frames              |
| <i>CfInOctets_aggr</i>         | (Optional) class-f frames in bytes     |
| <i>total_in_discards_aggr</i>  | (Optional) total in discards           |
| <i>total_in_errors_aggr</i>    | (Optional) total in errors             |
| <i>InvalidCrcs_aggr</i>        | (Optional) invalid CRC                 |
| <i>UnknownClassFrames_aggr</i> | (Optional) unknown class               |
| <i>FramesTooLong_aggr</i>      | (Optional) too long                    |
| <i>FramesTooShort_aggr</i>     | (Optional) too short                   |
| <i>total_out_frames_aggr</i>   | (Optional) total out frames            |
| <i>total_out_bytes_aggr</i>    | (Optional) total out frames in byte    |
| <i>C2OutFrames_aggr</i>        | (Optional) class-2 out frames          |
| <i>C2OutOctets_aggr</i>        | (Optional) class-2 out frames in bytes |
| <i>C3OutFrames_aggr</i>        | (Optional) class-3 out frames          |
| <i>C3OutOctets_aggr</i>        | (Optional) class-3 out frames in bytes |
| <i>CfOutFrames_aggr</i>        | (Optional) class-f out frames          |
| <i>CfOutOctets_aggr</i>        | (Optional) class-f out frames in bytes |
| <i>total_out_discards_aggr</i> | (Optional) total out discards          |
| <i>total_out_errors_aggr</i>   | (Optional) total out errors            |
| <i>OlsIns_aggr</i>             | (Optional) input OLS                   |
| <i>LRRIn_aggr</i>              | (Optional) input LRR                   |
| <i>NOSIn_aggr</i>              | (Optional) input NOS                   |
| <i>in_lip_aggr</i>             | (Optional) loop inits                  |
| <i>OlsOuts_aggr</i>            | (Optional) output OLS                  |
| <i>LRROut_aggr</i>             | (Optional) output LRR                  |
| <i>NOSOut_aggr</i>             | (Optional) output NOS                  |

|   |   |
|---|---|
| <i>out_lip_aggr</i>                     | (Optional) loop inits                     |
| <i>LinkFailures_aggr</i>                | (Optional) link failure                   |
| <i>SyncLosses_aggr</i>                  | (Optional) sync losses                    |
| <i>SigLosses_aggr</i>                   | (Optional) signal losses                  |
| <i>TxBBCreditTransistionToZero_aggr</i> | (Optional) B2B credit transitions to zero |
| <i>RxBBCreditTransistionToZero_aggr</i> | (Optional) B2B credit transitions to zero |
| <i>rx_b2b_perf_buff</i>                 | (Optional) rx B2B performance buff        |
| <i>rx_b2b_credit</i>                    | (Optional) rx B2B credit                  |
| <i>tx_b2b_credit</i>                    | (Optional) tx B2B credit                  |
| <i>tx_b2b_low_pri_cre</i>               | (Optional) tx B2B low price credit        |
| <i>InputRate_aggr_brief</i>             | (Optional) Input rate in MBps             |
| <i>TotalIpFrame_aggr_brief</i>          | (Optional) Total input frames             |
| <i>OutRate_aggr_brief</i>               | (Optional) Output rate in MBps            |
| <i>TotalOpFrame_aggr_brief</i>          | (Optional) Total output frames            |
| <i>line_aggr_brief</i>                  | (Optional) to print a line                |

**Command Mode**

- /exec

## show interface bbcredit

```
show interface <ifid_bbcrd> bbcredit [ __readonly__ TABLE_interface [ <interface_sfp> <state> [
<down_reason> ] [ <transmit_b2b> ] [ <receive_b2b> ] [ <rx_b2b_perf_buff> ] [ <rx_b2b_credit> ] [
<tx_b2b_credit> ] [ <tx_b2b_low_pri_cre> ] ] ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information                       |
| interface                 | Show interface status and information                 |
| <i>ifid_bbcrd</i>         | Enter interface type and number in module/slot format |
| bbcredit                  | Show BB_credit information for interface              |
| <i>__readonly__</i>       | (Optional) Read Only                                  |
| <i>interface_sfp</i>      | (Optional) Interface index                            |
| TABLE_interface           | (Optional) show interface                             |
| <i>state</i>              | (Optional) State                                      |
| <i>down_reason</i>        | (Optional) Reason for interface being down            |
| <i>transmit_b2b</i>       | (Optional) Transmit B2B                               |
| <i>receive_b2b</i>        | (Optional) Receive B2B                                |
| <i>rx_b2b_perf_buff</i>   | (Optional) RX B2B performance buffer                  |
| <i>rx_b2b_credit</i>      | (Optional) RX B2B credit remaining                    |
| <i>tx_b2b_credit</i>      | (Optional) TX B2B credit remaining                    |
| <i>tx_b2b_low_pri_cre</i> | (Optional) TX B2B low priority Credit                 |

### Command Mode

- /exec

## show interface brief

```
show interface <ifpch_brf> brief [ __readonly__ TABLE_interface <interface> [ <vlan> ] <type> <portmode>
<state> <state_rsn_desc> <speed> <ratemode> [ <proto> ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                       |
| interface             | Show interface status and information                 |
| <i>ifpch_brf</i>      | Enter interface type and number in module/slot format |
| brief                 | Show brief info of interface                          |
| <i>__readonly__</i>   | (Optional) Read Only                                  |
| <i>interface</i>      | (Optional) Interface index                            |
| TABLE_interface       | (Optional) show interface                             |
| <i>vlan</i>           | (Optional) Vlan                                       |
| <i>type</i>           | (Optional) Type                                       |
| <i>portmode</i>       | (Optional) Port mode                                  |
| <i>state</i>          | (Optional) Interface state                            |
| <i>state_rsn_desc</i> | (Optional) Interface state reason detailed            |
| <i>speed</i>          | (Optional) Speed                                      |
| <i>ratemode</i>       | (Optional) Interface port speed                       |
| <i>proto</i>          | (Optional) Port Channel Protocol                      |

### Command Mode

- /exec

## show interface brief

```

show interface <ifid_brf> brief [ __readonly__ { TABLE_interface <interface> [ <desc> ] [ <svi_if_index>
] [ <svi_admin_state> ] [ <oper_state> ] [ <svi_rsn_desc> ] [ <svi_line_proto> ] [ <svi_hw> ] [ <svi_mac> ]
[ <svi_desc> ] [ <svi_ip_addr> ] [ <svi_ip_mask> ] [ <svi_mtu> ] [ <svi_bw> ] [ <svi_delay> ] [ <vlan_id>
] [ <type> ] ] [ <svi_tx_load> ] [ <svi_rx_load> ] ] [ <svi_carrier_delay_sec> ] [ <svi_carrier_delay_msec>
] [ <svi_arp_type> ] [ <svi_arp_timeout> ] ] [ <svi_time_last_cleared> ] ] [ { TABLE_secondary_vlan
<sec_vlan> <sec_vlan_type> } ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ]
[ <eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits>
] [ <eth_inrate1_summary_pkts> ] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [
<eth_load_interval2_rx> ] [ <eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [
<eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts>
] [ <eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_pkts> ] [ <eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes>
] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [
<eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [
<eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [ <eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [
<eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [ <eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes>
] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [ <eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [
<eth_l3avg2_inbytes> ] [ <eth_l3avg2_inpkts> ] [ <eth_l3avg2_outbytes> ] [ <eth_l3avg2_outpkts> ] [
<eth_l3avg3_inbytes> ] [ <eth_l3avg3_inpkts> ] [ <eth_l3avg3_outbytes> ] [ <eth_l3avg3_outpkts> ] [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_nobuf> ] [ <eth_inbcast> ] [ <eth_inmcast> ] [ <eth_inucast> ] [
<eth_ingiants> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [ <eth_insw_switched> ] [ <eth_runts> ] [
<eth_storm_supp> ] [ <eth_throtles> ] [ <eth_inerr> ] [ <eth_crc> ] [ <eth_ecc> ] [ <eth_frame> ] [
<eth_overrun> ] [ <eth_ignored> ] [ <eth_watchdog> ] [ <eth_outbcast> ] [ <eth_outmcast> ] [ <eth_outucast>
] [ <eth_outgiants> ] [ <eth_inpause> ] [ <eth_dribble> ] [ <eth_in_ifdown_drops> ] [ <eth_bad_eth> ] [
<eth_bad_proto> ] [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_underrun> ] [ <eth_outhw_switched> ] [
<eth_outsw_switched> ] [ <eth_outerr> ] [ <eth_coll> ] [ <eth_resets> ] [ <eth_babbles> ] [ <eth_latecoll> ]
[ <eth_deferred> ] [ <eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_outpause> ] [ <eth_buffail> ] [
<eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] [ <eth_single_coll> ] [ <eth_multi_coll>
] [ <eth_excess_coll> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [
<eth_outcrc> ] [ <eth_symbol> ] [ <eth_out_drops> ] [ <eth_sqetest> ] [ <eth_inb64> ] [ <eth_inb65_127>
] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [ <eth_inb1024_1518> ] [
<eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outb64> ] [ <eth_outb65_127> ] [ <eth_outb128_255> ] [
<eth_outb256_511> ] [ <eth_outb512_1023> ] [ <eth_outb1024_1518> ] [ <eth_outb1519_1548> ] [
<eth_outtrunk> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [ <eth_cos2_outlost>
] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost> ] [
<eth_cos7_outlost> ] [ <eth_fcoe_in_pkts> ] [ <eth_fcoe_in_octets> ] [ <eth_fcoe_out_pkts> ] [
<eth_fcoe_out_octets> ] [ <eth_nfcoe_in_pkts> ] [ <eth_nfcoe_in_octets> ] [ <eth_nfcoe_out_pkts> ] [
<eth_nfcoe_out_octets> ] [ <eth_eee_atx_lpi_msec> ] [ <eth_eee_arcv_lpi_msec> ] [
<eth_eee_atx_lpi_transitions> ] [ <eth_eee_arcv_lpi_transitions> ] [ <eth_phy_ber_count> ] [
<eth_phy_errblks_count> ] ] [ <svi_routed_pkts_in> ] [ <svi_routed_bytes_in> ] [ <svi_routed_pkts_out>
] [ <svi_routed_bytes_out> ] [ <svi_ucast_pkts_in> ] [ <svi_ucast_bytes_in> ] [ <svi_mcast_pkts_in> ] [
<svi_mcast_bytes_in> ] [ <svi_ucast_pkts_out> ] [ <svi_ucast_bytes_out> ] [ <svi_mcast_pkts_out> ] [
<svi_mcast_bytes_out> ] [ <svi_ipv4_ucast_pkts_in> ] [ <svi_ipv4_ucast_bytes_in> ] [
<svi_ipv4_ucast_pkts_out> ] [ <svi_ipv4_ucast_bytes_out> ] [ <svi_ipv4_mcast_pkts_in> ] [
<svi_ipv4_mcast_bytes_in> ] [ <svi_ipv4_mcast_pkts_out> ] [ <svi_ipv4_mcast_bytes_out> ] ] ]

```

```
<svi_ipv6_ucast_pkts_in> ][ <svi_ipv6_ucast_bytes_in> ][ <svi_ipv6_ucast_pkts_out> ][
<svi_ipv6_ucast_bytes_out> ][ <svi_ipv6_mcast_pkts_in> ][ <svi_ipv6_mcast_bytes_in> ][
<svi_ipv6_mcast_pkts_out> ][ <svi_ipv6_mcast_bytes_out> ][ <svi_average_input_bits> ][
<svi_average_input_packets> ][ <svi_average_output_bits> ][ <svi_average_output_packets> ][
<svi_rate_in_mins> ]][ [ <svi_reliability> ] ][ <switchport> ] } }
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information                       |
| interface              | Show interface status and information                 |
| <i>ifid_brf</i>        | Enter interface type and number in module/slot format |
| brief                  | Show brief info of interface                          |
| <u>__readonly__</u>    | (Optional) Read Only                                  |
| TABLE_interface        | (Optional) show interface                             |
| <i>interface</i>       | (Optional) Interface index                            |
| <i>desc</i>            | (Optional) Interface description                      |
| <i>svi_if_index</i>    | (Optional) Interface                                  |
| <i>svi_admin_state</i> | (Optional)  |
| <i>oper_state</i>      | (Optional)  |
| <i>svi_rsn_desc</i>    | (Optional) Interface state reason detailed            |
| <i>svi_line_proto</i>  | (Optional)  |
| <i>svi_hw</i>          | (Optional) Hardware                                   |
| <i>svi_mac</i>         | (Optional) Address                                    |
| <i>svi_desc</i>        | (Optional) Interface Description                      |
| <i>svi_ip_addr</i>     | (Optional) IP Address                                 |
| <i>svi_ip_mask</i>     | (Optional) IP address mask                            |
| <i>svi_mtu</i>         | (Optional) MTU size in bytes                          |
| <i>svi_bw</i>          | (Optional) Bandwidth in kilobits                      |
| <i>svi_delay</i>       | (Optional) Throughput delay (tens of microseconds)    |
| <i>vlan_id</i>         | (Optional) Vlan                                       |
| <i>type</i>            | (Optional) type                                       |
| <i>svi_tx_load</i>     | (Optional) Tx Load                                    |
| <i>svi_rx_load</i>     | (Optional) Rx Load                                    |

|                                  |   |
|----------------------------------|---|
| <i>svi_carrier_delay_sec</i>     | (Optional) carrier delay value in seconds       |
| <i>svi_carrier_delay_msec</i>    | (Optional) carrier delay value in milli-seconds |
| <i>svi_arp_type</i>              | (Optional) ARP type                             |
| <i>svi_arp_timeout</i>           | (Optional) ARP timeout value                    |
| <i>svi_time_last_cleared</i>     | (Optional) Time last cleared                    |
| TABLE_secondary_vlan             | (Optional) Secondary vlan                       |
| <i>sec_vlan</i>                  | (Optional) Secondary vlan ID                    |
| <i>sec_vlan_type</i>             | (Optional) Secondary vlan type                  |
| <i>eth_load_interval1_rx</i>     | (Optional) interval 1 timer value in sec        |
| <i>eth_inrate1_bits</i>          | (Optional) interval 1 input rate bits/sec       |
| <i>eth_inrate1_pkts</i>          | (Optional) interval 1 input rate pkts/sec       |
| <i>eth_load_interval1_tx</i>     | (Optional) interval 1 timer value in sec        |
| <i>eth_outrate1_bits</i>         | (Optional) interval 1 output rate bits/sec      |
| <i>eth_outrate1_pkts</i>         | (Optional) interval 1 output rate pkts/sec      |
| <i>eth_inrate1_summary_bits</i>  | (Optional) interval 1 input rate bit summary    |
| <i>eth_inrate1_summary_pkts</i>  | (Optional) interval 1 input rate pkt summary    |
| <i>eth_outrate1_summary_bits</i> | (Optional) interval 1 output rate bit summary   |
| <i>eth_outrate1_summary_pkts</i> | (Optional) interval 1 output rate pkt summary   |
| <i>eth_load_interval2_rx</i>     | (Optional) interval 2 timer value in sec        |
| <i>eth_inrate2_bits</i>          | (Optional) interval 2 input rate bits/sec       |
| <i>eth_inrate2_pkts</i>          | (Optional) interval 2 input rate pkts/sec       |
| <i>eth_load_interval2_tx</i>     | (Optional) interval 2 timer value in sec        |
| <i>eth_outrate2_bits</i>         | (Optional) interval 2 output rate bits/sec      |
| <i>eth_outrate2_pkts</i>         | (Optional) interval 2 output rate pkts/sec      |
| <i>eth_inrate2_summary_bits</i>  | (Optional) interval 2 input rate bit summary    |
| <i>eth_inrate2_summary_pkts</i>  | (Optional) interval 2 input rate pkt summary    |
| <i>eth_outrate2_summary_bits</i> | (Optional) interval 2 output rate bit summary   |
| <i>eth_outrate2_summary_pkts</i> | (Optional) interval 2 output rate pkt summary   |
| <i>eth_load_interval3_rx</i>     | (Optional) interval 3 timer value in sec        |

|                                  |   |
|----------------------------------|---|
| <i>eth_inrate3_bits</i>          | (Optional) interval 3 input rate bits/sec     |
| <i>eth_inrate3_pkts</i>          | (Optional) interval 3 input rate pkts/sec     |
| <i>eth_load_interval3_tx</i>     | (Optional) interval 3 timer value in sec      |
| <i>eth_outrate3_bits</i>         | (Optional) interval 3 output rate bits/sec    |
| <i>eth_outrate3_pkts</i>         | (Optional) interval 3 output rate pkts/sec    |
| <i>eth_inrate3_summary_bits</i>  | (Optional) interval 3 input rate bit summary  |
| <i>eth_inrate3_summary_pkts</i>  | (Optional) interval 3 input rate pkt summary  |
| <i>eth_outrate3_summary_bits</i> | (Optional) interval 3 output rate bit summary |
| <i>eth_outrate3_summary_pkts</i> | (Optional) interval 3 output rate pkt summary |
| <i>eth_l2_ucastpkts</i>          | (Optional) L2 switched ucast pkts             |
| <i>eth_l2_ucastbytes</i>         | (Optional) L2 switched ucast bytes            |
| <i>eth_l2_mcastpkts</i>          | (Optional) L2 switched mcast pkts             |
| <i>eth_l2_mcastbytes</i>         | (Optional) L2 switched mcast bytes            |
| <i>eth_l2_bcastpkts</i>          | (Optional) L2 switched bcast pkts             |
| <i>eth_l2_bcastbytes</i>         | (Optional) L2 switched bcast bytes            |
| <i>eth_l3in_ucastpkts</i>        | (Optional) IPv4 L3 in switched ucast pkts     |
| <i>eth_l3in_ucastbytes</i>       | (Optional) IPv4 L3 in switched ucast bytes    |
| <i>eth_l3in_mcastpkts</i>        | (Optional) IPv4 L3 in switched mcast pkts     |
| <i>eth_l3in_mcastbytes</i>       | (Optional) IPv4 L3 in switched mcast bytes    |
| <i>eth_l3in_bcastpkts</i>        | (Optional) L3 in switched bcast pkts          |
| <i>eth_l3in_bcastbytes</i>       | (Optional) L3 in switched bcast bytes         |
| <i>eth_l3out_ucastpkts</i>       | (Optional) IPv4 L3 out switched ucast pkts    |
| <i>eth_l3out_ucastbytes</i>      | (Optional) IPv4 L3 out switched ucast bytes   |
| <i>eth_l3out_mcastpkts</i>       | (Optional) IPv4 L3 out switched mcast pkts    |
| <i>eth_l3out_mcastbytes</i>      | (Optional) IPv4 L3 out switched mcast bytes   |
| <i>eth_l3out_bcastpkts</i>       | (Optional) L3 out switched bcast pkts         |
| <i>eth_l3out_bcastbytes</i>      | (Optional) L3 out switched bcast bytes        |
| <i>eth_l3in_routed_pkts</i>      | (Optional) L3 in routed pkts                  |
| <i>eth_l3in_routed_bytes</i>     | (Optional) L3 in routed bytes                 |



|                               |  |
|-------------------------------|--|
| <i>eth_l3out_routed_pkts</i>  | (Optional) L3 out routed pkts                            |
| <i>eth_l3out_routed_bytes</i> | (Optional) L3 out routed bytes                           |
| <i>eth_l3avg1_inbytes</i>     | (Optional) Load interval 1 L3 average in switched bytes  |
| <i>eth_l3avg1_inpkts</i>      | (Optional) Load interval 1 L3 average in switched pkts   |
| <i>eth_l3avg1_outbytes</i>    | (Optional) Load interval 1 L3 average out switched bytes |
| <i>eth_l3avg1_outpkts</i>     | (Optional) Load interval 1 L3 average out switched pkts  |
| <i>eth_l3avg2_inbytes</i>     | (Optional) Load interval 2 L3 average in switched bytes  |
| <i>eth_l3avg2_inpkts</i>      | (Optional) Load interval 2 L3 average in switched pkts   |
| <i>eth_l3avg2_outbytes</i>    | (Optional) Load interval 2 L3 average out switched bytes |
| <i>eth_l3avg2_outpkts</i>     | (Optional) Load interval 2 L3 average out switched pkts  |
| <i>eth_l3avg3_inbytes</i>     | (Optional) Load interval 3 L3 average in switched bytes  |
| <i>eth_l3avg3_inpkts</i>      | (Optional) Load interval 3 L3 average in switched pkts   |
| <i>eth_l3avg3_outbytes</i>    | (Optional) Load interval 3 L3 average out switched bytes |
| <i>eth_l3avg3_outpkts</i>     | (Optional) Load interval 3 L3 average out switched pkts  |
| <i>eth_inpkts</i>             | (Optional) Packets input                                 |
| <i>eth_inbytes</i>            | (Optional) Bytes input                                   |
| <i>eth_nobuf</i>              | (Optional) No buffer received                            |
| <i>eth_inbcast</i>            | (Optional) Broadcasts                                    |
| <i>eth_inmcast</i>            | (Optional) Multicasts                                    |
| <i>eth_inucast</i>            | (Optional) Unicasts                                      |
| <i>eth_ingiants</i>           | (Optional) giants  |
| <i>eth_ipmcast</i>            | (Optional) IP multicast                                  |
| <i>eth_inhw_switched</i>      | (Optional) Input H/W Switched                            |
| <i>eth_insw_switched</i>      | (Optional) Input S/W Switched                            |
| <i>eth_runts</i>              | (Optional) runts   |
| <i>eth_storm_supp</i>         | (Optional) storm suppression                             |
| <i>eth_throtles</i>           | (Optional) throttles                                     |
| <i>eth_inerr</i>              | (Optional) input errors                                  |
| <i>eth_crc</i>                | (Optional) CRC   |

|                            |   |
|----------------------------|---|
| <i>eth_ecc</i>             | (Optional) ECC                                  |
| <i>eth_frame</i>           | (Optional) frame                                |
| <i>eth_overrun</i>         | (Optional) overrun                              |
| <i>eth_ignored</i>         | (Optional) ignored                              |
| <i>eth_watchdog</i>        | (Optional) watchdog                             |
| <i>eth_outbcast</i>        | (Optional) Broadcasts                           |
| <i>eth_outmcast</i>        | (Optional) Multicasts                           |
| <i>eth_outucast</i>        | (Optional) Unicasts                             |
| <i>eth_outgiants</i>       | (Optional) giants                               |
| <i>eth_inpause</i>         | (Optional) pause input                          |
| <i>eth_dribble</i>         | (Optional) input packets with dribble condition |
| <i>eth_in_ifdown_drops</i> | (Optional) Input if-down drops                  |
| <i>eth_bad_eth</i>         | (Optional) bad ether type drop                  |
| <i>eth_bad_proto</i>       | (Optional) bad protocol drops                   |
| <i>eth_outpkts</i>         | (Optional) packets output                       |
| <i>eth_outbytes</i>        | (Optional) bytes output                         |
| <i>eth_underrun</i>        | (Optional) underruns                            |
| <i>eth_outhw_switched</i>  | (Optional) Out H/W Switched                     |
| <i>eth_outsw_switched</i>  | (Optional) Out S/W Switched                     |
| <i>eth_outerr</i>          | (Optional) output errors                        |
| <i>eth_coll</i>            | (Optional) collisions                           |
| <i>eth_resets</i>          | (Optional) interface resets                     |
| <i>eth_babbles</i>         | (Optional) babbles                              |
| <i>eth_latecoll</i>        | (Optional) late collision                       |
| <i>eth_deferred</i>        | (Optional) deferred                             |
| <i>eth_lostcarrier</i>     | (Optional) lost carrier                         |
| <i>eth_nocarrier</i>       | (Optional) no carrier                           |
| <i>eth_outpause</i>        | (Optional) PAUSE output                         |
| <i>eth_buffail</i>         | (Optional) output buffer failures               |

|                             |  |
|-----------------------------|--|
| <i>eth_bufswapped</i>       | (Optional) output buffers swapped out              |
| <i>eth_arpdrops</i>         | (Optional) arp drops                               |
| <i>eth_out_ifdown_drops</i> | (Optional) Output if-down drops                    |
| <i>eth_single_coll</i>      | (Optional) single collisions                       |
| <i>eth_multi_coll</i>       | (Optional) multi collisions                        |
| <i>eth_excess_coll</i>      | (Optional) excessive collisions                    |
| <i>eth_jabbers</i>          | (Optional) jabbers                                 |
| <i>eth_shortframe</i>       | (Optional) short frames                            |
| <i>eth_indiscard</i>        | (Optional) discards                                |
| <i>eth_bad_encap</i>        | (Optional) bad encapsulation                       |
| <i>eth_outcrc</i>           | (Optional) Output CRC                              |
| <i>eth_symbol</i>           | (Optional) symbol errors                           |
| <i>eth_out_drops</i>        | (Optional) output drops                            |
| <i>eth_sqetest</i>          | (Optional) SQE test                                |
| <i>eth_inb64</i>            | (Optional) input pkts between 0 and 64 bytes       |
| <i>eth_inb65_127</i>        | (Optional) input pkts between 65 and 127 bytes     |
| <i>eth_inb128_255</i>       | (Optional) input pkts between 128 and 255 bytes    |
| <i>eth_inb256_511</i>       | (Optional) input pkts between 256 and 511 bytes    |
| <i>eth_inb512_1023</i>      | (Optional) input pkts between 512 and 1023 bytes   |
| <i>eth_inb1024_1518</i>     | (Optional) input pkts between 1024 and 1518 bytes  |
| <i>eth_inb1519_1548</i>     | (Optional) input pkts between 1519 and 1548 bytes  |
| <i>eth_intrunk</i>          | (Optional) input trunk pkts                        |
| <i>eth_outb64</i>           | (Optional) output pkts between 0 and 64 bytes      |
| <i>eth_outb65_127</i>       | (Optional) output pkts between 65 and 127 bytes    |
| <i>eth_outb128_255</i>      | (Optional) output pkts between 128 and 255 bytes   |
| <i>eth_outb256_511</i>      | (Optional) output pkts between 256 and 511 bytes   |
| <i>eth_outb512_1023</i>     | (Optional) output pkts between 512 and 1023 bytes  |
| <i>eth_outb1024_1518</i>    | (Optional) output pkts between 1024 and 1518 bytes |
| <i>eth_outb1519_1548</i>    | (Optional) output pkts between 1519 and 1548 bytes |

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| <i>eth_outtrunk</i>                 | (Optional) output trunk pkts      |
| <i>eth_bpdu_outlost</i>             | (Optional) BPDU output lost       |
| <i>eth_cos0_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos1_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos2_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos3_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos4_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos5_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos6_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos7_outlost</i>             | (Optional) output pkts            |
| <i>eth_fcoe_in_pkts</i>             | (Optional) fcoe in pkts           |
| <i>eth_fcoe_in_octets</i>           | (Optional) fcoe in octets         |
| <i>eth_fcoe_out_pkts</i>            | (Optional) fcoe out pkts          |
| <i>eth_fcoe_out_octets</i>          | (Optional) fcoe out octets        |
| <i>eth_nfcoe_in_pkts</i>            | (Optional) nfcoe in pkts          |
| <i>eth_nfcoe_in_octets</i>          | (Optional) nfcoe in octets        |
| <i>eth_nfcoe_out_pkts</i>           | (Optional) nfcoe out pkts         |
| <i>eth_nfcoe_out_octets</i>         | (Optional) nfcoe out octets       |
| <i>eth_eee_atx_lpi_msec</i>         | (Optional) Tx Lpi usec            |
| <i>eth_eee_arcv_lpi_msec</i>        | (Optional) Rx Lpi usec            |
| <i>eth_eee_atx_lpi_transitions</i>  | (Optional) Tx Lpi requests        |
| <i>eth_eee_arcv_lpi_transitions</i> | (Optional) Rx Lpi indications     |
| <i>eth_phy_ber_count</i>            | (Optional) Bit error rate counter |
| <i>eth_phy_errblks_count</i>        | (Optional) Errored blocks counter |
| <i>svi_reliability</i>              | (Optional) Reliability            |
| <i>switchport</i>                   | (Optional) Switchport enabled     |

**Command Mode**

- /exec

## show interface brief

```
show interface brief [ controller | cli ] [ __readonly__ { TABLE_interface [ <interface> ] [ <vlan> ] [ <type> ] [ <portmode> ] [ <state> ] [ <state_rsn> ] [ <state_rsn_desc> ] [ <desc> ] [ <vrf> ] [ <ipv6_addr> ] [ <ip_addr> ] [ <speed> ] [ <mtu> ] [ <ratemode> ] [ <portchan> ] [ <proto> ] [ <interface_vfc> ] [ <vsan_brief> ] [ <admin_mode> ] [ <admin_trunk_mode> ] [ <status> ] [ <fcot_info> ] [ <bind_info> ] [ <bind_type> ] [ <bind_mac> ] [ <port_rate_mode> ] [ <oper_speed> ] [ <port_channel> ] [ <ip_addr1> ] [ { TABLE_secondary_vlan <sec_vlan> <sec_vlan_type> } ] [ <svi_admin_state> ] [ <svi_rsn_desc> } ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information            |
| interface             | Show interface status and information      |
| brief                 | Show brief info of interface               |
| controller            | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED  |
| cli                   | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED  |
| <i>__readonly__</i>   | (Optional) Read Only                       |
| <i>interface</i>      | (Optional) Interface index                 |
| TABLE_interface       | (Optional) show interface                  |
| <i>state</i>          | (Optional) Interface state                 |
| <i>state_rsn</i>      | (Optional) Interface state reason          |
| <i>state_rsn_desc</i> | (Optional) Interface state reason detailed |
| <i>desc</i>           | (Optional) Interface description           |
| <i>vrf</i>            | (Optional) Vrf membership                  |
| <i>ip_addr</i>        | (Optional) IP address                      |
| <i>mtu</i>            | (Optional) MTU                             |
| <i>speed</i>          | (Optional) Speed                           |
| <i>vlan</i>           | (Optional) Vlan                            |
| <i>type</i>           | (Optional) Type                            |
| <i>portmode</i>       | (Optional) Port mode                       |
| <i>ratemode</i>       | (Optional) Interface port speed            |
| <i>portchan</i>       | (Optional) Port Channel Membership         |
| <i>proto</i>          | (Optional) Port Channel Protocol           |

|                         |  |
|-------------------------|--|
| <i>interface_vfc</i>    | (Optional) Interface index                 |
| <i>vsan_brief</i>       | (Optional) vsan brief                      |
| <i>admin_mode</i>       | (Optional) admin mode                      |
| <i>admin_trunk_mode</i> | (Optional) admin trunk mode                |
| <i>status</i>           | (Optional) status                          |
| <i>fcot_info</i>        | (Optional) fcot info                       |
| <i>bind_info</i>        | (Optional) bind interface                  |
| <i>bind_type</i>        | (Optional) bind type                       |
| <i>bind_mac</i>         | (Optional) bind mac address                |
| <i>port_rate_mode</i>   | (Optional) rate mode                       |
| <i>oper_speed</i>       | (Optional) speed                           |
| <i>port_channel</i>     | (Optional) port channel number             |
| <i>ip_addr1</i>         | (Optional) IP address                      |
| TABLE_secondary_vlan    | (Optional) Secondary vlan                  |
| <i>sec_vlan</i>         | (Optional) Secondary vlan ID               |
| <i>sec_vlan_type</i>    | (Optional) Secondary vlan type             |
| <i>svi_admin_state</i>  | (Optional) svi admin state                 |
| <i>svi_rsn_desc</i>     | (Optional) Interface state reason detailed |

### Command Mode

- /exec

# show interface brief

```
show interface <ifloop_brf> brief [ __readonly__ TABLE_interface <interface> <state> [ <desc> ] ]
```

## Syntax Description

|                   |   |
|-------------------|---|
| show              | Show running system information                       |
| interface         | Show interface status and information                 |
| <i>ifloop_brf</i> | Enter interface type and number in module/slot format |
| brief             | Show brief info of interface                          |
| __readonly__      | (Optional) Read Only                                  |
| <i>interface</i>  | (Optional) Interface index                            |
| TABLE_interface   | (Optional) show interface                             |
| <i>state</i>      | (Optional) Interface state                            |
| <i>desc</i>       | (Optional) Interface description                      |

## Command Mode

- /exec

## show interface brief

```
show interface <iftunnel_brf> brief [ __readonly__ TABLE_interface <interface> <state> <admin-state> {
<tunnel-ipv4> | <tunnel-ipv6> } <mtu> <bandwidth> <encap-type> <keepalive-period> <keepalive-retries>
{ <src-ipv4> | <src-ipv6> } <src-intf> { <dest-ipv4> | <dest-ipv6> } <dest-hostname> <vrf_name>
<tunnel_vrf_name> <wccp_header> <ttl_val> <tunnel_pmtud_age_time> <tunnel_pmtud_min_mtu>
<tunnel_pmtud> <tunnel_pgm_mtu> <tunnel_rx_pkt_count> <tunnel_rx_byte_count> <tunnel_rx_rate>
<tunnel_tx_pkt_count> <tunnel_tx_byte_count> <tunnel_tx_rate> <tunnel_clear_counter> ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information                       |
| interface                | Show interface status and information                 |
| <i>iftunnel_brf</i>      | Enter interface type and number in module/slot format |
| brief                    | Show brief info of interface                          |
| <i>__readonly__</i>      | (Optional) Read Only                                  |
| <i>interface</i>         | (Optional) Interface index                            |
| TABLE_interface          | (Optional) show interface                             |
| <i>state</i>             | (Optional) Interface state                            |
| <i>admin-state</i>       | (Optional)  |
| <i>tunnel-ipv4</i>       | (Optional) interface IPv4 address                     |
| <i>mtu</i>               | (Optional) interface Maximum Transmission Unit        |
| <i>bandwidth</i>         | (Optional) interface Bandwidth in kilobits            |
| <i>encap-type</i>        | (Optional)  |
| <i>keepalive-period</i>  | (Optional) keealive period                            |
| <i>keepalive-retries</i> | (Optional) number of retries                          |
| <i>src-ipv4</i>          | (Optional) tunnel source IPv4 address                 |
| <i>src-intf</i>          | (Optional) tunnel source interface                    |
| <i>dest-ipv4</i>         | (Optional) tunnel destination IPv4 address            |
| <i>dest-hostname</i>     | (Optional) tunnel destination hostname                |
| <i>vrf_name</i>          | (Optional) transport VRF name                         |
| <i>tunnel_vrf_name</i>   | (Optional) tunnel VRF name                            |
| <i>wccp_header</i>       | (Optional) wccp header                                |



|                              |   |
|------------------------------|---|
| <i>ttn_val</i>               | (Optional) tunnel time to live value                |
| <i>tunnel_pmtud_age_time</i> | (Optional) tunnel path MTU discovery age time       |
| <i>tunnel_pmtud_min_mtu</i>  | (Optional) tunnel path MTU discovery min mtu        |
| <i>tunnel_pmtud</i>          | (Optional) tunnel path MTU discovered               |
| <i>tunnel_pgm_mtu</i>        | (Optional) tunnel actual programmed MTU             |
| <i>tunnel_rx_pkt_count</i>   | (Optional) total number of packets received         |
| <i>tunnel_rx_byte_count</i>  | (Optional) total number of bytes received           |
| <i>tunnel_rx_rate</i>        | (Optional) packets input rate per 5 minutes         |
| <i>tunnel_tx_pkt_count</i>   | (Optional) total number of packets transmitted      |
| <i>tunnel_tx_byte_count</i>  | (Optional) total number of bytes transmitted        |
| <i>tunnel_tx_rate</i>        | (Optional) packets transmitted per 5 minutes        |
| <i>tunnel_clear_counter</i>  | (Optional) Last clearing of show interface counters |

#### Command Mode

- /exec

## show interface brief

```
show interface <ifmgmt_brf> brief [ __readonly__ TABLE_interface <interface> [ <vrf> ] <state> [
<ipv6_addr> ] [ <ip_addr> ] <mtu> <speed> [ <duplex> ] ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                       |
| interface           | Show interface status and information                 |
| <i>ifmgmt_brf</i>   | Enter interface type and number in module/slot format |
| brief               | Show brief info of interface                          |
| <i>__readonly__</i> | (Optional) Read Only                                  |
| <i>interface</i>    | (Optional) Interface index                            |
| TABLE_interface     | (Optional) show interface                             |
| <i>vrf</i>          | (Optional) Vrf membership                             |
| <i>state</i>        | (Optional) Interface state                            |
| <i>ip_addr</i>      | (Optional) IP address                                 |
| <i>mtu</i>          | (Optional) MTU  |
| <i>speed</i>        | (Optional) Speed                                      |
| <i>duplex</i>       | (Optional) Duplex                                     |

### Command Mode

- /exec

# show interface brief

```
show interface <ifeth_brf> brief [ __readonly__ TABLE_interface <interface> [ <vlan> ] <type> <portmode>
<state> <state_rsn_desc> <speed> <ratemode> [ <portchan> ] ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                       |
| interface             | Show interface status and information                 |
| <i>ifeth_brf</i>      | Enter interface type and number in module/slot format |
| brief                 | Show brief info of interface                          |
| <i>__readonly__</i>   | (Optional) Read Only                                  |
| <i>interface</i>      | (Optional) Interface index                            |
| TABLE_interface       | (Optional) show interface                             |
| <i>vlan</i>           | (Optional) Vlan                                       |
| <i>type</i>           | (Optional) Type                                       |
| <i>portmode</i>       | (Optional) Port mode                                  |
| <i>state</i>          | (Optional) Interface state                            |
| <i>state_rsn_desc</i> | (Optional) Interface state reason detailed            |
| <i>speed</i>          | (Optional) Speed                                      |
| <i>ratemode</i>       | (Optional) Interface port speed                       |
| <i>portchan</i>       | (Optional) Port Channel Membership                    |

## Command Mode

- /exec

## show interface brief

```
show interface <ifrange> brief [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn> ] [
<state_rsn_desc> ] [ <overlay_mtu> ] [ <overlay_bandwidth> ] [ <overlay_vrf> ] [ <overlay_src_addr> ] [
<overlay_dst_addr> ] ]
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information            |
| interface                | Show interface status and information      |
| <i>ifrange</i>           | Enter interface type and number            |
| brief                    | Show brief info of interface               |
| <i>__readonly__</i>      | (Optional) Read Only                       |
| <i>interface</i>         | (Optional) Interface index                 |
| TABLE_interface          | (Optional) show interface                  |
| <i>state</i>             | (Optional) Interface state                 |
| <i>state_rsn</i>         | (Optional) Interface state reason          |
| <i>state_rsn_desc</i>    | (Optional) Interface state reason detailed |
| <i>overlay_mtu</i>       | (Optional) MTU                             |
| <i>overlay_bandwidth</i> | (Optional) Bandwidth                       |
| <i>overlay_vrf</i>       | (Optional) VRF                             |
| <i>overlay_src_addr</i>  | (Optional) Source address                  |
| <i>overlay_dst_addr</i>  | (Optional) Destination address             |

### Command Mode

- /exec

## show interface brief

```
show interface <ifrange> brief [ __readonly__ TABLE_interface <interface> <state> [ <state_rsn> ] [
<state_rsn_desc> ] [ <admin_state> ] [ <nve_addr> ] [ <nve_vcid> ] [ <nve_mtu> ] [ <nve_bandwidth> ] [
<nve_vrf> ] [ <nve_src_addr> ] [ <nve_dst_addr> ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information            |
| interface             | Show interface status and information      |
| <i>ifrange</i>        | Enter interface type and number            |
| brief                 | Show brief info of interface               |
| <i>__readonly__</i>   | (Optional) Read Only                       |
| <i>interface</i>      | (Optional) Interface index                 |
| TABLE_interface       | (Optional) show interface                  |
| <i>state</i>          | (Optional) Interface state                 |
| <i>state_rsn</i>      | (Optional) Interface state reason          |
| <i>state_rsn_desc</i> | (Optional) Interface state reason detailed |
| <i>admin_state</i>    | (Optional) admin state                     |
| <i>nve_addr</i>       | (Optional) Peer address                    |
| <i>nve_vcid</i>       | (Optional) VCID                            |
| <i>nve_mtu</i>        | (Optional) MTU                             |
| <i>nve_bandwidth</i>  | (Optional) Bandwidth                       |
| <i>nve_vrf</i>        | (Optional) VRF                             |
| <i>nve_src_addr</i>   | (Optional) Source address                  |
| <i>nve_dst_addr</i>   | (Optional) Destination address             |

### Command Mode

- /exec

## show interface cable-diagnostics-tdr

```
show interface <ifid_tdr> cable-diagnostics-tdr [ __readonly__ TABLE_interface <interface> <speed>
<distance1> <pair1_status> <distance2> <pair2_status> <distance3> <pair3_status> <distance4> <pair4_status>
]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                       |
| interface             | Show interface status and information                 |
| <i>ifid_tdr</i>       | Enter interface type and number in module/slot format |
| cable-diagnostics-tdr | Show interface tdr test information                   |
| <i>__readonly__</i>   | (Optional) Read Only                                  |
| <i>interface</i>      | (Optional) Interface index                            |
| TABLE_interface       | (Optional) show interface                             |
| <i>speed</i>          | (Optional) Speed                                      |
| <i>distance1</i>      | (Optional) Distance to fault for pair 1               |
| <i>distance2</i>      | (Optional) Distance to fault for pair 2               |
| <i>distance3</i>      | (Optional) Distance to fault for pair 3               |
| <i>distance4</i>      | (Optional) Distance to fault for pair 4               |
| <i>pair1_status</i>   | (Optional) Pair1 status                               |
| <i>pair2_status</i>   | (Optional) Pair2 status                               |
| <i>pair3_status</i>   | (Optional) Pair3 status                               |
| <i>pair4_status</i>   | (Optional) Pair4 status                               |

### Command Mode

- /exec

## show interface capabilities

```
show interface <ifid_eth_cap> capabilities [ __readonly__ TABLE_interface <interface> <model> <type>
<speed> <duplex> <trunk_encap> [ <dce_capable> ] <channel> <bcast_supp> <flo_ctrl> <rate_mode>
<port_mode> [ <fast_start> ] <qos_scheduling> <cos_rewrite> <tos_rewrite> [ <inline_power> ] <span>
<udld> [ <mdix> ] [ <tdr> ] <lnk_debounce> <lnk_debounce_time> <fex_fabric> <dot1q_tunnel> [
<pvlan_trunk_mode> ] [ <port_group> ] [ <port_group_members> ] <eee_capable> <pfc_capable> [
<speed_group_capable> ] <buffer_boost_capable> [ <bkout_capable> ] [ <macsec_capable> ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                       |
| interface             | Show interface status and information                 |
| <i>ifid_eth_cap</i>   | Enter interface type and number in module/slot format |
| capabilities          | Show interface capabilities information               |
| <i>__readonly__</i>   | (Optional) Read Only                                  |
| <i>interface</i>      | (Optional) Interface index                            |
| TABLE_interface       | (Optional) show interface                             |
| <i>model</i>          | (Optional) Model                                      |
| <i>type</i>           | (Optional) Type                                       |
| <i>speed</i>          | (Optional) Speed                                      |
| <i>duplex</i>         | (Optional) Duplex                                     |
| <i>trunk_encap</i>    | (Optional) Trunk encap. type                          |
| <i>dce_capable</i>    | (Optional) DCE mode capable                           |
| <i>channel</i>        | (Optional) Channel                                    |
| <i>bcast_supp</i>     | (Optional) Broadcast suppression                      |
| <i>flo_ctrl</i>       | (Optional) Flowcontrol                                |
| <i>rate_mode</i>      | (Optional) Rate mode                                  |
| <i>port_mode</i>      | (Optional) Port mode                                  |
| <i>fast_start</i>     | (Optional) Fast start                                 |
| <i>qos_scheduling</i> | (Optional) QOS scheduling                             |
| <i>cos_rewrite</i>    | (Optional) CoS rewrite                                |
| <i>tos_rewrite</i>    | (Optional) ToS rewrite                                |

|                             |                                    |
|-----------------------------|------------------------------------|
| <i>inline_power</i>         | (Optional) Inline power            |
| <i>span</i>                 | (Optional) SPAN                    |
| <i>udld</i>                 | (Optional) UDLD                    |
| <i>mdix</i>                 | (Optional) MDIX                    |
| <i>tdr</i>                  | (Optional) TDR                     |
| <i>lnk_debounce</i>         | (Optional) Link debounce           |
| <i>lnk_debounce_time</i>    | (Optional) Link debounce time      |
| <i>fex_fabric</i>           | (Optional) FEX Fabric              |
| <i>dot1q_tunnel</i>         | (Optional) dot1q-tunnel            |
| <i>pvlan_trunk_mode</i>     | (Optional) Private-vlan trunk mode |
| <i>port_group</i>           | (Optional) Port Group              |
| <i>port_group_members</i>   | (Optional) Port Group Members      |
| <i>eee_capable</i>          | (Optional) EEE (efficient-eth)     |
| <i>pfc_capable</i>          | (Optional) PFC Capable:            |
| <i>bkout_capable</i>        | (Optional) Breakout Capable:       |
| <i>buffer_boost_capable</i> | (Optional) Buffer Boost Capable:   |
| <i>speed_group_capable</i>  | (Optional) Speed group capable     |
| <i>macsec_capable</i>       | (Optional) MACSEC capable          |

**Command Mode**

- /exec



## show interface capabilities

```
show interface <ifid_cap> capabilities [ __readonly__ { TABLE_interface_capabilities_if <interface> [
<min_speed> ] [ <max_speed> ] [ <FC-PH_version_high> ] [ <FC-PH_version_low> ] [ <recieve_data_max>
] [ <recieve_data_min> ] [ <transmit_data_max> ] [ <transmit_data_min> ] [ <class_service> ] [ <class_2>
] [ <class_3> ] [ <hold_time_max> ] [ <hold_time_min> ] [ <BB_state_change> ] [ <max_BB_state_change>
] [ <rate_mode_change> ] [ <rate_mode_cap> ] [ <recieve_BB_credit> ] [ <FX_recieve_BB_credit> ] [
<ISL_recieve_BB_credit> ] [ <shared_performance_buf_mod_supp> ] [
<dedicated_performance_buf_mod_supp> ] [ <fx_mode_perf_buf> ] [ <isl_mode_perf_buf> ] [ <out_of_order>
] [ <beacon_mode_config> ] [ <extended_B2B> ] [ <on_demand_port> } ] }
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information                       |
| interface                       | Show interface status and information                 |
| <i>ifid_cap</i>                 | Enter interface type and number in module/slot format |
| capabilities                    | Show interface capabilities information               |
| <i>__readonly__</i>             | (Optional)  |
| TABLE_interface_capabilities_if | (Optional) interface capabilities if table            |
| <i>interface</i>                | (Optional) fc interface                               |
| <i>min_speed</i>                | (Optional) Min Speed                                  |
| <i>max_speed</i>                | (Optional) Max Speed                                  |
| <i>FC-PH_version_high</i>       | (Optional) FC-PH version high                         |
| <i>FC-PH_version_low</i>        | (Optional) FC-PH version low                          |
| <i>recieve_data_max</i>         | (Optional) Receive data field size max                |
| <i>recieve_data_min</i>         | (Optional) Receive data field size min                |
| <i>transmit_data_max</i>        | (Optional) Transmit data field size max               |
| <i>transmit_data_min</i>        | (Optional) Transmit data field size min               |
| <i>class_service</i>            | (Optional) Classes of Service supported               |
| <i>class_2</i>                  | (Optional) Class 2 sequential delivery                |
| <i>class_3</i>                  | (Optional) Class 3 sequential delivery                |
| <i>hold_time_max</i>            | (Optional) Hold time max                              |
| <i>hold_time_min</i>            | (Optional) Hold time min                              |
| <i>BB_state_change</i>          | (Optional) BB state change notification               |

|   |  |
|---|--|
| <i>max_BB_state_change</i>                | (Optional) Maximum BB state change notifications               |
| <i>rate_mode_change</i>                   | (Optional) Rate Mode change                                    |
| <i>rate_mode_cap</i>                      | (Optional) Rate Mode Capabilities                              |
| <i>recieve_BB_credit</i>                  | (Optional) Receive BB Credit modification supported            |
| <i>FX_recieve_BB_credit</i>               | (Optional) FX mode Receive BB Credit (min/max/default)         |
| <i>ISL_recieve_BB_credit</i>              | (Optional) ISL mode Receive BB Credit (min/max/default)        |
| <i>shared_performance_buf_mod_supp</i>    | (Optional) Performance buffer modification supported shared    |
| <i>dedicated_performance_buf_mod_supp</i> | (Optional) Performance buffer modification supported dedicated |
| <i>fx_mode_perf_buf</i>                   | (Optional) FX mode performance buffers                         |
| <i>isl_mode_perf_buf</i>                  | (Optional) ISL mode performance buffers                        |
| <i>out_of_order</i>                       | (Optional) Out of Service capable                              |
| <i>beacon_mode_config</i>                 | (Optional) Beacon mode configurable                            |
| <i>extended_B2B</i>                       | (Optional) Extended B2B credit capable                         |
| <i>on_demand_port</i>                     | (Optional) On demand port activation license supported         |

**Command Mode**

- /exec

## show interface capabilities

```
show interface capabilities [ __readonly__ TABLE_interface <interface> <model> <type> <speed> <duplex>
<trunk_encap> [ <dce_capable> ] <channel> <bcast_supp> <flo_ctrl> <rate_mode> <port_mode> [ <fast_start>
] <qos_scheduling> <cos_rewrite> <tos_rewrite> [ <inline_power> ] <span> <udld> [ <mdix> ] [ <tdr> ]
<lnk_debounce> <lnk_debounce_time> <fex_fabric> <dot1q_tunnel> [ <pvlan_trunk_mode> ] [ <port_group>
] [ <port_group_members> ] <eee_capable> <pfc_capable> [ <speed_group_capable> ] <buffer_boost_capable>
[ <bkout_capable> ] [ <macsec_capable> ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information         |
| interface             | Show interface status and information   |
| capabilities          | Show interface capabilities information |
| <i>__readonly__</i>   | (Optional) Read Only                    |
| <i>interface</i>      | (Optional) Interface index              |
| TABLE_interface       | (Optional) show interface               |
| <i>model</i>          | (Optional) Model                        |
| <i>type</i>           | (Optional) Type                         |
| <i>speed</i>          | (Optional) Speed                        |
| <i>duplex</i>         | (Optional) Duplex                       |
| <i>trunk_encap</i>    | (Optional) Trunk encap. type            |
| <i>dce_capable</i>    | (Optional) DCE mode capable             |
| <i>channel</i>        | (Optional) Channel                      |
| <i>bcast_supp</i>     | (Optional) Broadcast suppression        |
| <i>flo_ctrl</i>       | (Optional) Flowcontrol                  |
| <i>rate_mode</i>      | (Optional) Rate mode                    |
| <i>port_mode</i>      | (Optional) Port mode                    |
| <i>fast_start</i>     | (Optional) Fast start                   |
| <i>qos_scheduling</i> | (Optional) QOS scheduling               |
| <i>cos_rewrite</i>    | (Optional) CoS rewrite                  |
| <i>tos_rewrite</i>    | (Optional) ToS rewrite                  |
| <i>inline_power</i>   | (Optional) Inline power                 |

|                             |                                    |
|-----------------------------|------------------------------------|
| <i>span</i>                 | (Optional) SPAN                    |
| <i>udld</i>                 | (Optional) UDLD                    |
| <i>mdix</i>                 | (Optional) MDIX                    |
| <i>tdr</i>                  | (Optional) TDR                     |
| <i>lnk_debounce</i>         | (Optional) Link debounce           |
| <i>lnk_debounce_time</i>    | (Optional) Link debounce time      |
| <i>fex_fabric</i>           | (Optional) FEX Fabric              |
| <i>dot1q_tunnel</i>         | (Optional) dot1q-tunnel            |
| <i>pvlan_trunk_mode</i>     | (Optional) Private-vlan trunk mode |
| <i>port_group</i>           | (Optional) Port Group              |
| <i>port_group_members</i>   | (Optional) Port Group Members      |
| <i>eee_capable</i>          | (Optional) EEE (efficient-eth)     |
| <i>pfc_capable</i>          | (Optional) PFC Capable:            |
| <i>bkout_capable</i>        | (Optional) Breakout Capable:       |
| <i>buffer_boost_capable</i> | (Optional) Buffer Boost Capable:   |
| <i>speed_group_capable</i>  | (Optional) Speed group capable     |
| <i>macsec_capable</i>       | (Optional) MACSEC capable          |

**Command Mode**

- /exec

## show interface counters

```
show interface counters [ non-zero ] [ __readonly__ { TABLE_rx_counters <interface_rx> [ <eth_inpkts> ]
[ <eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] } { TABLE_tx_counters
<interface_tx> [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast>
] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] } ]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                        |
| interface                 | Show interface status and information                  |
| counters                  | Show interface counters                                |
| non-zero                  | (Optional) To display only the non-zero counter values |
| __readonly__              | (Optional) Read Only                                   |
| <i>interface_rx</i>       | (Optional) Interface index rx                          |
| <i>interface_tx</i>       | (Optional) Interface index tx                          |
| TABLE_rx_counters         | (Optional) show Rx counters                            |
| TABLE_tx_counters         | (Optional) show Tx counters                            |
| <i>eth_inpkts</i>         | (Optional) Packets input                               |
| <i>eth_inbytes</i>        | (Optional) Bytes input                                 |
| <i>eth_inucast</i>        | (Optional) Unicasts                                    |
| <i>eth_inmcast</i>        | (Optional) Multicasts                                  |
| <i>eth_inbcast</i>        | (Optional) Broadcasts                                  |
| <i>eth_outpkts</i>        | (Optional) Packets output                              |
| <i>eth_outbytes</i>       | (Optional) Bytes output                                |
| <i>eth_outucast</i>       | (Optional) Unicasts                                    |
| <i>eth_outmcast</i>       | (Optional) Multicasts                                  |
| <i>eth_outbcast</i>       | (Optional) Broadcasts                                  |
| <i>eth_l3in_bytes</i>     | (Optional) L3 Rx bytes                                 |
| <i>eth_l3in_ucastpkts</i> | (Optional) L3 Rx Unicast pkts                          |
| <i>eth_l3in_mcastpkts</i> | (Optional) L3 Rx Multicast pkts                        |
| <i>eth_l3in_bcastpkts</i> | (Optional) L3 Rx Broadcast pkts                        |

|                            |                                 |
|----------------------------|---------------------------------|
| <i>eth_l3out_bytes</i>     | (Optional) L3 Tx bytes          |
| <i>eth_l3out_ucastpkts</i> | (Optional) L3 Tx Unicast pkts   |
| <i>eth_l3out_mcastpkts</i> | (Optional) L3 Tx Multicast pkts |
| <i>eth_l3out_bcastpkts</i> | (Optional) L3 Tx Broadcast pkts |

**Command Mode**

- /exec

## show interface counters

```
show interface <ifid_ctr> counters [ brief ] [ __readonly__ ] [ { TABLE_counters <sfp> { TABLE_input_rate
<bit_per_sec> <bytes_per_sec> <frames_per_sec> } { TABLE_output_rate <bit_per_sec> <bytes_per_sec>
<frames_per_sec> } { TABLE_input <frames> <bytes> [ <class_2_frames> ] [ <class_2_bytes> ] [
<class_3_frames> ] [ <class_3_bytes> ] [ <class_f_frames> ] [ <class_f_bytes> ] [ <class_2_3_frames> ]
<discards> <errors> <crc_fcs> <unknown_class> <too_long> <too_short> } { TABLE_output <frames>
<bytes> [ <class_2_frames> ] [ <class_2_bytes> ] [ <class_3_frames> ] [ <class_3_bytes> ] [ <class_f_frames>
] [ <class_f_bytes> ] [ <class_2_3_frames> ] [ <discards> ] [ <errors> ] [ <crc_fcs> ] } [ <timeout_discards>
] [ <credit_loss> ] [ <input_ols> ] [ <input_lrr> ] [ <input_nos> ] [ <input_loop_inits> ] [ <output_ols> ] [
<output_lrr> ] [ <output_nos> ] [ <output_loop_inits> ] [ <link_faliures> ] [ <sync_loss> ] [ <signal_loss> ]
[ <b2b_transmit> ] [ <b2b_receive> ] [ <txwait> ] [ <tx_credit_unavbl> ] [ <b2b_receive_remain> ] [
<b2b_transmit_remain> ] [ <low_priority_b2b_remain> ] [ <off_seq_err_rcvd> ] [ <broadcast_frames> ] [
<errors> ] [ <queue_drops> ] [ <if_down_drops> ] [ <red_drops> ] [ <bad_ether_type_drops> ] [
<bad_protocol_drops> ] [ <arp_drops> ] [ <reass_frames> ] [ <timestamp_error> ] [ <rx_b2b_perf_buff> ]
[ <rx_b2b_credit> ] [ <tx_b2b_credit> ] [ <tx_b2b_low_pri_cre> ] [ <time_last_cleared> } } ] [ {
TABLE_counters_brief <sfp> <fc_input_rate> <fc_frames_in> <fc_output_rate> <fc_frames_out> } ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                       |
| interface             | Show interface status and information                 |
| <i>ifid_ctr</i>       | Enter interface type and number in module/slot format |
| counters              | Show interface counters                               |
| brief                 | (Optional) Show interface counters in brief           |
| <u>__readonly__</u>   | (Optional) Readonly                                   |
| TABLE_counters        | (Optional) Table counters                             |
| <i>sfp</i>            | (Optional) SFP  |
| TABLE_input_rate      | (Optional) Input rate                                 |
| <i>bit_per_sec</i>    | (Optional) Input rate bits per second                 |
| <i>bytes_per_sec</i>  | (Optional) Input rate bytes per second                |
| <i>frames_per_sec</i> | (Optional) Input rate frames per second               |
| TABLE_output_rate     | (Optional) Output rate                                |
| <i>bit_per_sec</i>    | (Optional) Output rate bits per second                |
| <i>bytes_per_sec</i>  | (Optional) Output rate bytes per second               |
| <i>frames_per_sec</i> | (Optional) Output rate frames per second              |
| TABLE_input           | (Optional) Input values                               |

|                         |                             |
|-------------------------|-----------------------------|
| <i>frames</i>           | (Optional) Frames           |
| <i>bytes</i>            | (Optional) Bytes            |
| <i>class_2_frames</i>   | (Optional) Class 2 frames   |
| <i>class_2_bytes</i>    | (Optional) Class 2 bytes    |
| <i>class_3_frames</i>   | (Optional) Class 3 frames   |
| <i>class_3_bytes</i>    | (Optional) Class 3 bytes    |
| <i>class_f_frames</i>   | (Optional) Class f frames   |
| <i>class_f_bytes</i>    | (Optional) Class f bytes    |
| <i>class_2_3_frames</i> | (Optional) Class 2/3 Frames |
| <i>discards</i>         | (Optional) Discards         |
| <i>errors</i>           | (Optional) Errors           |
| <i>crc_fcs</i>          | (Optional) CRC/FCS          |
| <i>unknown_class</i>    | (Optional) Unknown Class    |
| <i>too_long</i>         | (Optional) Frames too long  |
| <i>too_short</i>        | (Optional) Frames too short |
| TABLE_output            | (Optional) Output Values    |
| <i>frames</i>           | (Optional) Frames           |
| <i>bytes</i>            | (Optional) Bytes            |
| <i>class_2_frames</i>   | (Optional) Class 2 frames   |
| <i>class_2_bytes</i>    | (Optional) Class 2 bytes    |
| <i>class_3_frames</i>   | (Optional) Class 3 frames   |
| <i>class_3_bytes</i>    | (Optional) Class 3 bytes    |
| <i>class_f_frames</i>   | (Optional) Class f frames   |
| <i>class_f_bytes</i>    | (Optional) Class f bytes    |
| <i>class_2_3_frames</i> | (Optional) Class 2/3 frames |
| <i>discards</i>         | (Optional) Discards         |
| <i>errors</i>           | (Optional) Errors           |
| <i>crc_fcs</i>          | (Optional) CRC/FCS          |
| <i>timeout_discards</i> | (Optional) Timeout Discards |



|                                |  |
|--------------------------------|--|
| <i>credit_loss</i>             | (Optional) Credit Loss                       |
| <i>input_ols</i>               | (Optional) input ols                         |
| <i>input_lrr</i>               | (Optional) input LRR                         |
| <i>input_nos</i>               | (Optional) input NOS                         |
| <i>input_loop_inits</i>        | (Optional) input loop inits                  |
| <i>output_ols</i>              | (Optional) output OLS                        |
| <i>output_lrr</i>              | (Optional) output LRR                        |
| <i>output_nos</i>              | (Optional) output NOS                        |
| <i>output_loop_inits</i>       | (Optional) output loop inits                 |
| <i>link_faliures</i>           | (Optional) link faliures                     |
| <i>sync_loss</i>               | (Optional) Sync loss                         |
| <i>signal_loss</i>             | (Optional) Signal loss                       |
| <i>b2b_transmit</i>            | (Optional) B2B transmit                      |
| <i>b2b_receive</i>             | (Optional) B2B receive                       |
| <i>txwait</i>                  | (Optional) TxWait                            |
| <i>tx_credit_unavbl</i>        | (Optional) Tx credit unavliable              |
| <i>b2b_receive_remain</i>      | (Optional) B2B receive remain                |
| <i>b2b_transmit_remain</i>     | (Optional) B2B transmit remain               |
| <i>low_priority_b2b_remain</i> | (Optional) Low priority B2B credit remaining |
| <i>time_last_cleared</i>       | (Optional) Last time cleared                 |
| <i>broadcast_frames</i>        | (Optional) Broadcast frames                  |
| <i>errors</i>                  | (Optional) Errors                            |
| <i>queue_drops</i>             | (Optional) Queue drops                       |
| <i>if_down_drops</i>           | (Optional) If down drops                     |
| <i>red_drops</i>               | (Optional) Red drops                         |
| <i>bad_ether_type_drops</i>    | (Optional) Bad ether type drops              |
| <i>bad_protocol_drops</i>      | (Optional) Bad Protocol Drops                |
| <i>arp_drops</i>               | (Optional) Arp Drops                         |
| <i>timestamp_error</i>         | (Optional) Timestamp Error                   |

|                           |   |
|---------------------------|---|
| <i>reass_frames</i>       | (Optional) Reass Frames                   |
| <i>rx_b2b_perf_buff</i>   | (Optional) RX B2B performance buffer      |
| <i>rx_b2b_credit</i>      | (Optional) RX B2B credit remaining        |
| <i>tx_b2b_credit</i>      | (Optional) TX B2B credit remaining        |
| <i>tx_b2b_low_pri_cre</i> | (Optional) TX B2B low priority Credit     |
| <i>off_seq_err_rcvd</i>   | (Optional) Offset Sequence Error Received |
| TABLE_counters_brief      | (Optional) Table counters brief           |
| <i>sfp</i>                | (Optional) FC id                          |
| <i>fc_input_rate</i>      | (Optional) Input rate                     |
| <i>fc_frames_in</i>       | (Optional) Frames in                      |
| <i>fc_output_rate</i>     | (Optional) Output rate                    |
| <i>fc_frames_out</i>      | (Optional) Frames out                     |

**Command Mode**

- /exec

## show interface counters

```
show interface <ifid_ctr> counters [ snmp ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] } { TABLE_tx_counters
<interface_tx> [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast>
] } ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                       |
| interface           | Show interface status and information                 |
| <i>ifid_ctr</i>     | Enter interface type and number in module/slot format |
| counters            | Show interface counters                               |
| snmp                | (Optional) Show SNMP MIB values                       |
| <u>__readonly__</u> | (Optional) Read Only                                  |
| <i>interface_rx</i> | (Optional) Interface index rx                         |
| <i>interface_tx</i> | (Optional) Interface index tx                         |
| TABLE_rx_counters   | (Optional) show Rx counters                           |
| <i>eth_inpkts</i>   | (Optional) Packets input                              |
| <i>eth_inbytes</i>  | (Optional) Bytes input                                |
| <i>eth_inucast</i>  | (Optional) Unicasts                                   |
| <i>eth_inmcast</i>  | (Optional) Multicasts                                 |
| <i>eth_inbcast</i>  | (Optional) Broadcasts                                 |
| TABLE_tx_counters   | (Optional) show Tx counters                           |
| <i>eth_outpkts</i>  | (Optional) Packets output                             |
| <i>eth_outbytes</i> | (Optional) Bytes output                               |
| <i>eth_outucast</i> | (Optional) Unicasts                                   |
| <i>eth_outmcast</i> | (Optional) Multicasts                                 |
| <i>eth_outbcast</i> | (Optional) Broadcasts                                 |

### Command Mode

- /exec

## show interface counters

```
show interface counters [ module <module> ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inpkts> ] [ <fc_inframes> ] [ <eth_inbytes> ] [ <fc_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [
<eth_inbcast> ] [ <eth_l3in_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts>
] } { TABLE_tx_counters <interface_tx> [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [
<eth_outmcast> ] [ <eth_outbcast> ] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts>
] [ <eth_l3out_bcastpkts> ] } ]
```

### Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                  |
| interface           | Show interface status and information            |
| counters            | Show interface counters                          |
| module              | (Optional) Limit display to interfaces on module |
| <i>module</i>       | (Optional) Enter module number                   |
| <i>__readonly__</i> | (Optional) Read Only                             |
| <i>interface_rx</i> | (Optional) Interface index rx                    |
| <i>interface_tx</i> | (Optional) Interface index tx                    |
| TABLE_rx_counters   | (Optional) show Rx counters                      |
| TABLE_tx_counters   | (Optional) show Tx counters                      |
| <i>eth_inpkts</i>   | (Optional) Packets input                         |
| <i>fc_inframes</i>  | (Optional) Frames input fc                       |
| <i>eth_inbytes</i>  | (Optional) Bytes input                           |
| <i>fc_inbytes</i>   | (Optional) Bytes input fc                        |
| <i>eth_inucast</i>  | (Optional) Unicasts                              |
| <i>eth_inmcast</i>  | (Optional) Multicasts                            |
| <i>eth_inbcast</i>  | (Optional) Broadcasts                            |
| <i>eth_outpkts</i>  | (Optional) Packets output                        |
| <i>eth_outbytes</i> | (Optional) Bytes output                          |
| <i>eth_outucast</i> | (Optional) Unicasts                              |
| <i>eth_outmcast</i> | (Optional) Multicasts                            |
| <i>eth_outbcast</i> | (Optional) Broadcasts                            |

|                            |                                 |
|----------------------------|---------------------------------|
| <i>eth_l3in_bytes</i>      | (Optional) L3 Rx bytes          |
| <i>eth_l3in_ucastpkts</i>  | (Optional) L3 Rx Unicast pkts   |
| <i>eth_l3in_mcastpkts</i>  | (Optional) L3 Rx Multicast pkts |
| <i>eth_l3in_bcastpkts</i>  | (Optional) L3 Rx Broadcast pkts |
| <i>eth_l3out_bytes</i>     | (Optional) L3 Tx bytes          |
| <i>eth_l3out_ucastpkts</i> | (Optional) L3 Tx Unicast pkts   |
| <i>eth_l3out_mcastpkts</i> | (Optional) L3 Tx Multicast pkts |
| <i>eth_l3out_bcastpkts</i> | (Optional) L3 Tx Broadcast pkts |

**Command Mode**

- /exec

## show interface counters

```
show interface <ifeth_ctr> counters [ snmp ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] } } { TABLE_tx_counters
<interface_tx> [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_l3out_bytes>
] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] } }
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information                       |
| interface                 | Show interface status and information                 |
| <i>ifeth_ctr</i>          | Enter interface type and number in module/slot format |
| counters                  | Show interface counters                               |
| snmp                      | (Optional) Show SNMP MIB values                       |
| <u>__readonly__</u>       | (Optional) Read Only                                  |
| TABLE_rx_counters         | (Optional) show Rx counters                           |
| <i>interface_rx</i>       | (Optional) Interface index rx                         |
| <i>eth_inbytes</i>        | (Optional) Bytes input                                |
| <i>eth_inucast</i>        | (Optional) Unicasts input                             |
| <i>eth_inmcast</i>        | (Optional) Multicasts input                           |
| <i>eth_inbcast</i>        | (Optional) Broadcasts input                           |
| <i>eth_l3in_bytes</i>     | (Optional) L3 Rx bytes                                |
| <i>eth_l3in_ucastpkts</i> | (Optional) L3 Rx Unicast pkts                         |
| <i>eth_l3in_mcastpkts</i> | (Optional) L3 Rx Multicast pkts                       |
| <i>eth_l3in_bcastpkts</i> | (Optional) L3 Rx Broadcast pkts                       |
| TABLE_tx_counters         | (Optional) show Tx counters                           |
| <i>interface_tx</i>       | (Optional) Interface index tx                         |
| <i>eth_outbytes</i>       | (Optional) Bytes output                               |
| <i>eth_outucast</i>       | (Optional) Unicasts output                            |
| <i>eth_outmcast</i>       | (Optional) Multicasts output                          |
| <i>eth_outbcast</i>       | (Optional) Broadcasts output                          |
| <i>eth_l3out_bytes</i>    | (Optional) L3 Tx bytes                                |

|                            |                                 |
|----------------------------|---------------------------------|
| <i>eth_l3out_ucastpkts</i> | (Optional) L3 Tx Unicast pkts   |
| <i>eth_l3out_mcastpkts</i> | (Optional) L3 Tx Multicast pkts |
| <i>eth_l3out_bcastpkts</i> | (Optional) L3 Tx Broadcast pkts |

**Command Mode**

- /exec

## show interface counters

```
show interface <ifeth_ctr> counters [ __readonly__ { TABLE_rx_counters <interface_rx> [ <eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] } { TABLE_tx_counters <interface_tx> [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] } ]
```

### Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information                       |
| interface                  | Show interface status and information                 |
| <i>ifeth_ctr</i>           | Enter interface type and number in module/slot format |
| counters                   | Show interface counters                               |
| <i>__readonly__</i>        | (Optional) Read Only                                  |
| TABLE_rx_counters          | (Optional) show Rx counters                           |
| <i>interface_rx</i>        | (Optional) Interface index rx                         |
| <i>eth_inbytes</i>         | (Optional) Bytes input                                |
| <i>eth_inucast</i>         | (Optional) Unicasts input                             |
| <i>eth_inmcast</i>         | (Optional) Multicasts input                           |
| <i>eth_inbcast</i>         | (Optional) Broadcasts input                           |
| <i>eth_l3in_bytes</i>      | (Optional) L3 Rx bytes                                |
| <i>eth_l3in_ucastpkts</i>  | (Optional) L3 Rx Unicast pkts                         |
| <i>eth_l3in_mcastpkts</i>  | (Optional) L3 Rx Multicast pkts                       |
| <i>eth_l3in_bcastpkts</i>  | (Optional) L3 Rx Broadcast pkts                       |
| TABLE_tx_counters          | (Optional) show Tx counters                           |
| <i>interface_tx</i>        | (Optional) Interface index tx                         |
| <i>eth_outbytes</i>        | (Optional) Bytes output                               |
| <i>eth_outucast</i>        | (Optional) Unicasts output                            |
| <i>eth_outmcast</i>        | (Optional) Multicasts output                          |
| <i>eth_outbcast</i>        | (Optional) Broadcasts output                          |
| <i>eth_l3out_bytes</i>     | (Optional) L3 Tx bytes                                |
| <i>eth_l3out_ucastpkts</i> | (Optional) L3 Tx Unicast pkts                         |



|                            |                                 |
|----------------------------|---------------------------------|
| <i>eth_l3out_mcastpkts</i> | (Optional) L3 Tx Multicast pkts |
| <i>eth_l3out_bcastpkts</i> | (Optional) L3 Tx Broadcast pkts |

**Command Mode**

- /exec

## show interface counters

```
show interface <ifrange> counters [ __readonly__ TABLE_interface <interface> [ <overlay_load_interval>
] [ <overlay_rx_ucastpkts> ] [ <overlay_rx_ucastbytes> ] [ <overlay_rx_mcastpkts> ] [
<overlay_rx_mcastbytes> ] [ <overlay_rx_pkts> ] [ <overlay_rx_bytes> ] [ <overlay_rx_bcastpkts> ] [
<overlay_rx_bcastbytes> ] [ <overlay_rx_bitrate> ] [ <overlay_rx_pktrate> ] [ <overlay_tx_ucastpkts> ] [
<overlay_tx_ucastbytes> ] [ <overlay_tx_mcastpkts> ] [ <overlay_tx_mcastbytes> ] [ <overlay_tx_bcastpkts>
] [ <overlay_tx_bcastbytes> ] [ <overlay_tx_pkts> ] [ <overlay_tx_bytes> ] [ <overlay_tx_bitrate> ] [
<overlay_tx_pktrate> ] ]
```

### Syntax Description

|                              |                                       |
|------------------------------|---------------------------------------|
| show                         | Show running system information       |
| interface                    | Show interface status and information |
| <i>ifrange</i>               | Enter interface type and number       |
| counters                     | Show interface counters               |
| <i>__readonly__</i>          | (Optional) Read Only                  |
| <i>interface</i>             | (Optional) Interface index            |
| TABLE_interface              | (Optional) show interface             |
| <i>overlay_load_interval</i> | (Optional) Load interval              |
| <i>overlay_rx_ucastpkts</i>  | (Optional) Received ucast pkts        |
| <i>overlay_rx_ucastbytes</i> | (Optional) Received ucast bytes       |
| <i>overlay_rx_mcastpkts</i>  | (Optional) Received mcast pkts        |
| <i>overlay_rx_mcastbytes</i> | (Optional) Received mcast bytes       |
| <i>overlay_rx_bcastpkts</i>  | (Optional) Received bcast pkts        |
| <i>overlay_rx_bcastbytes</i> | (Optional) Received bcast bytes       |
| <i>overlay_rx_pkts</i>       | (Optional) Total received pkts        |
| <i>overlay_rx_bytes</i>      | (Optional) Total received bytes       |
| <i>overlay_rx_bitrate</i>    | (Optional) Receive bit rate           |
| <i>overlay_rx_pktrate</i>    | (Optional) Receive pkt rate           |
| <i>overlay_tx_ucastpkts</i>  | (Optional) Trasnmitted ucast pkts     |
| <i>overlay_tx_ucastbytes</i> | (Optional) Trasnmitted ucast bytes    |
| <i>overlay_tx_mcastpkts</i>  | (Optional) Trasnmitted mcast pkts     |
| <i>overlay_tx_mcastbytes</i> | (Optional) Trasnmitted mcast bytes    |

|                              |                                    |
|------------------------------|------------------------------------|
| <i>overlay_tx_bcastpkts</i>  | (Optional) Trasnmitted beast pkts  |
| <i>overlay_tx_bcastbytes</i> | (Optional) Trasnmitted beast bytes |
| <i>overlay_tx_pkts</i>       | (Optional) Total transmitted pkts  |
| <i>overlay_tx_bytes</i>      | (Optional) Total transmitted bytes |
| <i>overlay_tx_bitrate</i>    | (Optional) Transmit bit rate       |
| <i>overlay_tx_pktrate</i>    | (Optional) Transmit pkt rate       |

**Command Mode**

- /exec

## show interface counters

```
show interface <ifrange> counters [ __readonly__ { TABLE_nve_counters <interface> [ <ucast_inbytes> ]
[ <ucast_inpkts> ] [ <ucast_outbytes> ] [ <ucast_outpkts> ] [ <mcast_inbytes> ] [ <mcast_inpkts> ] [
<mcast_outbytes> ] [ <mcast_outpkts> ] } ]
```

### Syntax Description

|                       |                                       |
|-----------------------|---------------------------------------|
| show                  | Show running system information       |
| interface             | Show interface status and information |
| <i>ifrange</i>        | Enter interface type and number       |
| counters              | Show interface counters               |
| <i>__readonly__</i>   | (Optional) Read Only                  |
| <i>interface</i>      | (Optional) Interface index            |
| TABLE_nve_counters    | (Optional) show interface             |
| <i>ucast_inbytes</i>  | (Optional) ucast bytes input          |
| <i>ucast_inpkts</i>   | (Optional) ucast packets input        |
| <i>ucast_outbytes</i> | (Optional) ucast bytes output         |
| <i>ucast_outpkts</i>  | (Optional) ucast packets output       |
| <i>mcast_inbytes</i>  | (Optional) mcast bytes input          |
| <i>mcast_inpkts</i>   | (Optional) mcast packets input        |
| <i>mcast_outbytes</i> | (Optional) mcast bytes output         |
| <i>mcast_outpkts</i>  | (Optional) mcast packets output       |

### Command Mode

- /exec

## show interface counters brief

```
show interface counters brief [ <counter_val> ] [ __readonly__ TABLE_interface <interface> [ <eth_inrate1> ] [ <eth_inframes1> ] [ <eth_outrate1> ] [ <eth_outframes1> ] [ <eth_load_intv1> ] [ <eth_inrate2> ] [ <eth_inframes2> ] [ <eth_outrate2> ] [ <eth_outframes2> ] [ <eth_load_intv2> ] [ <eth_inrate3> ] [ <eth_inframes3> ] [ <eth_outrate3> ] [ <eth_outframes3> ] [ <eth_load_intv3> ] [ <fc_input_rate> ] [ <fc_frames_in> ] [ <fc_output_rate> ] [ <fc_frames_out> ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                                |
| interface             | Show interface status and information                          |
| counters              | Show interface counters  |
| brief                 | Show interface counters in brief                               |
| <i>counter_val</i>    | (Optional) Specify a single load interval id to show the rates |
| <i>__readonly__</i>   | (Optional) Read Only   |
| <i>interface</i>      | (Optional) Interface index                                     |
| TABLE_interface       | (Optional) show interface                                      |
| <i>eth_inrate1</i>    | (Optional) interval 1 input rate in mbps                       |
| <i>eth_inframes1</i>  | (Optional) interval 1 input rate in frames (pkts)              |
| <i>eth_outrate1</i>   | (Optional) interval 1 output rate in mbps                      |
| <i>eth_outframes1</i> | (Optional) interval 1 output rate in output frames (pkts)      |
| <i>eth_load_intv1</i> | (Optional) interval 1 timer value in sec                       |
| <i>eth_inrate2</i>    | (Optional) interval 2 input rate in mbps                       |
| <i>eth_inframes2</i>  | (Optional) interval 2 input rate in frames (pkts)              |
| <i>eth_outrate2</i>   | (Optional) interval 2 output rate in mbps                      |
| <i>eth_outframes2</i> | (Optional) interval 2 output rate in output frames (pkts)      |
| <i>eth_load_intv2</i> | (Optional) interval 2 timer value in sec                       |
| <i>eth_inrate3</i>    | (Optional) interval 3 input rate in mbps                       |
| <i>eth_inframes3</i>  | (Optional) interval 3 input rate in frames (pkts)              |
| <i>eth_outrate3</i>   | (Optional) interval 3 output rate in mbps                      |
| <i>eth_outframes3</i> | (Optional) interval 3 output rate in output frames (pkts)      |
| <i>eth_load_intv3</i> | (Optional) interval 3 timer value in sec                       |

|                       |                        |
|-----------------------|------------------------|
| <i>fc_input_rate</i>  | (Optional) Input rate  |
| <i>fc_frames_in</i>   | (Optional) Frames in   |
| <i>fc_output_rate</i> | (Optional) Output rate |
| <i>fc_frames_out</i>  | (Optional) Frames out  |

**Command Mode**

- /exec

## show interface counters brief

```
show interface <ifeth_ctr_brf> counters brief [ <counter_val> ] [ __readonly__ TABLE_interface <interface>
<eth_inrate1> <eth_inframes1> <eth_outrate1> <eth_outframes1> <eth_load_intv1> <eth_inrate2>
<eth_inframes2> <eth_outrate2> <eth_outframes2> <eth_load_intv2> [ <eth_inrate3> <eth_inframes3>
<eth_outrate3> <eth_outframes3> <eth_load_intv3> ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                                |
| interface             | Show interface status and information                          |
| <i>ifeth_ctr_brf</i>  | Enter interface type and number in module/slot format          |
| counters              | Show interface counters  |
| brief                 | Show interface counters in brief                               |
| <i>counter_val</i>    | (Optional) Specify a single load interval id to show the rates |
| <i>__readonly__</i>   | (Optional) Read Only   |
| TABLE_interface       | (Optional) show interface                                      |
| <i>interface</i>      | (Optional) Interface index                                     |
| <i>eth_inrate1</i>    | (Optional) interval 1 input rate in mbps                       |
| <i>eth_inframes1</i>  | (Optional) interval 1 input rate in frames (pkts)              |
| <i>eth_outrate1</i>   | (Optional) interval 1 output rate in mbps                      |
| <i>eth_outframes1</i> | (Optional) interval 1 output rate in output frames (pkts)      |
| <i>eth_load_intv1</i> | (Optional) interval 1 timer value in sec                       |
| <i>eth_inrate2</i>    | (Optional) interval 2 input rate in mbps                       |
| <i>eth_inframes2</i>  | (Optional) interval 2 input rate in frames (pkts)              |
| <i>eth_outrate2</i>   | (Optional) interval 2 output rate in mbps                      |
| <i>eth_outframes2</i> | (Optional) interval 2 output rate in output frames (pkts)      |
| <i>eth_load_intv2</i> | (Optional) interval 2 timer value in sec                       |
| <i>eth_inrate3</i>    | (Optional) interval 3 input rate in mbps                       |
| <i>eth_inframes3</i>  | (Optional) interval 3 input rate in frames (pkts)              |
| <i>eth_outrate3</i>   | (Optional) interval 3 output rate in mbps                      |
| <i>eth_outframes3</i> | (Optional) interval 3 output rate in output frames (pkts)      |

|                       |  |
|-----------------------|--|
| <i>eth_load_intv3</i> | (Optional) interval 3 timer value in sec |
|-----------------------|--|

**Command Mode**

- /exec



## show interface counters detailed

```

show interface counters detailed [ snmp ] [ __readonly__ TABLE_interface <interface> [ <vdc_lvl_in_pkts>
] [ <vdc_lvl_in_bytes> ] [ <vdc_lvl_in_ucast> ] [ <vdc_lvl_in_mcast> ] [ <vdc_lvl_in_bcast> ] [
<vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [ <vdc_lvl_in_avg_pkts> ] [ <vdc_lvl_in_avg_bytes> ] [
<vdc_lvl_out_pkts> ] [ <vdc_lvl_out_bytes> ] [ <vdc_lvl_out_ucast> ] [ <vdc_lvl_out_mcast> ] [
<vdc_lvl_out_bcast> ] [ <vdc_lvl_out_bps> ] [ <vdc_lvl_out_pps> ] [ <vdc_lvl_out_avg_pkts> ] [
<vdc_lvl_out_avg_bytes> ] [ <mgmt_in_pkts> ] [ <mgmt_in_bytes> ] [ <mgmt_in_mcast> ] [
<mgmt_in_compressed> ] [ <mgmt_in_errors> ] [ <mgmt_in_frame> ] [ <mgmt_in_overrun> ] [
<mgmt_in_fifo> ] [ <mgmt_out_pkts> ] [ <mgmt_out_bytes> ] [ <mgmt_out_underruns> ] [
<mgmt_out_errors> ] [ <mgmt_out_collisions> ] [ <mgmt_out_fifo> ] [ <mgmt_out_carrier> ] [
<mgmt_align_err> ] [ <mgmt_fcs_err> ] [ <mgmt_xmit_err> ] [ <mgmt_rcv_err> ] [ <mgmt_undersize> ] [
<mgmt_outdisc> ] [ <mgmt_single_coll> ] [ <mgmt_multi_coll> ] [ <mgmt_late_coll> ] [ <mgmt_excess_coll>
] [ <mgmt_carri_sen> ] [ <mgmt_runs> ] [ <mgmt_giants> ] [ <mgmt_sqetest_err> ] [ <mgmt_deferred_tx>
] [ <mgmt_inmactx_err> ] [ <mgmt_inmacrx_err> ] [ <mgmt_symbol_err> ] [ <loop_in_pkts> ] [
<loop_in_bytes> ] [ <loop_in_mcast> ] [ <loop_in_compressed> ] [ <loop_in_errors> ] [ <loop_in_frame>
] [ <loop_in_overrun> ] [ <loop_in_fifo> ] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [ <loop_out_underruns>
] [ <loop_out_errors> ] [ <loop_out_collisions> ] [ <loop_out_fifo> ] [ <loop_out_carriers> ] [
<eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [ <eth_load_interval1_tx> ] [
<eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits> ] [ <eth_inrate1_summary_pkts>
] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [ <eth_load_interval2_rx> ] [
<eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [ <eth_outrate2_bits> ] [
<eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts> ] [
<eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_pkts> ] [ <eth_inpkts> ] [ <eth_inucast> ] [
<eth_inmcast> ] [ <eth_inbcast> ] [ <eth_ingiants> ] [ <eth_inbytes> ] [ <eth_storm_supp> ] [ <eth_inb64>
] [ <eth_inb65_127> ] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [
<eth_inb1024_1518> ] [ <eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outpkts> ] [ <eth_outucast> ] [
<eth_outmcast> ] [ <eth_outbcast> ] [ <eth_outgiants> ] [ <eth_outbytes> ] [ <eth_outb64> ] [
<eth_outb65_127> ] [ <eth_outb128_255> ] [ <eth_outb256_511> ] [ <eth_outb512_1023> ] [
<eth_outb1024_1518> ] [ <eth_outb1519_1548> ] [ <eth_outtrunk> ] [ <eth_nobuf> ] [ <eth_runs> ] [
<eth_crc> ] [ <eth_ecc> ] [ <eth_overrun> ] [ <eth_underrun> ] [ <eth_ignored> ] [ <eth_bad_eth> ] [
<eth_bad_proto> ] [ <eth_in_ifdown_drops> ] [ <eth_coll> ] [ <eth_latecoll> ] [ <eth_lostcarrier> ] [
<eth_nocarrier> ] [ <eth_babbles> ] [ <eth_watchdog> ] [ <eth_dribble> ] [ <eth_inerr> ] [ <eth_outerr> ] [
<eth_deferred> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_single_coll> ] [ <eth_multi_coll> ] [
<eth_excess_coll> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [ <eth_outcrc> ] [ <eth_symbol> ] [
<eth_out_drops> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [ <eth_cos2_outlost>
] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost> ] [
<eth_cos7_outlost> ] [ <eth_inpause> ] [ <eth_outpause> ] [ <eth_resets> ] [ <eth_sqetest> ] [
<eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [
<eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [ <eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [
<eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ]
] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [
<eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [
<eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [
<eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [
<eth_insw_switched> ] [ <eth_throtles> ] [ <eth_frame> ] [ <eth_outhw_switched> ] [ <eth_outsw_switched>
] [ <eth_buffail> ] [ <eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] [ <eth_fcoe_in_pkts>

```

```

][ <eth_fcoe_in_octets> ][ <eth_fcoe_out_pkts> ][ <eth_fcoe_out_octets> ][ <eth_nfcoe_in_pkts> ][
<eth_nfcoe_in_octets> ][ <eth_nfcoe_out_pkts> ][ <eth_nfcoe_out_octets> ][ <svi_routed_pkts_in> ][
<svi_routed_bytes_in> ][ <svi_routed_pkts_out> ][ <svi_routed_bytes_out> ][ <svi_ucast_pkts_in> ][
<svi_ucast_bytes_in> ][ <svi_mcast_pkts_in> ][ <svi_mcast_bytes_in> ][ <svi_ucast_pkts_out> ][
<svi_ucast_bytes_out> ][ <svi_mcast_pkts_out> ][ <svi_mcast_bytes_out> ][ <svi_ipv4_ucast_pkts_in> ][
<svi_ipv4_ucast_bytes_in> ][ <svi_ipv4_ucast_pkts_out> ][ <svi_ipv4_ucast_bytes_out> ][
<svi_ipv4_mcast_pkts_in> ][ <svi_ipv4_mcast_bytes_in> ][ <svi_ipv4_mcast_pkts_out> ][
<svi_ipv4_mcast_bytes_out> ][ <svi_ipv6_ucast_pkts_in> ][ <svi_ipv6_ucast_bytes_in> ][
<svi_ipv6_ucast_pkts_out> ][ <svi_ipv6_ucast_bytes_out> ][ <svi_ipv6_mcast_pkts_in> ][
<svi_ipv6_mcast_bytes_in> ][ <svi_ipv6_mcast_pkts_out> ][ <svi_ipv6_mcast_bytes_out> ][
<svi_average_input_bits> ][ <svi_average_input_packets> ][ <svi_average_output_bits> ][
<svi_average_output_packets> ][ <svi_rate_in_mins> ][ <svi_time_last_cleared> ][ <svi_tx_load> ][
<svi_rx_load> ][ <svi_reliability> ][ <input_rate_bit_per_sec> ][ <input_rate_bytes_per_sec> ][
<input_rate_frames_per_sec> ][ <output_rate_bit_per_sec> ][ <output_rate_bytes_per_sec> ][
<output_rate_frames_per_sec> ][ <in_frames> ][ <in_bytes> ][ <class_2_in_frames> ][ <class_2_in_bytes>
][ <class_3_in_frames> ][ <class_3_in_bytes> ][ <class_f_in_frames> ][ <class_f_in_bytes> ][
<class_2_3_in_frames> ][ <in_discards> ][ <in_errors> ][ <in_crc_fcs> ][ <in_unknown_class> ][
<in_too_long> ][ <in_too_short> ][ <out_frames> ][ <out_bytes> ][ <class_2_out_frames> ][
<class_2_out_bytes> ][ <class_3_out_frames> ][ <class_3_out_bytes> ][ <class_f_out_frames> ][
<class_f_out_bytes> ][ <class_2_3_out_frames> ][ <out_discards> ][ <out_errors> ][ <out_crc_fcs> ][
<timeout_discards> ][ <credit_loss> ][ <input_ols> ][ <input_lrr> ][ <input_nos> ][ <input_loop_inits> ][
<output_ols> ][ <output_lrr> ][ <output_nos> ][ <output_loop_inits> ][ <link_faliures> ][ <sync_loss>
][ <signal_loss> ][ <b2b_transmit> ][ <b2b_receive> ][ <txwait> ][ <tx_credit_unavbl> ][
<b2b_receive_remain> ][ <b2b_transmit_remain> ][ <low_priority_b2b_remain> ][ <off_seq_err_rcvd> ][
<broadcast_frames> ][ <errors> ][ <queue_drops> ][ <if_down_drops> ][ <red_drops> ][
<bad_ether_type_drops> ][ <bad_protocol_drops> ][ <arp_drops> ][ <reass_frames> ][ <timestamp_error>
][ <rx_b2b_perf_buff> ][ <rx_b2b_credit> ][ <tx_b2b_credit> ][ <tx_b2b_low_pri_cre> ][
<time_last_cleared> ] ]

```

### Syntax Description

|                  |  |
|------------------|--|
| show             | Show running system information              |
| interface        | Show interface status and information        |
| counters         | Show interface counters                      |
| detailed         | Show only non-zero counters                  |
| snmp             | (Optional) Show SNMP MIB values              |
| __readonly__     | (Optional) Read Only                         |
| TABLE_interface  | (Optional) show interface                    |
| interface        | (Optional) Interface index                   |
| vdc_lvl_in_pkts  | (Optional) VDC level input packets           |
| vdc_lvl_in_bytes | (Optional) VDC level input bytes             |
| vdc_lvl_in_ucast | (Optional) VDC level input unicast packets   |
| vdc_lvl_in_mcast | (Optional) VDC level input multicast packets |

|                              |  |
|------------------------------|--|
| <i>vdc_lvl_in_bcast</i>      | (Optional) VDC level input broadcast packets   |
| <i>vdc_lvl_in_bps</i>        | (Optional) VDC level input bytes per second    |
| <i>vdc_lvl_in_pps</i>        | (Optional) VDC level input packets per second  |
| <i>vdc_lvl_in_avg_pkts</i>   | (Optional) VDC level average input packets     |
| <i>vdc_lvl_in_avg_bytes</i>  | (Optional) VDC level average input bytes       |
| <i>vdc_lvl_out_pkts</i>      | (Optional) VDC level output packets            |
| <i>vdc_lvl_out_bytes</i>     | (Optional) VDC level output bytes              |
| <i>vdc_lvl_out_ucast</i>     | (Optional) VDC level output unicast packets    |
| <i>vdc_lvl_out_mcast</i>     | (Optional) VDC level output multicast packets  |
| <i>vdc_lvl_out_bcast</i>     | (Optional) VDC level output broadcast packets  |
| <i>vdc_lvl_out_bps</i>       | (Optional) VDC level output bytes per second   |
| <i>vdc_lvl_out_pps</i>       | (Optional) VDC level output packets per second |
| <i>vdc_lvl_out_avg_pkts</i>  | (Optional) VDC level average output packets    |
| <i>vdc_lvl_out_avg_bytes</i> | (Optional) VDC level average output bytes      |
| <i>mgmt_in_pkts</i>          | (Optional) Input packets                       |
| <i>mgmt_in_bytes</i>         | (Optional) Input bytes                         |
| <i>mgmt_in_mcast</i>         | (Optional) Input multicast frames              |
| <i>mgmt_in_compressed</i>    | (Optional) Input compressed                    |
| <i>mgmt_in_errors</i>        | (Optional) Input errors                        |
| <i>mgmt_in_frame</i>         | (Optional) Input frame errors                  |
| <i>mgmt_in_overrun</i>       | (Optional) Input overrun                       |
| <i>mgmt_in_fifo</i>          | (Optional) Input fifo                          |
| <i>mgmt_out_pkts</i>         | (Optional) Output packets                      |
| <i>mgmt_out_bytes</i>        | (Optional) Output bytes                        |
| <i>mgmt_out_underruns</i>    | (Optional) Output overruns                     |
| <i>mgmt_out_errors</i>       | (Optional) Output errors                       |
| <i>mgmt_out_collisions</i>   | (Optional) Output collisions                   |
| <i>mgmt_out_fifo</i>         | (Optional) Output fifo                         |
| <i>mgmt_out_carrier</i>      | (Optional) Output carrier errors               |

|                           |                               |
|---------------------------|-------------------------------|
| <i>mgmt_align_err</i>     | (Optional) Align error        |
| <i>mgmt_fcs_err</i>       | (Optional) FCS error          |
| <i>mgmt_xmit_err</i>      | (Optional) Transmit error     |
| <i>mgmt_rcv_err</i>       | (Optional) Receive error      |
| <i>mgmt_undersize</i>     | (Optional) Undersize          |
| <i>mgmt_outdisc</i>       | (Optional) Out discard        |
| <i>mgmt_single_col</i>    | (Optional) Single collision   |
| <i>mgmt_multi_col</i>     | (Optional) Multiple collision |
| <i>mgmt_late_col</i>      | (Optional) Late collision     |
| <i>mgmt_excess_col</i>    | (Optional) Excess collision   |
| <i>mgmt_carri_sen</i>     | (Optional) Carrier sense      |
| <i>mgmt_runts</i>         | (Optional) Runts              |
| <i>mgmt_giants</i>        | (Optional) Giants             |
| <i>mgmt_sqetest_err</i>   | (Optional) SQETest error      |
| <i>mgmt_deferred_tx</i>   | (Optional) Deferred tx        |
| <i>mgmt_inmactx_err</i>   | (Optional) In MAC tx          |
| <i>mgmt_inmacrx_err</i>   | (Optional) In MAC rx          |
| <i>mgmt_symbol_err</i>    | (Optional) Symbol error       |
| <i>loop_in_pkts</i>       | (Optional) Input packets      |
| <i>loop_in_bytes</i>      | (Optional) Input bytes        |
| <i>loop_in_mcast</i>      | (Optional) Input multicast    |
| <i>loop_in_compressed</i> | (Optional) Input compressed   |
| <i>loop_in_errors</i>     | (Optional) Input errors       |
| <i>loop_in_frame</i>      | (Optional) Input frame errors |
| <i>loop_in_overrun</i>    | (Optional) Input overrun      |
| <i>loop_in_fifo</i>       | (Optional) Input fifo         |
| <i>loop_out_pkts</i>      | (Optional) Output packets     |
| <i>loop_out_bytes</i>     | (Optional) Output bytes       |
| <i>loop_out_underruns</i> | (Optional) Output underruns   |

|                                  |   |
|----------------------------------|---|
| <i>loop_out_errors</i>           | (Optional) Output errors                      |
| <i>loop_out_collisions</i>       | (Optional) Output collisions                  |
| <i>loop_out_fifo</i>             | (Optional) Output fifo                        |
| <i>loop_out_carriers</i>         | (Optional) Output carrier errors              |
| <i>eth_load_interval1_rx</i>     | (Optional) interval 1 timer value in sec      |
| <i>eth_inrate1_bits</i>          | (Optional) interval 1 input rate bits/sec     |
| <i>eth_inrate1_pkts</i>          | (Optional) interval 1 input rate pkts/sec     |
| <i>eth_load_interval1_tx</i>     | (Optional) interval 1 timer value in sec      |
| <i>eth_outrate1_bits</i>         | (Optional) interval 1 output rate bits/sec    |
| <i>eth_outrate1_pkts</i>         | (Optional) interval 1 output rate pkts/sec    |
| <i>eth_inrate1_summary_bits</i>  | (Optional) interval 1 input rate bit summary  |
| <i>eth_inrate1_summary_pkts</i>  | (Optional) interval 1 input rate pkt summary  |
| <i>eth_outrate1_summary_bits</i> | (Optional) interval 1 output rate bit summary |
| <i>eth_outrate1_summary_pkts</i> | (Optional) interval 1 output rate pkt summary |
| <i>eth_load_interval2_rx</i>     | (Optional) interval 2 timer value in sec      |
| <i>eth_inrate2_bits</i>          | (Optional) interval 2 input rate bits/sec     |
| <i>eth_inrate2_pkts</i>          | (Optional) interval 2 input rate pkts/sec     |
| <i>eth_load_interval2_tx</i>     | (Optional) interval 2 timer value in sec      |
| <i>eth_outrate2_bits</i>         | (Optional) interval 2 output rate bits/sec    |
| <i>eth_outrate2_pkts</i>         | (Optional) interval 2 output rate pkts/sec    |
| <i>eth_inrate2_summary_bits</i>  | (Optional) interval 2 input rate bit summary  |
| <i>eth_inrate2_summary_pkts</i>  | (Optional) interval 2 input rate pkt summary  |
| <i>eth_outrate2_summary_bits</i> | (Optional) interval 2 output rate bit summary |
| <i>eth_outrate2_summary_pkts</i> | (Optional) interval 2 output rate pkt summary |
| <i>eth_load_interval3_rx</i>     | (Optional) interval 3 timer value in sec      |
| <i>eth_inrate3_bits</i>          | (Optional) interval 3 input rate bits/sec     |
| <i>eth_inrate3_pkts</i>          | (Optional) interval 3 input rate pkts/sec     |
| <i>eth_load_interval3_tx</i>     | (Optional) interval 3 timer value in sec      |
| <i>eth_outrate3_bits</i>         | (Optional) interval 3 output rate bits/sec    |

|                                  |   |
|----------------------------------|---|
| <i>eth_outrate3_pkts</i>         | (Optional) interval 3 output rate pkts/sec        |
| <i>eth_inrate3_summary_bits</i>  | (Optional) interval 3 input rate bit summary      |
| <i>eth_inrate3_summary_pkts</i>  | (Optional) interval 3 input rate pkt summary      |
| <i>eth_outrate3_summary_bits</i> | (Optional) interval 3 output rate bit summary     |
| <i>eth_outrate3_summary_pkts</i> | (Optional) interval 3 output rate pkt summary     |
| <i>eth_inpkts</i>                | (Optional) Packets input                          |
| <i>eth_inucast</i>               | (Optional) Unicasts                               |
| <i>eth_inmcast</i>               | (Optional) Multicasts                             |
| <i>eth_inbcast</i>               | (Optional) Broadcasts                             |
| <i>eth_ingiants</i>              | (Optional) giants                                 |
| <i>eth_inbytes</i>               | (Optional) Bytes input                            |
| <i>eth_storm_supp</i>            | (Optional) storm suppression                      |
| <i>eth_inb64</i>                 | (Optional) input pkts between 0 and 64 bytes      |
| <i>eth_inb65_127</i>             | (Optional) input pkts between 65 and 127 bytes    |
| <i>eth_inb128_255</i>            | (Optional) input pkts between 128 and 255 bytes   |
| <i>eth_inb256_511</i>            | (Optional) input pkts between 256 and 511 bytes   |
| <i>eth_inb512_1023</i>           | (Optional) input pkts between 512 and 1023 bytes  |
| <i>eth_inb1024_1518</i>          | (Optional) input pkts between 1024 and 1518 bytes |
| <i>eth_inb1519_1548</i>          | (Optional) input pkts between 1519 and 1548 bytes |
| <i>eth_intrunk</i>               | (Optional) input trunk pkts                       |
| <i>eth_outpkts</i>               | (Optional) packets output                         |
| <i>eth_outucast</i>              | (Optional) Unicasts                               |
| <i>eth_outmcast</i>              | (Optional) Multicasts                             |
| <i>eth_outbcast</i>              | (Optional) Broadcasts                             |
| <i>eth_outgiants</i>             | (Optional) giants                                 |
| <i>eth_outbytes</i>              | (Optional) bytes output                           |
| <i>eth_outb64</i>                | (Optional) output pkts between 0 and 64 bytes     |
| <i>eth_outb65_127</i>            | (Optional) output pkts between 65 and 127 bytes   |
| <i>eth_outb128_255</i>           | (Optional) output pkts between 128 and 255 bytes  |

|                            |  |
|----------------------------|--|
| <i>eth_outb256_511</i>     | (Optional) output pkts between 256 and 511 bytes   |
| <i>eth_outb512_1023</i>    | (Optional) output pkts between 512 and 1023 bytes  |
| <i>eth_outb1024_1518</i>   | (Optional) output pkts between 1024 and 1518 bytes |
| <i>eth_outb1519_1548</i>   | (Optional) output pkts between 1519 and 1548 bytes |
| <i>eth_outtrunk</i>        | (Optional) output trunk pkts                       |
| <i>eth_nobuf</i>           | (Optional) No buffer received                      |
| <i>eth_runts</i>           | (Optional) runts                                   |
| <i>eth_crc</i>             | (Optional) CRC                                     |
| <i>eth_ecc</i>             | (Optional) ECC                                     |
| <i>eth_overrun</i>         | (Optional) overrun                                 |
| <i>eth_underrun</i>        | (Optional) underruns                               |
| <i>eth_ignored</i>         | (Optional) ignored                                 |
| <i>eth_bad_eth</i>         | (Optional) bad ether type drop                     |
| <i>eth_bad_proto</i>       | (Optional) bad protocol drops                      |
| <i>eth_in_ifdown_drops</i> | (Optional) Input if-down drops                     |
| <i>eth_coll</i>            | (Optional) collisions                              |
| <i>eth_latecoll</i>        | (Optional) late collision                          |
| <i>eth_lostcarrier</i>     | (Optional) lost carrier                            |
| <i>eth_nocarrier</i>       | (Optional) no carrier                              |
| <i>eth_babbles</i>         | (Optional) babbles                                 |
| <i>eth_watchdog</i>        | (Optional) watchdog                                |
| <i>eth_dribble</i>         | (Optional) input packets with dribble condition    |
| <i>eth_inerr</i>           | (Optional) input errors                            |
| <i>eth_outerr</i>          | (Optional) output errors                           |
| <i>eth_deferred</i>        | (Optional) deferred                                |
| <i>eth_jabbers</i>         | (Optional) jabbers                                 |
| <i>eth_shortframe</i>      | (Optional) short frames                            |
| <i>eth_single_coll</i>     | (Optional) single collisions                       |
| <i>eth_multi_coll</i>      | (Optional) multi collisions                        |

|                            |                                       |
|----------------------------|---------------------------------------|
| <i>eth_excess_coll</i>     | (Optional) excessive collisions       |
| <i>eth_indiscard</i>       | (Optional) discards                   |
| <i>eth_bad_encap</i>       | (Optional) bad encapsulation          |
| <i>eth_outcrc</i>          | (Optional) Output CRC                 |
| <i>eth_symbol</i>          | (Optional) symbol errors              |
| <i>eth_out_drops</i>       | (Optional) output drops               |
| <i>eth_bpdu_outlost</i>    | (Optional) BPDU output lost           |
| <i>eth_cos0_outlost</i>    | (Optional) output pkts                |
| <i>eth_cos1_outlost</i>    | (Optional) output pkts                |
| <i>eth_cos2_outlost</i>    | (Optional) output pkts                |
| <i>eth_cos3_outlost</i>    | (Optional) output pkts                |
| <i>eth_cos4_outlost</i>    | (Optional) output pkts                |
| <i>eth_cos5_outlost</i>    | (Optional) output pkts                |
| <i>eth_cos6_outlost</i>    | (Optional) output pkts                |
| <i>eth_cos7_outlost</i>    | (Optional) output pkts                |
| <i>eth_inpause</i>         | (Optional) pause input                |
| <i>eth_outpause</i>        | (Optional) PAUSE output               |
| <i>eth_resets</i>          | (Optional) interface resets           |
| <i>eth_sqetest</i>         | (Optional) SQE test                   |
| <i>eth_l2_ucastpkts</i>    | (Optional) L2 switched ucast pkts     |
| <i>eth_l2_ucastbytes</i>   | (Optional) L2 switched ucast bytes    |
| <i>eth_l2_mcastpkts</i>    | (Optional) L2 switched mcast pkts     |
| <i>eth_l2_mcastbytes</i>   | (Optional) L2 switched mcast bytes    |
| <i>eth_l2_bcastpkts</i>    | (Optional) L2 switched bcast pkts     |
| <i>eth_l2_bcastbytes</i>   | (Optional) L2 switched bcast bytes    |
| <i>eth_l3in_ucastpkts</i>  | (Optional) L3 in switched ucast pkts  |
| <i>eth_l3in_ucastbytes</i> | (Optional) L3 in switched ucast bytes |
| <i>eth_l3in_mcastpkts</i>  | (Optional) L3 in switched mcast pkts  |
| <i>eth_l3in_mcastbytes</i> | (Optional) L3 in switched mcast bytes |



|                               |  |
|-------------------------------|--|
| <i>eth_l3in_bcastpkts</i>     | (Optional) L3 in switched bcast pkts                     |
| <i>eth_l3in_bcastbytes</i>    | (Optional) L3 in switched bcast bytes                    |
| <i>eth_l3out_ucastpkts</i>    | (Optional) L3 out switched ucast pkts                    |
| <i>eth_l3out_ucastbytes</i>   | (Optional) L3 out switched ucast bytes                   |
| <i>eth_l3out_mcastpkts</i>    | (Optional) L3 out switched mcast pkts                    |
| <i>eth_l3out_mcastbytes</i>   | (Optional) L3 out switched mcast bytes                   |
| <i>eth_l3out_bcastpkts</i>    | (Optional) L3 out switched bcast pkts                    |
| <i>eth_l3out_bcastbytes</i>   | (Optional) L3 out switched bcast bytes                   |
| <i>eth_l3in_routed_pkts</i>   | (Optional) L3 in routed pkts                             |
| <i>eth_l3in_routed_bytes</i>  | (Optional) L3 in routed bytes                            |
| <i>eth_l3out_routed_pkts</i>  | (Optional) L3 out routed pkts                            |
| <i>eth_l3out_routed_bytes</i> | (Optional) L3 out routed bytes                           |
| <i>eth_l3avg1_inbytes</i>     | (Optional) Load interval 1 L3 average in switched bytes  |
| <i>eth_l3avg1_inpkts</i>      | (Optional) Load interval 1 L3 average in switched pkts   |
| <i>eth_l3avg1_outbytes</i>    | (Optional) Load interval 1 L3 average out switched bytes |
| <i>eth_l3avg1_outpkts</i>     | (Optional) Load interval 1 L3 average out switched pkts  |
| <i>eth_ipmcast</i>            | (Optional) IP multicast                                  |
| <i>eth_inhw_switched</i>      | (Optional) Input H/W Switched                            |
| <i>eth_insw_switched</i>      | (Optional) Input S/W Switched                            |
| <i>eth_throtles</i>           | (Optional) throttles                                     |
| <i>eth_frame</i>              | (Optional) frame   |
| <i>eth_outhw_switched</i>     | (Optional) Out H/W Switched                              |
| <i>eth_outsw_switched</i>     | (Optional) Out S/W Switched                              |
| <i>eth_buffail</i>            | (Optional) output buffer failures                        |
| <i>eth_bufswapped</i>         | (Optional) output buffers swapped out                    |
| <i>eth_arpdrops</i>           | (Optional) arp drops                                     |
| <i>eth_out_ifdown_drops</i>   | (Optional) Output if-down drops                          |
| <i>eth_fcoe_in_pkts</i>       | (Optional) fcoe in pkts                                  |
| <i>eth_fcoe_in_octets</i>     | (Optional) fcoe in octets                                |

|                                   |  |
|-----------------------------------|--|
| <i>eth_fcoe_out_pkts</i>          | (Optional) fcoe out pkts                 |
| <i>eth_fcoe_out_octets</i>        | (Optional) fcoe out octets               |
| <i>eth_nfcoe_in_pkts</i>          | (Optional) nfcoe in pkts                 |
| <i>eth_nfcoe_in_octets</i>        | (Optional) nfcoe in octets               |
| <i>eth_nfcoe_out_pkts</i>         | (Optional) nfcoe out pkts                |
| <i>eth_nfcoe_out_octets</i>       | (Optional) nfcoe out octets              |
| <i>svi_time_last_cleared</i>      | (Optional) Time last cleared             |
| <i>svi_tx_load</i>                | (Optional) Tx Load                       |
| <i>svi_rx_load</i>                | (Optional) Rx Load                       |
| <i>svi_reliability</i>            | (Optional) Reliability                   |
| <i>input_rate_bit_per_sec</i>     | (Optional) Input rate bits per second    |
| <i>input_rate_bytes_per_sec</i>   | (Optional) Input rate bytes per second   |
| <i>input_rate_frames_per_sec</i>  | (Optional) Input rate frames per second  |
| <i>output_rate_bit_per_sec</i>    | (Optional) Output rate bits per second   |
| <i>output_rate_bytes_per_sec</i>  | (Optional) Output rate bytes per second  |
| <i>output_rate_frames_per_sec</i> | (Optional) Output rate frames per second |
| <i>in_frames</i>                  | (Optional) Frames                        |
| <i>in_bytes</i>                   | (Optional) Bytes                         |
| <i>class_2_in_frames</i>          | (Optional) Class 2 frames                |
| <i>class_2_in_bytes</i>           | (Optional) Class 2 bytes                 |
| <i>class_3_in_frames</i>          | (Optional) Class 3 frames                |
| <i>class_3_in_bytes</i>           | (Optional) Class 3 bytes                 |
| <i>class_f_in_frames</i>          | (Optional) Class f frames                |
| <i>class_f_in_bytes</i>           | (Optional) Class f bytes                 |
| <i>class_2_3_in_frames</i>        | (Optional) Class 2/3 Frames              |
| <i>in_discards</i>                | (Optional) Discards                      |
| <i>in_errors</i>                  | (Optional) Errors                        |
| <i>in_crc_fcs</i>                 | (Optional) CRC/FCS                       |
| <i>in_unknown_class</i>           | (Optional) Unknown Class                 |

|                             |                              |
|-----------------------------|------------------------------|
| <i>in_too_long</i>          | (Optional) Frames too long   |
| <i>in_too_short</i>         | (Optional) Frames too short  |
| <i>out_frames</i>           | (Optional) Frames            |
| <i>out_bytes</i>            | (Optional) Bytes             |
| <i>class_2_out_frames</i>   | (Optional) Class 2 frames    |
| <i>class_2_out_bytes</i>    | (Optional) Class 2 bytes     |
| <i>class_3_out_frames</i>   | (Optional) Class 3 frames    |
| <i>class_3_out_bytes</i>    | (Optional) Class 3 bytes     |
| <i>class_f_out_frames</i>   | (Optional) Class f frames    |
| <i>class_f_out_bytes</i>    | (Optional) Class f bytes     |
| <i>class_2_3_out_frames</i> | (Optional) Class 2/3 frames  |
| <i>out_discards</i>         | (Optional) Discards          |
| <i>out_errors</i>           | (Optional) Errors            |
| <i>out_crc_fcs</i>          | (Optional) CRC/FCS           |
| <i>timeout_discards</i>     | (Optional) Timeout Discards  |
| <i>credit_loss</i>          | (Optional) Credit Loss       |
| <i>input_ols</i>            | (Optional) input ols         |
| <i>input_lrr</i>            | (Optional) input LRR         |
| <i>input_nos</i>            | (Optional) input NOS         |
| <i>input_loop_inits</i>     | (Optional) input loop inits  |
| <i>output_ols</i>           | (Optional) output OLS        |
| <i>output_lrr</i>           | (Optional) output LRR        |
| <i>output_nos</i>           | (Optional) output NOS        |
| <i>output_loop_inits</i>    | (Optional) output loop inits |
| <i>link_faliures</i>        | (Optional) link faliures     |
| <i>sync_loss</i>            | (Optional) Sync loss         |
| <i>signal_loss</i>          | (Optional) Signal loss       |
| <i>b2b_transmit</i>         | (Optional) B2B transmit      |
| <i>b2b_receive</i>          | (Optional) B2B receive       |

|                                |  |
|--------------------------------|--|
| <i>txwait</i>                  | (Optional) TxWait                            |
| <i>tx_credit_unavbl</i>        | (Optional) Tx credit unavaliable             |
| <i>b2b_receive_remain</i>      | (Optional) B2B receive remain                |
| <i>b2b_transmit_remain</i>     | (Optional) B2B transmit remain               |
| <i>low_priority_b2b_remain</i> | (Optional) Low priority B2B credit remaining |
| <i>off_seq_err_rcvd</i>        | (Optional) Offset Sequence Error Received    |
| <i>broadcast_frames</i>        | (Optional) Broadcast frames                  |
| <i>errors</i>                  | (Optional) Errors                            |
| <i>queue_drops</i>             | (Optional) Queue drops                       |
| <i>if_down_drops</i>           | (Optional) If down drops                     |
| <i>red_drops</i>               | (Optional) Red drops                         |
| <i>bad_ether_type_drops</i>    | (Optional) Bad ether type drops              |
| <i>bad_protocol_drops</i>      | (Optional) Bad Protocol Drops                |
| <i>arp_drops</i>               | (Optional) Arp Drops                         |
| <i>timestamp_error</i>         | (Optional) Timestamp Error                   |
| <i>reass_frames</i>            | (Optional) Reass Frames                      |
| <i>rx_b2b_perf_buff</i>        | (Optional) RX B2B performance buffer         |
| <i>rx_b2b_credit</i>           | (Optional) RX B2B credit remaining           |
| <i>tx_b2b_credit</i>           | (Optional) TX B2B credit remaining           |
| <i>tx_b2b_low_pri_cre</i>      | (Optional) TX B2B low priority Credit        |
| <i>time_last_cleared</i>       | (Optional) Last time cleared                 |

**Command Mode**

- /exec

## show interface counters detailed

```
show interface <ifmgmt_ctr_dtl> counters detailed [ __readonly__ TABLE_interface <interface> [
<vdc_lvl_in_pkts> ] [ <vdc_lvl_in_bytes> ] [ <vdc_lvl_in_ucast> ] [ <vdc_lvl_in_mcast> ] [
<vdc_lvl_in_bcast> ] [ <vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [ <vdc_lvl_in_avg_pkts> ] [
<vdc_lvl_in_avg_bytes> ] [ <vdc_lvl_out_pkts> ] [ <vdc_lvl_out_bytes> ] [ <vdc_lvl_out_ucast> ] [
<vdc_lvl_out_mcast> ] [ <vdc_lvl_out_bcast> ] [ <vdc_lvl_out_bps> ] [ <vdc_lvl_out_pps> ] [
<vdc_lvl_out_avg_pkts> ] [ <vdc_lvl_out_avg_bytes> ] [ <mgmt_in_pkts> ] [ <mgmt_in_bytes> ] [
<mgmt_in_mcast> ] [ <mgmt_in_compressed> ] [ <mgmt_in_errors> ] [ <mgmt_in_frame> ] [
<mgmt_in_overrun> ] [ <mgmt_in_fifo> ] [ <mgmt_out_pkts> ] [ <mgmt_out_bytes> ] [
<mgmt_out_underruns> ] [ <mgmt_out_errors> ] [ <mgmt_out_collisions> ] [ <mgmt_out_fifo> ] [
<mgmt_out_carrier> ] [ <mgmt_align_err> ] [ <mgmt_fcs_err> ] [ <mgmt_xmit_err> ] [ <mgmt_rcv_err> ] [
<mgmt_undersize> ] [ <mgmt_outdisc> ] [ <mgmt_single_col> ] [ <mgmt_multi_col> ] [ <mgmt_late_col> ] [
<mgmt_excess_col> ] [ <mgmt_carri_sen> ] [ <mgmt_runs> ] [ <mgmt_giants> ] [ <mgmt_sqetest_err> ] [
<mgmt_deferred_tx> ] [ <mgmt_inmactx_err> ] [ <mgmt_inmacrx_err> ] [ <mgmt_symbol_err> ] ]
```

### Syntax Description

|                             |   |
|-----------------------------|---|
| show                        | Show running system information                       |
| interface                   | Show interface status and information                 |
| <i>ifmgmt_ctr_dtl</i>       | Enter interface type and number in module/slot format |
| counters                    | Show interface counters                               |
| detailed                    | Show only non-zero counters                           |
| <u>__readonly__</u>         | (Optional) Read Only                                  |
| <i>interface</i>            | (Optional) Interface index                            |
| TABLE_interface             | (Optional) show interface                             |
| <i>vdc_lvl_in_pkts</i>      | (Optional) VDC level input packets                    |
| <i>vdc_lvl_in_bytes</i>     | (Optional) VDC level input bytes                      |
| <i>vdc_lvl_in_ucast</i>     | (Optional) VDC level input unicast packets            |
| <i>vdc_lvl_in_mcast</i>     | (Optional) VDC level input multicast packets          |
| <i>vdc_lvl_in_bcast</i>     | (Optional) VDC level input broadcast packets          |
| <i>vdc_lvl_in_bps</i>       | (Optional) VDC level input bytes per second           |
| <i>vdc_lvl_in_pps</i>       | (Optional) VDC level input packets per second         |
| <i>vdc_lvl_in_avg_pkts</i>  | (Optional) VDC level average input packets            |
| <i>vdc_lvl_in_avg_bytes</i> | (Optional) VDC level average input bytes              |
| <i>vdc_lvl_out_pkts</i>     | (Optional) VDC level output packets                   |

|                              |  |
|------------------------------|--|
| <i>vdc_lvl_out_bytes</i>     | (Optional) VDC level output bytes              |
| <i>vdc_lvl_out_ucast</i>     | (Optional) VDC level output unicast packets    |
| <i>vdc_lvl_out_mcast</i>     | (Optional) VDC level output multicast packets  |
| <i>vdc_lvl_out_bcast</i>     | (Optional) VDC level output broadcast packets  |
| <i>vdc_lvl_out_bps</i>       | (Optional) VDC level output bytes per second   |
| <i>vdc_lvl_out_pps</i>       | (Optional) VDC level output packets per second |
| <i>vdc_lvl_out_avg_pkts</i>  | (Optional) VDC level average output packets    |
| <i>vdc_lvl_out_avg_bytes</i> | (Optional) VDC level average output bytes      |
| <i>mgmt_in_pkts</i>          | (Optional) Input packets                       |
| <i>mgmt_in_bytes</i>         | (Optional) Input bytes                         |
| <i>mgmt_in_mcast</i>         | (Optional) Input multicast frames              |
| <i>mgmt_in_compressed</i>    | (Optional) Input compressed                    |
| <i>mgmt_in_errors</i>        | (Optional) Input errors                        |
| <i>mgmt_in_frame</i>         | (Optional) Input frame errors                  |
| <i>mgmt_in_overrun</i>       | (Optional) Input overrun                       |
| <i>mgmt_in_fifo</i>          | (Optional) Input fifo                          |
| <i>mgmt_out_pkts</i>         | (Optional) Output packets                      |
| <i>mgmt_out_bytes</i>        | (Optional) Output bytes                        |
| <i>mgmt_out_underruns</i>    | (Optional) Output overruns                     |
| <i>mgmt_out_errors</i>       | (Optional) Output errors                       |
| <i>mgmt_out_collisions</i>   | (Optional) Output collisions                   |
| <i>mgmt_out_fifo</i>         | (Optional) Output fifo                         |
| <i>mgmt_out_carrier</i>      | (Optional) Output carrier errors               |
| <i>mgmt_align_err</i>        | (Optional) Align error                         |
| <i>mgmt_fcs_err</i>          | (Optional) FCS error                           |
| <i>mgmt_xmit_err</i>         | (Optional) Transmit error                      |
| <i>mgmt_rcv_err</i>          | (Optional) Receive error                       |
| <i>mgmt_undersize</i>        | (Optional) Undersize                           |
| <i>mgmt_outdisc</i>          | (Optional) Out discard                         |

|                         |                               |
|-------------------------|-------------------------------|
| <i>mgmt_single_col</i>  | (Optional) Single collision   |
| <i>mgmt_multi_col</i>   | (Optional) Multiple collision |
| <i>mgmt_late_col</i>    | (Optional) Late collision     |
| <i>mgmt_excess_col</i>  | (Optional) Excess collision   |
| <i>mgmt_carri_sen</i>   | (Optional) Carrier sense      |
| <i>mgmt_runts</i>       | (Optional) Runts              |
| <i>mgmt_giants</i>      | (Optional) Giants             |
| <i>mgmt_sqetest_err</i> | (Optional) SQETest error      |
| <i>mgmt_deferred_tx</i> | (Optional) Deferred tx        |
| <i>mgmt_inmactx_err</i> | (Optional) In MAC tx          |
| <i>mgmt_inmacrx_err</i> | (Optional) In MAC rx          |
| <i>mgmt_symbol_err</i>  | (Optional) Symbol error       |

**Command Mode**

- /exec

## show interface counters detailed

```
show interface <ifloop_ctr_dtl> counters detailed [ __readonly__ TABLE_interface <interface> [
<loop_in_pkts> ] [ <loop_in_bytes> ] [ <loop_in_mcast> ] [ <loop_in_compressed> ] [ <loop_in_errors> ]
[ <loop_in_frame> ] [ <loop_in_overrun> ] [ <loop_in_fifo> ] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [
<loop_out_underruns> ] [ <loop_out_errors> ] [ <loop_out_collisions> ] [ <loop_out_fifo> ] [
<loop_out_carriers> ] ]
```

### Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information                       |
| interface                  | Show interface status and information                 |
| <i>ifloop_ctr_dtl</i>      | Enter interface type and number in module/slot format |
| counters                   | Show interface counters                               |
| detailed                   | Show only non-zero counters                           |
| <i>__readonly__</i>        | (Optional) Read Only                                  |
| <i>interface</i>           | (Optional) Interface index                            |
| TABLE_interface            | (Optional) show interface                             |
| <i>loop_in_pkts</i>        | (Optional) Input packets                              |
| <i>loop_in_bytes</i>       | (Optional) Input bytes                                |
| <i>loop_in_mcast</i>       | (Optional) Input multicast                            |
| <i>loop_in_compressed</i>  | (Optional) Input compressed                           |
| <i>loop_in_errors</i>      | (Optional) Input errors                               |
| <i>loop_in_frame</i>       | (Optional) Input frame errors                         |
| <i>loop_in_overrun</i>     | (Optional) Input overrun                              |
| <i>loop_in_fifo</i>        | (Optional) Input fifo                                 |
| <i>loop_out_pkts</i>       | (Optional) Output packets                             |
| <i>loop_out_bytes</i>      | (Optional) Output bytes                               |
| <i>loop_out_underruns</i>  | (Optional) Output underruns                           |
| <i>loop_out_errors</i>     | (Optional) Output errors                              |
| <i>loop_out_collisions</i> | (Optional) Output collisions                          |
| <i>loop_out_fifo</i>       | (Optional) Output fifo                                |
| <i>loop_out_carriers</i>   | (Optional) Output carrier errors                      |



### Command Mode

- /exec

## show interface counters detailed

```
show interface <ifeth_ctr_dtl> counters detailed [ snmp ] [ __readonly__ TABLE_interface <interface> [
<eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [ <eth_load_interval1_tx> ] [
<eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits> ] [ <eth_inrate1_summary_pkts>
] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [ <eth_load_interval2_rx> ] [
<eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [ <eth_outrate2_bits> ] [
<eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts> ] [
<eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_pkts> ] [ <eth_inpkts> ] [ <eth_inucast> ] [
<eth_inmcast> ] [ <eth_inbcast> ] [ <eth_ingiants> ] [ <eth_inbytes> ] [ <eth_storm_supp> ] [ <eth_inb64>
] [ <eth_inb65_127> ] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [
<eth_inb1024_1518> ] [ <eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outpkts> ] [ <eth_outucast> ] [
<eth_outmcast> ] [ <eth_outbcast> ] [ <eth_outgiants> ] [ <eth_outbytes> ] [ <eth_outb64> ] [
<eth_outb65_127> ] [ <eth_outb128_255> ] [ <eth_outb256_511> ] [ <eth_outb512_1023> ] [
<eth_outb1024_1518> ] [ <eth_outb1519_1548> ] [ <eth_outtrunk> ] [ <eth_nobuf> ] [ <eth_runts> ] [
<eth_crc> ] [ <eth_ecc> ] [ <eth_overnun> ] [ <eth_underrun> ] [ <eth_ignored> ] [ <eth_bad_eth> ] [
<eth_bad_proto> ] [ <eth_in_ifdown_drops> ] [ <eth_coll> ] [ <eth_latecoll> ] [ <eth_lostcarrier> ] [
<eth_nocarrier> ] [ <eth_babbles> ] [ <eth_watchdog> ] [ <eth_dribble> ] [ <eth_inerr> ] [ <eth_outerr> ] [
<eth_deferred> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_single_coll> ] [ <eth_multi_coll> ] [
<eth_excess_coll> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [ <eth_outcrc> ] [ <eth_symbol> ] [
<eth_out_drops> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [ <eth_cos2_outlost>
] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost> ] [
<eth_cos7_outlost> ] [ <eth_inpause> ] [ <eth_outpause> ] [ <eth_resets> ] [ <eth_sqetest> ] [
<eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes> ] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [
<eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [ <eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [
<eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes> ] [ <eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [
<eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [ <eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [
<eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [
<eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [
<eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [
<eth_insw_switched> ] [ <eth_throtles> ] [ <eth_frame> ] [ <eth_outhw_switched> ] [ <eth_outsw_switched>
] [ <eth_buffail> ] [ <eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] ]
```

### Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information                       |
| interface            | Show interface status and information                 |
| <i>ifeth_ctr_dtl</i> | Enter interface type and number in module/slot format |
| counters             | Show interface counters                               |
| detailed             | Show only non-zero counters                           |
| snmp                 | (Optional) Show SNMP MIB values                       |
| __readonly__         | (Optional) Read Only                                  |

|                                  |   |
|----------------------------------|---|
| <i>interface</i>                 | (Optional) Interface index                    |
| TABLE <i>interface</i>           | (Optional) show interface                     |
| <i>eth_load_interval1_rx</i>     | (Optional) interval 1 timer value in sec      |
| <i>eth_inrate1_bits</i>          | (Optional) interval 1 input rate bits/sec     |
| <i>eth_inrate1_pkts</i>          | (Optional) interval 1 input rate pkts/sec     |
| <i>eth_load_interval1_tx</i>     | (Optional) interval 1 timer value in sec      |
| <i>eth_outrate1_bits</i>         | (Optional) interval 1 output rate bits/sec    |
| <i>eth_outrate1_pkts</i>         | (Optional) interval 1 output rate pkts/sec    |
| <i>eth_inrate1_summary_bits</i>  | (Optional) interval 1 input rate bit summary  |
| <i>eth_inrate1_summary_pkts</i>  | (Optional) interval 1 input rate pkt summary  |
| <i>eth_outrate1_summary_bits</i> | (Optional) interval 1 output rate bit summary |
| <i>eth_outrate1_summary_pkts</i> | (Optional) interval 1 output rate pkt summary |
| <i>eth_load_interval2_rx</i>     | (Optional) interval 2 timer value in sec      |
| <i>eth_inrate2_bits</i>          | (Optional) interval 2 input rate bits/sec     |
| <i>eth_inrate2_pkts</i>          | (Optional) interval 2 input rate pkts/sec     |
| <i>eth_load_interval2_tx</i>     | (Optional) interval 2 timer value in sec      |
| <i>eth_outrate2_bits</i>         | (Optional) interval 2 output rate bits/sec    |
| <i>eth_outrate2_pkts</i>         | (Optional) interval 2 output rate pkts/sec    |
| <i>eth_inrate2_summary_bits</i>  | (Optional) interval 2 input rate bit summary  |
| <i>eth_inrate2_summary_pkts</i>  | (Optional) interval 2 input rate pkt summary  |
| <i>eth_outrate2_summary_bits</i> | (Optional) interval 2 output rate bit summary |
| <i>eth_outrate2_summary_pkts</i> | (Optional) interval 2 output rate pkt summary |
| <i>eth_load_interval3_rx</i>     | (Optional) interval 3 timer value in sec      |
| <i>eth_inrate3_bits</i>          | (Optional) interval 3 input rate bits/sec     |
| <i>eth_inrate3_pkts</i>          | (Optional) interval 3 input rate pkts/sec     |
| <i>eth_load_interval3_tx</i>     | (Optional) interval 3 timer value in sec      |
| <i>eth_outrate3_bits</i>         | (Optional) interval 3 output rate bits/sec    |
| <i>eth_outrate3_pkts</i>         | (Optional) interval 3 output rate pkts/sec    |
| <i>eth_inrate3_summary_bits</i>  | (Optional) interval 3 input rate bit summary  |

|                                  |   |
|----------------------------------|---|
| <i>eth_inrate3_summary_pkts</i>  | (Optional) interval 3 input rate pkt summary      |
| <i>eth_outrate3_summary_bits</i> | (Optional) interval 3 output rate bit summary     |
| <i>eth_outrate3_summary_pkts</i> | (Optional) interval 3 output rate pkt summary     |
| <i>eth_inpkts</i>                | (Optional) Packets input                          |
| <i>eth_inucast</i>               | (Optional) Unicasts                               |
| <i>eth_inmcast</i>               | (Optional) Multicasts                             |
| <i>eth_inbcast</i>               | (Optional) Broadcasts                             |
| <i>eth_ingiants</i>              | (Optional) giants                                 |
| <i>eth_inbytes</i>               | (Optional) Bytes input                            |
| <i>eth_storm_supp</i>            | (Optional) storm suppression                      |
| <i>eth_inb64</i>                 | (Optional) input pkts between 0 and 64 bytes      |
| <i>eth_inb65_127</i>             | (Optional) input pkts between 65 and 127 bytes    |
| <i>eth_inb128_255</i>            | (Optional) input pkts between 128 and 255 bytes   |
| <i>eth_inb256_511</i>            | (Optional) input pkts between 256 and 511 bytes   |
| <i>eth_inb512_1023</i>           | (Optional) input pkts between 512 and 1023 bytes  |
| <i>eth_inb1024_1518</i>          | (Optional) input pkts between 1024 and 1518 bytes |
| <i>eth_inb1519_1548</i>          | (Optional) input pkts between 1519 and 1548 bytes |
| <i>eth_intrunk</i>               | (Optional) input trunk pkts                       |
| <i>eth_outpkts</i>               | (Optional) packets output                         |
| <i>eth_outucast</i>              | (Optional) Unicasts                               |
| <i>eth_outmcast</i>              | (Optional) Multicasts                             |
| <i>eth_outbcast</i>              | (Optional) Broadcasts                             |
| <i>eth_outgiants</i>             | (Optional) giants                                 |
| <i>eth_outbytes</i>              | (Optional) bytes output                           |
| <i>eth_outb64</i>                | (Optional) output pkts between 0 and 64 bytes     |
| <i>eth_outb65_127</i>            | (Optional) output pkts between 65 and 127 bytes   |
| <i>eth_outb128_255</i>           | (Optional) output pkts between 128 and 255 bytes  |
| <i>eth_outb256_511</i>           | (Optional) output pkts between 256 and 511 bytes  |
| <i>eth_outb512_1023</i>          | (Optional) output pkts between 512 and 1023 bytes |

|                            |  |
|----------------------------|--|
| <i>eth_outb1024_1518</i>   | (Optional) output pkts between 1024 and 1518 bytes |
| <i>eth_outb1519_1548</i>   | (Optional) output pkts between 1519 and 1548 bytes |
| <i>eth_outtrunk</i>        | (Optional) output trunk pkts                       |
| <i>eth_nobuf</i>           | (Optional) No buffer received                      |
| <i>eth_runts</i>           | (Optional) runts                                   |
| <i>eth_crc</i>             | (Optional) CRC                                     |
| <i>eth_ecc</i>             | (Optional) ECC                                     |
| <i>eth_overrun</i>         | (Optional) overrun                                 |
| <i>eth_underrun</i>        | (Optional) underruns                               |
| <i>eth_ignored</i>         | (Optional) ignored                                 |
| <i>eth_bad_eth</i>         | (Optional) bad ether type drop                     |
| <i>eth_bad_proto</i>       | (Optional) bad protocol drops                      |
| <i>eth_in_ifdown_drops</i> | (Optional) Input if-down drops                     |
| <i>eth_coll</i>            | (Optional) collisions                              |
| <i>eth_latecoll</i>        | (Optional) late collision                          |
| <i>eth_lostcarrier</i>     | (Optional) lost carrier                            |
| <i>eth_nocarrier</i>       | (Optional) no carrier                              |
| <i>eth_babbles</i>         | (Optional) babbles                                 |
| <i>eth_watchdog</i>        | (Optional) watchdog                                |
| <i>eth_dribble</i>         | (Optional) input packets with dribble condition    |
| <i>eth_inerr</i>           | (Optional) input errors                            |
| <i>eth_outerr</i>          | (Optional) output errors                           |
| <i>eth_deferred</i>        | (Optional) deferred                                |
| <i>eth_jabbers</i>         | (Optional) jabbers                                 |
| <i>eth_shortframe</i>      | (Optional) short frames                            |
| <i>eth_single_coll</i>     | (Optional) single collisions                       |
| <i>eth_multi_coll</i>      | (Optional) multi collisions                        |
| <i>eth_excess_coll</i>     | (Optional) excessive collisions                    |
| <i>eth_indiscard</i>       | (Optional) discards                                |

|                            |                                       |
|----------------------------|---------------------------------------|
| <i>eth_bad_encap</i>       | (Optional) bad encapsulation          |
| <i>eth_outcrc</i>          | (Optional) Output CRC                 |
| <i>eth_symbol</i>          | (Optional) symbol errors              |
| <i>eth_out_drops</i>       | (Optional) output drops               |
| <i>eth_bpdu_outlost</i>    | (Optional) BPDU output lost           |
| <i>eth_cos0_outlost</i>    | (Optional) output pkts                |
| <i>eth_cos1_outlost</i>    | (Optional) output pkts                |
| <i>eth_cos2_outlost</i>    | (Optional) output pkts                |
| <i>eth_cos3_outlost</i>    | (Optional) output pkts                |
| <i>eth_cos4_outlost</i>    | (Optional) output pkts                |
| <i>eth_cos5_outlost</i>    | (Optional) output pkts                |
| <i>eth_cos6_outlost</i>    | (Optional) output pkts                |
| <i>eth_cos7_outlost</i>    | (Optional) output pkts                |
| <i>eth_inpause</i>         | (Optional) pause input                |
| <i>eth_outpause</i>        | (Optional) PAUSE output               |
| <i>eth_resets</i>          | (Optional) interface resets           |
| <i>eth_sqetest</i>         | (Optional) SQE test                   |
| <i>eth_l2_ucastpkts</i>    | (Optional) L2 switched ucast pkts     |
| <i>eth_l2_ucastbytes</i>   | (Optional) L2 switched ucast bytes    |
| <i>eth_l2_mcastpkts</i>    | (Optional) L2 switched mcast pkts     |
| <i>eth_l2_mcastbytes</i>   | (Optional) L2 switched mcast bytes    |
| <i>eth_l2_bcastpkts</i>    | (Optional) L2 switched bcast pkts     |
| <i>eth_l2_bcastbytes</i>   | (Optional) L2 switched bcast bytes    |
| <i>eth_l3in_ucastpkts</i>  | (Optional) L3 in switched ucast pkts  |
| <i>eth_l3in_ucastbytes</i> | (Optional) L3 in switched ucast bytes |
| <i>eth_l3in_mcastpkts</i>  | (Optional) L3 in switched mcast pkts  |
| <i>eth_l3in_mcastbytes</i> | (Optional) L3 in switched mcast bytes |
| <i>eth_l3in_bcastpkts</i>  | (Optional) L3 in switched bcast pkts  |
| <i>eth_l3in_bcastbytes</i> | (Optional) L3 in switched bcast bytes |

|                               |  |
|-------------------------------|--|
| <i>eth_l3out_ucastpkts</i>    | (Optional) L3 out switched ucast pkts                    |
| <i>eth_l3out_ucastbytes</i>   | (Optional) L3 out switched ucast bytes                   |
| <i>eth_l3out_mcastpkts</i>    | (Optional) L3 out switched mcast pkts                    |
| <i>eth_l3out_mcastbytes</i>   | (Optional) L3 out switched mcast bytes                   |
| <i>eth_l3out_bcastpkts</i>    | (Optional) L3 out switched bcast pkts                    |
| <i>eth_l3out_bcastbytes</i>   | (Optional) L3 out switched bcast bytes                   |
| <i>eth_l3in_routed_pkts</i>   | (Optional) L3 in routed pkts                             |
| <i>eth_l3in_routed_bytes</i>  | (Optional) L3 in routed bytes                            |
| <i>eth_l3out_routed_pkts</i>  | (Optional) L3 out routed pkts                            |
| <i>eth_l3out_routed_bytes</i> | (Optional) L3 out routed bytes                           |
| <i>eth_l3avg1_inbytes</i>     | (Optional) Load interval 1 L3 average in switched bytes  |
| <i>eth_l3avg1_inpkts</i>      | (Optional) Load interval 1 L3 average in switched pkts   |
| <i>eth_l3avg1_outbytes</i>    | (Optional) Load interval 1 L3 average out switched bytes |
| <i>eth_l3avg1_outpkts</i>     | (Optional) Load interval 1 L3 average out switched pkts  |
| <i>eth_ipmcast</i>            | (Optional) IP multicast                                  |
| <i>eth_inhw_switched</i>      | (Optional) Input H/W Switched                            |
| <i>eth_insw_switched</i>      | (Optional) Input S/W Switched                            |
| <i>eth_throtles</i>           | (Optional) throttles                                     |
| <i>eth_frame</i>              | (Optional) frame   |
| <i>eth_outhw_switched</i>     | (Optional) Out H/W Switched                              |
| <i>eth_outsw_switched</i>     | (Optional) Out S/W Switched                              |
| <i>eth_buffail</i>            | (Optional) output buffer failures                        |
| <i>eth_bufswapped</i>         | (Optional) output buffers swapped out                    |
| <i>eth_arpdrops</i>           | (Optional) arp drops                                     |
| <i>eth_out_ifdown_drops</i>   | (Optional) Output if-down drops                          |

### Command Mode

- /exec

## show interface counters detailed all

```
show interface <ifeth_ctr_dtl_all> counters detailed all [ snmp ] [ __readonly__ TABLE interface <interface>
[ <rx_total_pkts> ] [ <tx_total_pkts> ] [ <rx_ucast_pkts> ] [ <rx_mcast_pkts> ] [ <rx_bcast_pkts> ] [
<rx_octets> ] [ <tx_ucast_pkts> ] [ <tx_mcast_pkts> ] [ <tx_bcast_pkts> ] [ <tx_octets> ] [
<rxtx_pkts_64octets> ] [ <rxtx_pkts_65_127octets> ] [ <rxtx_pkts_128_255octets> ] [
<rxtx_pkts_256_511octets> ] [ <rxtx_pkts_512_1023octets> ] [ <rxtx_pkts_1024_1518octets> ] [
<rxtx_pkts_1519_1548octets> ] [ <rx_trunk_frames> ] [ <tx_trunk_frames> ] [ <rx_drop_events> ] [
<rxtx_giants> ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [
<eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_inrate1_summary_bits> ]
[ <eth_inrate1_summary_pkts> ] [ <eth_outrate1_summary_bits> ] [ <eth_outrate1_summary_pkts> ] [
<eth_load_interval2_rx> ] [ <eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_load_interval2_tx> ] [
<eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_inrate2_summary_bits> ] [ <eth_inrate2_summary_pkts>
] [ <eth_outrate2_summary_bits> ] [ <eth_outrate2_summary_pkts> ] [ <eth_load_interval3_rx> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_load_interval3_tx> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_pkts> ] [ <eth_inrate3_summary_bits> ] [ <eth_inrate3_summary_pkts> ] [
<eth_outrate3_summary_bits> ] [ <eth_outrate3_summary_pkts> ] [ <eth_l2_ucastpkts> ] [ <eth_l2_ucastbytes>
] [ <eth_l2_mcastpkts> ] [ <eth_l2_mcastbytes> ] [ <eth_l2_bcastpkts> ] [ <eth_l2_bcastbytes> ] [
<eth_l3in_ucastpkts> ] [ <eth_l3in_ucastbytes> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_mcastbytes> ] [
<eth_l3in_bcastpkts> ] [ <eth_l3in_bcastbytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_ucastbytes> ] [
<eth_l3out_mcastpkts> ] [ <eth_l3out_mcastbytes> ] [ <eth_l3out_bcastpkts> ] [ <eth_l3out_bcastbytes> ] [
<eth_l3in_routed_pkts> ] [ <eth_l3in_routed_bytes> ] [ <eth_l3out_routed_pkts> ] [ <eth_l3out_routed_bytes>
] [ <eth_l3avg1_inbytes> ] [ <eth_l3avg1_inpkts> ] [ <eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [
<eth_l3avg2_inbytes> ] [ <eth_l3avg2_inpkts> ] [ <eth_l3avg2_outbytes> ] [ <eth_l3avg2_outpkts> ] [
<eth_l3avg3_inbytes> ] [ <eth_l3avg3_inpkts> ] [ <eth_l3avg3_outbytes> ] [ <eth_l3avg3_outpkts> ] [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_nobuf> ] [ <eth_inbcast> ] [ <eth_inmcast> ] [ <eth_inucast> ] [
<eth_ingiants> ] [ <eth_ipmcast> ] [ <eth_inhw_switched> ] [ <eth_insw_switched> ] [ <eth_runts> ] [
<eth_storm_supp> ] [ <eth_throtles> ] [ <eth_inerr> ] [ <eth_crc> ] [ <eth_ecc> ] [ <eth_frame> ] [
<eth_outrun> ] [ <eth_ignored> ] [ <eth_watchdog> ] [ <eth_outbcast> ] [ <eth_outmcast> ] [ <eth_outucast>
] [ <eth_outgiants> ] [ <eth_inpause> ] [ <eth_dribble> ] [ <eth_in_ifdown_drops> ] [ <eth_bad_eth> ] [
<eth_bad_proto> ] [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_underrun> ] [ <eth_outhw_switched> ] [
<eth_outsw_switched> ] [ <eth_outerr> ] [ <eth_coll> ] [ <eth_resets> ] [ <eth_babbles> ] [ <eth_latecoll> ]
[ <eth_deferred> ] [ <eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_outpause> ] [ <eth_buffail> ] [
<eth_bufswapped> ] [ <eth_arpdrops> ] [ <eth_out_ifdown_drops> ] [ <eth_single_coll> ] [ <eth_multi_coll>
] [ <eth_excess_coll> ] [ <eth_jabbers> ] [ <eth_shortframe> ] [ <eth_indiscard> ] [ <eth_bad_encap> ] [
<eth_outcrc> ] [ <eth_symbol> ] [ <eth_out_drops> ] [ <eth_sqetest> ] [ <eth_inb64> ] [ <eth_inb65_127>
] [ <eth_inb128_255> ] [ <eth_inb256_511> ] [ <eth_inb512_1023> ] [ <eth_inb1024_1518> ] [
<eth_inb1519_1548> ] [ <eth_intrunk> ] [ <eth_outb64> ] [ <eth_outb65_127> ] [ <eth_outb128_255> ] [
<eth_outb256_511> ] [ <eth_outb512_1023> ] [ <eth_outb1024_1518> ] [ <eth_outb1519_1548> ] [
<eth_outtrunk> ] [ <eth_bpdu_outlost> ] [ <eth_cos0_outlost> ] [ <eth_cos1_outlost> ] [ <eth_cos2_outlost>
] [ <eth_cos3_outlost> ] [ <eth_cos4_outlost> ] [ <eth_cos5_outlost> ] [ <eth_cos6_outlost> ] [
<eth_cos7_outlost> ] [ <eth_fcoe_in_pkts> ] [ <eth_fcoe_in_octets> ] [ <eth_fcoe_out_pkts> ] [
<eth_fcoe_out_octets> ] [ <eth_nfcoe_in_pkts> ] [ <eth_nfcoe_in_octets> ] [ <eth_nfcoe_out_pkts> ] [
<eth_nfcoe_out_octets> ] [ <eth_eee_atx_lpi_msec> ] [ <eth_eee_arcv_lpi_msec> ] [
<eth_eee_atx_lpi_transitions> ] [ <eth_eee_arcv_lpi_transitions> ] [ <eth_phy_ber_count> ] [
<eth_phy_errblks_count> ] ]
```

### Syntax Description

|      |                                 |
|------|---------------------------------|
| show | Show running system information |
|------|---------------------------------|



|                                  |   |
|----------------------------------|---|
| interface                        | Show interface status and information                 |
| <i>ifeth_ctr_dtl_all</i>         | Enter interface type and number in module/slot format |
| counters                         | Show interface counters                               |
| detailed                         | Show only non-zero counters                           |
| all                              | everything  |
| snmp                             | (Optional) Show SNMP MIB values                       |
| <i>__readonly__</i>              | (Optional) Read Only                                  |
| <i>interface</i>                 | (Optional) Interface index                            |
| TABLE_interface                  | (Optional) show interface                             |
| <i>rx_total_pkts</i>             | (Optional) total input packets                        |
| <i>tx_total_pkts</i>             | (Optional) total output packets                       |
| <i>rx_ucast_pkts</i>             | (Optional) input unicasts                             |
| <i>rx_mcast_pkts</i>             | (Optional) input multicasts                           |
| <i>rx_bcast_pkts</i>             | (Optional) input broadcasts                           |
| <i>rx_octets</i>                 | (Optional) input bytes                                |
| <i>tx_ucast_pkts</i>             | (Optional) output unicasts                            |
| <i>tx_mcast_pkts</i>             | (Optional) output multicasts                          |
| <i>tx_bcast_pkts</i>             | (Optional) output broadcasts                          |
| <i>tx_octets</i>                 | (Optional) output bytes                               |
| <i>rctx_pkts_64octets</i>        | (Optional) all pkts between 0 and 64 bytes            |
| <i>rctx_pkts_65_127octets</i>    | (Optional) all pkts between 65 and 127 bytes          |
| <i>rctx_pkts_128_255octets</i>   | (Optional) all pkts between 128 and 255 bytes         |
| <i>rctx_pkts_256_511octets</i>   | (Optional) all pkts between 256 and 511 bytes         |
| <i>rctx_pkts_512_1023octets</i>  | (Optional) all pkts between 512 and 1023 bytes        |
| <i>rctx_pkts_1024_1518octets</i> | (Optional) all pkts between 1024 and 1518 bytes       |
| <i>rctx_pkts_1519_1548octets</i> | (Optional) all pkts between 1519 and 1548 bytes       |
| <i>rx_trunk_frames</i>           | (Optional) input trunk pkts                           |
| <i>tx_trunk_frames</i>           | (Optional) output trunk pkts                          |
| <i>rx_drop_events</i>            | (Optional) dropped pkts                               |

|                                  |   |
|----------------------------------|---|
| <i>rxtx_giants</i>               | (Optional) giants                             |
| <i>eth_load_interval1_rx</i>     | (Optional) interval 1 timer value in sec      |
| <i>eth_inrate1_bits</i>          | (Optional) interval 1 input rate bits/sec     |
| <i>eth_inrate1_pkts</i>          | (Optional) interval 1 input rate pkts/sec     |
| <i>eth_load_interval1_tx</i>     | (Optional) interval 1 timer value in sec      |
| <i>eth_outrate1_bits</i>         | (Optional) interval 1 output rate bits/sec    |
| <i>eth_outrate1_pkts</i>         | (Optional) interval 1 output rate pkts/sec    |
| <i>eth_inrate1_summary_bits</i>  | (Optional) interval 1 input rate bit summary  |
| <i>eth_inrate1_summary_pkts</i>  | (Optional) interval 1 input rate pkt summary  |
| <i>eth_outrate1_summary_bits</i> | (Optional) interval 1 output rate bit summary |
| <i>eth_outrate1_summary_pkts</i> | (Optional) interval 1 output rate pkt summary |
| <i>eth_load_interval2_rx</i>     | (Optional) interval 2 timer value in sec      |
| <i>eth_inrate2_bits</i>          | (Optional) interval 2 input rate bits/sec     |
| <i>eth_inrate2_pkts</i>          | (Optional) interval 2 input rate pkts/sec     |
| <i>eth_load_interval2_tx</i>     | (Optional) interval 2 timer value in sec      |
| <i>eth_outrate2_bits</i>         | (Optional) interval 2 output rate bits/sec    |
| <i>eth_outrate2_pkts</i>         | (Optional) interval 2 output rate pkts/sec    |
| <i>eth_inrate2_summary_bits</i>  | (Optional) interval 2 input rate bit summary  |
| <i>eth_inrate2_summary_pkts</i>  | (Optional) interval 2 input rate pkt summary  |
| <i>eth_outrate2_summary_bits</i> | (Optional) interval 2 output rate bit summary |
| <i>eth_outrate2_summary_pkts</i> | (Optional) interval 2 output rate pkt summary |
| <i>eth_load_interval3_rx</i>     | (Optional) interval 3 timer value in sec      |
| <i>eth_inrate3_bits</i>          | (Optional) interval 3 input rate bits/sec     |
| <i>eth_inrate3_pkts</i>          | (Optional) interval 3 input rate pkts/sec     |
| <i>eth_load_interval3_tx</i>     | (Optional) interval 3 timer value in sec      |
| <i>eth_outrate3_bits</i>         | (Optional) interval 3 output rate bits/sec    |
| <i>eth_outrate3_pkts</i>         | (Optional) interval 3 output rate pkts/sec    |
| <i>eth_inrate3_summary_bits</i>  | (Optional) interval 3 input rate bit summary  |
| <i>eth_inrate3_summary_pkts</i>  | (Optional) interval 3 input rate pkt summary  |

|                                  |  |
|----------------------------------|--|
| <i>eth_outrate3_summary_bits</i> | (Optional) interval 3 output rate bit summary            |
| <i>eth_outrate3_summary_pkts</i> | (Optional) interval 3 output rate pkt summary            |
| <i>eth_l2_ucastpkts</i>          | (Optional) L2 switched ucast pkts                        |
| <i>eth_l2_ucastbytes</i>         | (Optional) L2 switched ucast bytes                       |
| <i>eth_l2_mcastpkts</i>          | (Optional) L2 switched mcast pkts                        |
| <i>eth_l2_mcastbytes</i>         | (Optional) L2 switched mcast bytes                       |
| <i>eth_l2_bcastpkts</i>          | (Optional) L2 switched bcast pkts                        |
| <i>eth_l2_bcastbytes</i>         | (Optional) L2 switched bcast bytes                       |
| <i>eth_l3in_ucastpkts</i>        | (Optional) IPv4 L3 in switched ucast pkts                |
| <i>eth_l3in_ucastbytes</i>       | (Optional) IPv4 L3 in switched ucast bytes               |
| <i>eth_l3in_mcastpkts</i>        | (Optional) IPv4 L3 in switched mcast pkts                |
| <i>eth_l3in_mcastbytes</i>       | (Optional) IPv4 L3 in switched mcast bytes               |
| <i>eth_l3in_bcastpkts</i>        | (Optional) L3 in switched bcast pkts                     |
| <i>eth_l3in_bcastbytes</i>       | (Optional) L3 in switched bcast bytes                    |
| <i>eth_l3out_ucastpkts</i>       | (Optional) IPv4 L3 out switched ucast pkts               |
| <i>eth_l3out_ucastbytes</i>      | (Optional) IPv4 L3 out switched ucast bytes              |
| <i>eth_l3out_mcastpkts</i>       | (Optional) IPv4 L3 out switched mcast pkts               |
| <i>eth_l3out_mcastbytes</i>      | (Optional) IPv4 L3 out switched mcast bytes              |
| <i>eth_l3out_bcastpkts</i>       | (Optional) L3 out switched bcast pkts                    |
| <i>eth_l3out_bcastbytes</i>      | (Optional) L3 out switched bcast bytes                   |
| <i>eth_l3in_routed_pkts</i>      | (Optional) L3 in routed pkts                             |
| <i>eth_l3in_routed_bytes</i>     | (Optional) L3 in routed bytes                            |
| <i>eth_l3out_routed_pkts</i>     | (Optional) L3 out routed pkts                            |
| <i>eth_l3out_routed_bytes</i>    | (Optional) L3 out routed bytes                           |
| <i>eth_l3avg1_inbytes</i>        | (Optional) Load interval 1 L3 average in switched bytes  |
| <i>eth_l3avg1_inpkts</i>         | (Optional) Load interval 1 L3 average in switched pkts   |
| <i>eth_l3avg1_outbytes</i>       | (Optional) Load interval 1 L3 average out switched bytes |
| <i>eth_l3avg1_outpkts</i>        | (Optional) Load interval 1 L3 average out switched pkts  |
| <i>eth_l3avg2_inbytes</i>        | (Optional) Load interval 2 L3 average in switched bytes  |

|                            |  |
|----------------------------|--|
| <i>eth_l3avg2_inpkts</i>   | (Optional) Load interval 2 L3 average in switched pkts   |
| <i>eth_l3avg2_outbytes</i> | (Optional) Load interval 2 L3 average out switched bytes |
| <i>eth_l3avg2_outpkts</i>  | (Optional) Load interval 2 L3 average out switched pkts  |
| <i>eth_l3avg3_inbytes</i>  | (Optional) Load interval 3 L3 average in switched bytes  |
| <i>eth_l3avg3_inpkts</i>   | (Optional) Load interval 3 L3 average in switched pkts   |
| <i>eth_l3avg3_outbytes</i> | (Optional) Load interval 3 L3 average out switched bytes |
| <i>eth_l3avg3_outpkts</i>  | (Optional) Load interval 3 L3 average out switched pkts  |
| <i>eth_inpkts</i>          | (Optional) Packets input                                 |
| <i>eth_inbytes</i>         | (Optional) Bytes input                                   |
| <i>eth_nobuf</i>           | (Optional) No buffer received                            |
| <i>eth_inbcast</i>         | (Optional) Broadcasts                                    |
| <i>eth_inmcast</i>         | (Optional) Multicasts                                    |
| <i>eth_inucast</i>         | (Optional) Unicasts                                      |
| <i>eth_ingiants</i>        | (Optional) giants  |
| <i>eth_ipmcast</i>         | (Optional) IP multicast                                  |
| <i>eth_inhw_switched</i>   | (Optional) Input H/W Switched                            |
| <i>eth_insw_switched</i>   | (Optional) Input S/W Switched                            |
| <i>eth_runts</i>           | (Optional) runts   |
| <i>eth_storm_supp</i>      | (Optional) storm suppression                             |
| <i>eth_throtles</i>        | (Optional) throttles                                     |
| <i>eth_inerr</i>           | (Optional) input errors                                  |
| <i>eth_crc</i>             | (Optional) CRC   |
| <i>eth_ecc</i>             | (Optional) ECC   |
| <i>eth_frame</i>           | (Optional) frame   |
| <i>eth_overrun</i>         | (Optional) overrun                                       |
| <i>eth_ignored</i>         | (Optional) ignored                                       |
| <i>eth_watchdog</i>        | (Optional) watchdog                                      |
| <i>eth_outbcast</i>        | (Optional) Broadcasts                                    |
| <i>eth_outmcast</i>        | (Optional) Multicasts                                    |

|                             |   |
|-----------------------------|---|
| <i>eth_outucast</i>         | (Optional) Unicasts                             |
| <i>eth_outgiants</i>        | (Optional) giants                               |
| <i>eth_inpause</i>          | (Optional) pause input                          |
| <i>eth_dribble</i>          | (Optional) input packets with dribble condition |
| <i>eth_in_ifdown_drops</i>  | (Optional) Input if-down drops                  |
| <i>eth_bad_eth</i>          | (Optional) bad ether type drop                  |
| <i>eth_bad_proto</i>        | (Optional) bad protocol drops                   |
| <i>eth_outpkts</i>          | (Optional) packets output                       |
| <i>eth_outbytes</i>         | (Optional) bytes output                         |
| <i>eth_underrun</i>         | (Optional) underruns                            |
| <i>eth_outhw_switched</i>   | (Optional) Out H/W Switched                     |
| <i>eth_outsw_switched</i>   | (Optional) Out S/W Switched                     |
| <i>eth_outerr</i>           | (Optional) output errors                        |
| <i>eth_coll</i>             | (Optional) collisions                           |
| <i>eth_resets</i>           | (Optional) interface resets                     |
| <i>eth_babbles</i>          | (Optional) babbles                              |
| <i>eth_latecoll</i>         | (Optional) late collision                       |
| <i>eth_deferred</i>         | (Optional) deferred                             |
| <i>eth_lostcarrier</i>      | (Optional) lost carrier                         |
| <i>eth_nocarrier</i>        | (Optional) no carrier                           |
| <i>eth_outpause</i>         | (Optional) PAUSE output                         |
| <i>eth_buffail</i>          | (Optional) output buffer failures               |
| <i>eth_bufswapped</i>       | (Optional) output buffers swapped out           |
| <i>eth_arpdrops</i>         | (Optional) arp drops                            |
| <i>eth_out_ifdown_drops</i> | (Optional) Output if-down drops                 |
| <i>eth_single_coll</i>      | (Optional) single collisions                    |
| <i>eth_multi_coll</i>       | (Optional) multi collisions                     |
| <i>eth_excess_coll</i>      | (Optional) excessive collisions                 |
| <i>eth_jabbers</i>          | (Optional) jabbers                              |

|                          |  |
|--------------------------|--|
| <i>eth_shortframe</i>    | (Optional) short frames                            |
| <i>eth_indiscard</i>     | (Optional) discards                                |
| <i>eth_bad_encap</i>     | (Optional) bad encapsulation                       |
| <i>eth_outcrc</i>        | (Optional) Output CRC                              |
| <i>eth_symbol</i>        | (Optional) symbol errors                           |
| <i>eth_out_drops</i>     | (Optional) output drops                            |
| <i>eth_sqetest</i>       | (Optional) SQE test                                |
| <i>eth_inb64</i>         | (Optional) input pkts between 0 and 64 bytes       |
| <i>eth_inb65_127</i>     | (Optional) input pkts between 65 and 127 bytes     |
| <i>eth_inb128_255</i>    | (Optional) input pkts between 128 and 255 bytes    |
| <i>eth_inb256_511</i>    | (Optional) input pkts between 256 and 511 bytes    |
| <i>eth_inb512_1023</i>   | (Optional) input pkts between 512 and 1023 bytes   |
| <i>eth_inb1024_1518</i>  | (Optional) input pkts between 1024 and 1518 bytes  |
| <i>eth_inb1519_1548</i>  | (Optional) input pkts between 1519 and 1548 bytes  |
| <i>eth_intrunk</i>       | (Optional) input trunk pkts                        |
| <i>eth_outb64</i>        | (Optional) output pkts between 0 and 64 bytes      |
| <i>eth_outb65_127</i>    | (Optional) output pkts between 65 and 127 bytes    |
| <i>eth_outb128_255</i>   | (Optional) output pkts between 128 and 255 bytes   |
| <i>eth_outb256_511</i>   | (Optional) output pkts between 256 and 511 bytes   |
| <i>eth_outb512_1023</i>  | (Optional) output pkts between 512 and 1023 bytes  |
| <i>eth_outb1024_1518</i> | (Optional) output pkts between 1024 and 1518 bytes |
| <i>eth_outb1519_1548</i> | (Optional) output pkts between 1519 and 1548 bytes |
| <i>eth_outtrunk</i>      | (Optional) output trunk pkts                       |
| <i>eth_bpdu_outlost</i>  | (Optional) BPDU output lost                        |
| <i>eth_cos0_outlost</i>  | (Optional) output pkts                             |
| <i>eth_cos1_outlost</i>  | (Optional) output pkts                             |
| <i>eth_cos2_outlost</i>  | (Optional) output pkts                             |
| <i>eth_cos3_outlost</i>  | (Optional) output pkts                             |
| <i>eth_cos4_outlost</i>  | (Optional) output pkts                             |

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| <i>eth_cos5_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos6_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos7_outlost</i>             | (Optional) output pkts            |
| <i>eth_fcoe_in_pkts</i>             | (Optional) fcoe in pkts           |
| <i>eth_fcoe_in_octets</i>           | (Optional) fcoe in octets         |
| <i>eth_fcoe_out_pkts</i>            | (Optional) fcoe out pkts          |
| <i>eth_fcoe_out_octets</i>          | (Optional) fcoe out octets        |
| <i>eth_nfcoe_in_pkts</i>            | (Optional) nfcoe in pkts          |
| <i>eth_nfcoe_in_octets</i>          | (Optional) nfcoe in octets        |
| <i>eth_nfcoe_out_pkts</i>           | (Optional) nfcoe out pkts         |
| <i>eth_nfcoe_out_octets</i>         | (Optional) nfcoe out octets       |
| <i>eth_eee_atx_lpi_msec</i>         | (Optional) Tx Lpi usec            |
| <i>eth_eee_arcv_lpi_msec</i>        | (Optional) Rx Lpi usec            |
| <i>eth_eee_atx_lpi_transitions</i>  | (Optional) Tx Lpi requests        |
| <i>eth_eee_arcv_lpi_transitions</i> | (Optional) Rx Lpi indications     |
| <i>eth_phy_ber_count</i>            | (Optional) Bit error rate counter |
| <i>eth_phy_errblks_count</i>        | (Optional) Errored blocks counter |

**Command Mode**

- /exec

# show interface counters detailed all

show interface <ifid\_ctr\_dtl\_all> counters detailed all [ snmp ]

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                       |
| interface               | Show interface status and information                 |
| <i>ifid_ctr_dtl_all</i> | Enter interface type and number in module/slot format |
| counters                | Show interface counters                               |
| detailed                | Show only non-zero counters                           |
| all                     | Show every interface counter                          |
| snmp                    | (Optional) Show SNMP MIB values                       |

## Command Mode

- /exec



## show interface counters detailed all

```
show interface <ifmgmt_ctr_dtl_all> counters detailed all [ __readonly__ TABLE_interface <interface> [
<vdc_lvl_in_pkts> ] [ <vdc_lvl_in_bytes> ] [ <vdc_lvl_in_ucast> ] [ <vdc_lvl_in_mcast> ] [
<vdc_lvl_in_bcast> ] [ <vdc_lvl_in_bps> ] [ <vdc_lvl_in_pps> ] [ <vdc_lvl_in_avg_pkts> ] [
<vdc_lvl_in_avg_bytes> ] [ <vdc_lvl_out_pkts> ] [ <vdc_lvl_out_bytes> ] [ <vdc_lvl_out_ucast> ] [
<vdc_lvl_out_mcast> ] [ <vdc_lvl_out_bcast> ] [ <vdc_lvl_out_bps> ] [ <vdc_lvl_out_pps> ] [
<vdc_lvl_out_avg_pkts> ] [ <vdc_lvl_out_avg_bytes> ] [ <mgmt_in_pkts> ] [ <mgmt_in_bytes> ] [
<mgmt_in_mcast> ] [ <mgmt_out_pkts> ] [ <mgmt_out_bytes> ] [ <mgmt_in_errors> ] [ <mgmt_out_errors> ]
] [ <mgmt_in_fifo> ] [ <mgmt_out_fifo> ] [ <mgmt_in_compressed> ] [ <mgmt_in_frame> ] [
<mgmt_in_overrun> ] [ <mgmt_out_underruns> ] [ <mgmt_out_collisions> ] [ <mgmt_out_carrier> ] [
<mgmt_align_err> ] [ <mgmt_fcs_err> ] [ <mgmt_xmit_err> ] [ <mgmt_rcv_err> ] [ <mgmt_undersize> ] [
<mgmt_outdisc> ] [ <mgmt_single_col> ] [ <mgmt_multi_col> ] [ <mgmt_late_col> ] [ <mgmt_excess_col> ]
] [ <mgmt_carri_sen> ] [ <mgmt_runs> ] [ <mgmt_giants> ] [ <mgmt_sqetest_err> ] [ <mgmt_deferred_tx> ]
] [ <mgmt_inmactx_err> ] [ <mgmt_inmacrx_err> ] [ <mgmt_symbol_err> ] ]
```

### Syntax Description

|                             |   |
|-----------------------------|---|
| show                        | Show running system information                       |
| interface                   | Show interface status and information                 |
| <i>ifmgmt_ctr_dtl_all</i>   | Enter interface type and number in module/slot format |
| counters                    | Show interface counters                               |
| detailed                    | Show only non-zero counters                           |
| all                         | Show every interface counter                          |
| <u>__readonly__</u>         | (Optional) Read Only                                  |
| <i>interface</i>            | (Optional) Interface index                            |
| TABLE_interface             | (Optional) show interface                             |
| <i>vdc_lvl_in_pkts</i>      | (Optional) VDC level input packets                    |
| <i>vdc_lvl_in_bytes</i>     | (Optional) VDC level input bytes                      |
| <i>vdc_lvl_in_ucast</i>     | (Optional) VDC level input unicast packets            |
| <i>vdc_lvl_in_mcast</i>     | (Optional) VDC level input multicast packets          |
| <i>vdc_lvl_in_bcast</i>     | (Optional) VDC level input broadcast packets          |
| <i>vdc_lvl_in_bps</i>       | (Optional) VDC level input bytes per second           |
| <i>vdc_lvl_in_pps</i>       | (Optional) VDC level input packets per second         |
| <i>vdc_lvl_in_avg_pkts</i>  | (Optional) VDC level average input packets            |
| <i>vdc_lvl_in_avg_bytes</i> | (Optional) VDC level average input bytes              |

|                              |  |
|------------------------------|--|
| <i>vdc_lvl_out_pkts</i>      | (Optional) VDC level output packets            |
| <i>vdc_lvl_out_bytes</i>     | (Optional) VDC level output bytes              |
| <i>vdc_lvl_out_ucast</i>     | (Optional) VDC level output unicast packets    |
| <i>vdc_lvl_out_mcast</i>     | (Optional) VDC level output multicast packets  |
| <i>vdc_lvl_out_bcast</i>     | (Optional) VDC level output broadcast packets  |
| <i>vdc_lvl_out_bps</i>       | (Optional) VDC level output bytes per second   |
| <i>vdc_lvl_out_pps</i>       | (Optional) VDC level output packets per second |
| <i>vdc_lvl_out_avg_pkts</i>  | (Optional) VDC level average output packets    |
| <i>vdc_lvl_out_avg_bytes</i> | (Optional) VDC level average output bytes      |
| <i>mgmt_in_pkts</i>          | (Optional) Input packets                       |
| <i>mgmt_in_bytes</i>         | (Optional) Input bytes                         |
| <i>mgmt_in_mcast</i>         | (Optional) Input multicast frames              |
| <i>mgmt_out_pkts</i>         | (Optional) Output packets                      |
| <i>mgmt_out_bytes</i>        | (Optional) Output bytes                        |
| <i>mgmt_in_errors</i>        | (Optional) Input errors                        |
| <i>mgmt_out_errors</i>       | (Optional) Output errors                       |
| <i>mgmt_in_fifo</i>          | (Optional) Input fifo                          |
| <i>mgmt_out_fifo</i>         | (Optional) Output fifo                         |
| <i>mgmt_in_compressed</i>    | (Optional) Input compressed                    |
| <i>mgmt_in_frame</i>         | (Optional) Input frame errors                  |
| <i>mgmt_in_overnrun</i>      | (Optional) Input overrun                       |
| <i>mgmt_out_underruns</i>    | (Optional) Output overruns                     |
| <i>mgmt_out_collisions</i>   | (Optional) Output collisions                   |
| <i>mgmt_out_carrier</i>      | (Optional) Output carrier errors               |
| <i>mgmt_align_err</i>        | (Optional) Align error                         |
| <i>mgmt_fcs_err</i>          | (Optional) FCS error                           |
| <i>mgmt_xmit_err</i>         | (Optional) Transmit error                      |
| <i>mgmt_rcv_err</i>          | (Optional) Receive error                       |
| <i>mgmt_undersize</i>        | (Optional) Undersize                           |

|                         |                               |
|-------------------------|-------------------------------|
| <i>mgmt_outdisc</i>     | (Optional) Out discard        |
| <i>mgmt_single_col</i>  | (Optional) Single collision   |
| <i>mgmt_multi_col</i>   | (Optional) Multiple collision |
| <i>mgmt_late_col</i>    | (Optional) Late collision     |
| <i>mgmt_excess_col</i>  | (Optional) Excess collision   |
| <i>mgmt_carri_sen</i>   | (Optional) Carrier sense      |
| <i>mgmt_runts</i>       | (Optional) Runts              |
| <i>mgmt_giants</i>      | (Optional) Giants             |
| <i>mgmt_sqetest_err</i> | (Optional) SQETest error      |
| <i>mgmt_deferred_tx</i> | (Optional) Deferred tx        |
| <i>mgmt_inmactx_err</i> | (Optional) In MAC tx          |
| <i>mgmt_inmacrx_err</i> | (Optional) In MAC rx          |
| <i>mgmt_symbol_err</i>  | (Optional) Symbol error       |

**Command Mode**

- /exec

## show interface counters detailed all

```
show interface <ifloop_ctr_dtl_all> counters detailed all [ __readonly__ TABLE_interface <interface> [
<rx_total_pkts> ] [ <tx_total_pkts> ] [ <rx_mcast_pkts> ] [ <rx_octets> ] [ <tx_octets> ] [ <loop_in_pkts> ]
[ <loop_in_bytes> ] [ <loop_in_mcast> ] [ <loop_in_compressed> ] [ <loop_in_errors> ] [ <loop_in_frame>
] [ <loop_in_overrun> ] [ <loop_in_fifo> ] [ <loop_out_pkts> ] [ <loop_out_bytes> ] [ <loop_out_underruns>
] [ <loop_out_errors> ] [ <loop_out_collisions> ] [ <loop_out_fifo> ] [ <loop_out_carriers> ] ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information                       |
| interface                 | Show interface status and information                 |
| <i>ifloop_ctr_dtl_all</i> | Enter interface type and number in module/slot format |
| counters                  | Show interface counters                               |
| detailed                  | Show only non-zero counters                           |
| all                       | Show every interface counter                          |
| <u>__readonly__</u>       | (Optional) Read Only                                  |
| <i>interface</i>          | (Optional) Interface index                            |
| TABLE_interface           | (Optional) show interface                             |
| <i>rx_total_pkts</i>      | (Optional) total input packets                        |
| <i>tx_total_pkts</i>      | (Optional) total output packets                       |
| <i>rx_mcast_pkts</i>      | (Optional) input multicasts                           |
| <i>rx_octets</i>          | (Optional) input bytes                                |
| <i>tx_octets</i>          | (Optional) output bytes                               |
| <i>loop_in_pkts</i>       | (Optional) Input packets                              |
| <i>loop_in_bytes</i>      | (Optional) Input bytes                                |
| <i>loop_in_mcast</i>      | (Optional) Input multicast                            |
| <i>loop_in_compressed</i> | (Optional) Input compressed                           |
| <i>loop_in_errors</i>     | (Optional) Input errors                               |
| <i>loop_in_frame</i>      | (Optional) Input frame errors                         |
| <i>loop_in_overrun</i>    | (Optional) Input overrun                              |
| <i>loop_in_fifo</i>       | (Optional) Input fifo                                 |
| <i>loop_out_pkts</i>      | (Optional) Output packets                             |

|                            |                                  |
|----------------------------|----------------------------------|
| <i>loop_out_bytes</i>      | (Optional) Output bytes          |
| <i>loop_out_underruns</i>  | (Optional) Output underruns      |
| <i>loop_out_errors</i>     | (Optional) Output errors         |
| <i>loop_out_collisions</i> | (Optional) Output collisions     |
| <i>loop_out_fifo</i>       | (Optional) Output fifo           |
| <i>loop_out_carriers</i>   | (Optional) Output carrier errors |

**Command Mode**

- /exec

## show interface counters detailed all

```
show interface <ifrange> counters detailed all [ snmp ] [ __readonly__ TABLE_interface <interface> [
<svi_routed_pkts_in> ] [ <svi_routed_bytes_in> ] [ <svi_routed_pkts_out> ] [ <svi_routed_bytes_out> ] [
<svi_ucast_pkts_in> ] [ <svi_ucast_bytes_in> ] [ <svi_mcast_pkts_in> ] [ <svi_mcast_bytes_in> ] [
<svi_ucast_pkts_out> ] [ <svi_ucast_bytes_out> ] [ <svi_mcast_pkts_out> ] [ <svi_mcast_bytes_out> ] [
<svi_ipv4_ucast_pkts_in> ] [ <svi_ipv4_ucast_bytes_in> ] [ <svi_ipv4_ucast_pkts_out> ] [
<svi_ipv4_ucast_bytes_out> ] [ <svi_ipv4_mcast_pkts_in> ] [ <svi_ipv4_mcast_bytes_in> ] [
<svi_ipv4_mcast_pkts_out> ] [ <svi_ipv4_mcast_bytes_out> ] [ <svi_ipv6_ucast_pkts_in> ] [
<svi_ipv6_ucast_bytes_in> ] [ <svi_ipv6_ucast_pkts_out> ] [ <svi_ipv6_ucast_bytes_out> ] [
<svi_ipv6_mcast_pkts_in> ] [ <svi_ipv6_mcast_bytes_in> ] [ <svi_ipv6_mcast_pkts_out> ] [
<svi_ipv6_mcast_bytes_out> ] [ <svi_average_input_bits> ] [ <svi_average_input_packets> ] [
<svi_average_output_bits> ] [ <svi_average_output_packets> ] [ <svi_rate_in_mins> ] [
<svi_time_last_cleared> ] [ <svi_tx_load> ] [ <svi_rx_load> ] [ <svi_reliability> ] ]
```

### Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information                       |
| interface                    | Show interface status and information                 |
| <i>ifrange</i>               | Enter interface type and number in module/slot format |
| counters                     | Show interface counters                               |
| detailed                     | Show only non-zero counters                           |
| all                          | everything  |
| snmp                         | (Optional) Show SNMP MIB values                       |
| <u>__readonly__</u>          | (Optional) Read Only                                  |
| <i>interface</i>             | (Optional) Interface index                            |
| TABLE_interface              | (Optional) show interface                             |
| <i>svi_time_last_cleared</i> | (Optional) Time last cleared                          |
| <i>svi_tx_load</i>           | (Optional) Tx Load                                    |
| <i>svi_rx_load</i>           | (Optional) Rx Load                                    |
| <i>svi_reliability</i>       | (Optional) Reliability                                |

### Command Mode

- /exec

## show interface counters detailed cached

```
show interface <ifeth_ctr_dtl_all> counters detailed cached [ __readonly__ TABLE_interface <interface> [
<rx_total_pkts> ][ <tx_total_pkts> ][ <rx_ucast_pkts> ][ <rx_mcast_pkts> ][ <rx_bcast_pkts> ][ <rx_octets> ]
][ <tx_ucast_pkts> ][ <tx_mcast_pkts> ][ <tx_bcast_pkts> ][ <tx_octets> ][ <rxtx_pkts_64octets> ][
<rxtx_pkts_65_127octets> ][ <rxtx_pkts_128_255octets> ][ <rxtx_pkts_256_511octets> ][
<rxtx_pkts_512_1023octets> ][ <rxtx_pkts_1024_1518octets> ][ <rxtx_pkts_1519_1548octets> ][
<rx_trunk_frames> ][ <tx_trunk_frames> ][ <rx_drop_events> ][ <rxtx_giants> ][ <eth_load_interval1_rx> ]
][ <eth_inrate1_bits> ][ <eth_inrate1_pkts> ][ <eth_load_interval1_tx> ][ <eth_outrate1_bits> ][
<eth_outrate1_pkts> ][ <eth_inrate1_summary_bits> ][ <eth_inrate1_summary_pkts> ][
<eth_outrate1_summary_bits> ][ <eth_outrate1_summary_pkts> ][ <eth_load_interval2_rx> ][
<eth_inrate2_bits> ][ <eth_inrate2_pkts> ][ <eth_load_interval2_tx> ][ <eth_outrate2_bits> ][
<eth_outrate2_pkts> ][ <eth_inrate2_summary_bits> ][ <eth_inrate2_summary_pkts> ][
<eth_outrate2_summary_bits> ][ <eth_outrate2_summary_pkts> ][ <eth_load_interval3_rx> ][
<eth_inrate3_bits> ][ <eth_inrate3_pkts> ][ <eth_load_interval3_tx> ][ <eth_outrate3_bits> ][
<eth_outrate3_pkts> ][ <eth_inrate3_summary_bits> ][ <eth_inrate3_summary_pkts> ][
<eth_outrate3_summary_bits> ][ <eth_outrate3_summary_pkts> ][ <eth_l2_ucastpkts> ][ <eth_l2_ucastbytes> ]
][ <eth_l2_mcastpkts> ][ <eth_l2_mcastbytes> ][ <eth_l2_bcastpkts> ][ <eth_l2_bcastbytes> ][
<eth_l3in_ucastpkts> ][ <eth_l3in_ucastbytes> ][ <eth_l3in_mcastpkts> ][ <eth_l3in_mcastbytes> ][
<eth_l3in_bcastpkts> ][ <eth_l3in_bcastbytes> ][ <eth_l3out_ucastpkts> ][ <eth_l3out_ucastbytes> ][
<eth_l3out_mcastpkts> ][ <eth_l3out_mcastbytes> ][ <eth_l3out_bcastpkts> ][ <eth_l3out_bcastbytes> ][
<eth_l3in_routed_pkts> ][ <eth_l3in_routed_bytes> ][ <eth_l3out_routed_pkts> ][ <eth_l3out_routed_bytes> ]
][ <eth_l3avg1_inbytes> ][ <eth_l3avg1_inpkts> ][ <eth_l3avg1_outbytes> ][ <eth_l3avg1_outpkts> ][
<eth_l3avg2_inbytes> ][ <eth_l3avg2_inpkts> ][ <eth_l3avg2_outbytes> ][ <eth_l3avg2_outpkts> ][
<eth_l3avg3_inbytes> ][ <eth_l3avg3_inpkts> ][ <eth_l3avg3_outbytes> ][ <eth_l3avg3_outpkts> ][
<eth_inpkts> ][ <eth_inbytes> ][ <eth_nobuf> ][ <eth_inbcast> ][ <eth_inmcast> ][ <eth_inucast> ][
<eth_ingiants> ][ <eth_ipmcast> ][ <eth_inhw_switched> ][ <eth_insw_switched> ][ <eth_runts> ][
<eth_storm_supp> ][ <eth_throtles> ][ <eth_inerr> ][ <eth_crc> ][ <eth_ecc> ][ <eth_frame> ][
<eth_overrun> ][ <eth_ignored> ][ <eth_watchdog> ][ <eth_outbroadcast> ][ <eth_outmcast> ][ <eth_outucast> ]
][ <eth_outgiants> ][ <eth_inpause> ][ <eth_dribble> ][ <eth_in_ifdown_drops> ][ <eth_bad_eth> ][
<eth_bad_proto> ][ <eth_outpkts> ][ <eth_outbytes> ][ <eth_underrun> ][ <eth_outhw_switched> ][
<eth_outsw_switched> ][ <eth_outerr> ][ <eth_coll> ][ <eth_resets> ][ <eth_babbles> ][ <eth_latecoll> ]
][ <eth_deferred> ][ <eth_lostcarrier> ][ <eth_nocarrier> ][ <eth_outpause> ][ <eth_buffail> ][
<eth_bufswapped> ][ <eth_arpdrops> ][ <eth_out_ifdown_drops> ][ <eth_single_coll> ][ <eth_multi_coll> ]
][ <eth_excess_coll> ][ <eth_jabbers> ][ <eth_shortframe> ][ <eth_indiscard> ][ <eth_bad_encap> ][
<eth_outcrc> ][ <eth_symbol> ][ <eth_out_drops> ][ <eth_sqetest> ][ <eth_inb64> ][ <eth_inb65_127> ]
][ <eth_inb128_255> ][ <eth_inb256_511> ][ <eth_inb512_1023> ][ <eth_inb1024_1518> ][
<eth_inb1519_1548> ][ <eth_intrunk> ][ <eth_outb64> ][ <eth_outb65_127> ][ <eth_outb128_255> ][
<eth_outb256_511> ][ <eth_outb512_1023> ][ <eth_outb1024_1518> ][ <eth_outb1519_1548> ][
<eth_outtrunk> ][ <eth_bpdu_outlost> ][ <eth_cos0_outlost> ][ <eth_cos1_outlost> ][ <eth_cos2_outlost> ]
][ <eth_cos3_outlost> ][ <eth_cos4_outlost> ][ <eth_cos5_outlost> ][ <eth_cos6_outlost> ][
<eth_cos7_outlost> ][ <eth_fcoe_in_pkts> ][ <eth_fcoe_in_octets> ][ <eth_fcoe_out_pkts> ][
<eth_fcoe_out_octets> ][ <eth_nfcoe_in_pkts> ][ <eth_nfcoe_in_octets> ][ <eth_nfcoe_out_pkts> ][
<eth_nfcoe_out_octets> ][ <eth_eee_atx_lpi_msec> ][ <eth_eee_arcv_lpi_msec> ][
<eth_eee_atx_lpi_transitions> ][ <eth_eee_arcv_lpi_transitions> ][ <eth_phy_ber_count> ][
<eth_phy_errblks_count> ] ]
```

### Syntax Description

|      |                                 |
|------|---------------------------------|
| show | Show running system information |
|------|---------------------------------|

|                                  |   |
|----------------------------------|---|
| interface                        | Show interface status and information                 |
| <i>ifeth_ctr_dtl_all</i>         | Enter interface type and number in module/slot format |
| counters                         | Show interface counters                               |
| detailed                         | Show only non-zero counters                           |
| cached                           | everything cached                                     |
| <i>__readonly__</i>              | (Optional) Read Only                                  |
| <i>interface</i>                 | (Optional) Interface index                            |
| TABLE_interface                  | (Optional) show interface                             |
| <i>rx_total_pkts</i>             | (Optional) total input packets                        |
| <i>tx_total_pkts</i>             | (Optional) total output packets                       |
| <i>rx_ucast_pkts</i>             | (Optional) input unicasts                             |
| <i>rx_mcast_pkts</i>             | (Optional) input multicasts                           |
| <i>rx_bcast_pkts</i>             | (Optional) input broadcasts                           |
| <i>rx_octets</i>                 | (Optional) input bytes                                |
| <i>tx_ucast_pkts</i>             | (Optional) output unicasts                            |
| <i>tx_mcast_pkts</i>             | (Optional) output multicasts                          |
| <i>tx_bcast_pkts</i>             | (Optional) output broadcasts                          |
| <i>tx_octets</i>                 | (Optional) output bytes                               |
| <i>rxtx_pkts_64octets</i>        | (Optional) all pkts between 0 and 64 bytes            |
| <i>rxtx_pkts_65_127octets</i>    | (Optional) all pkts between 65 and 127 bytes          |
| <i>rxtx_pkts_128_255octets</i>   | (Optional) all pkts between 128 and 255 bytes         |
| <i>rxtx_pkts_256_511octets</i>   | (Optional) all pkts between 256 and 511 bytes         |
| <i>rxtx_pkts_512_1023octets</i>  | (Optional) all pkts between 512 and 1023 bytes        |
| <i>rxtx_pkts_1024_1518octets</i> | (Optional) all pkts between 1024 and 1518 bytes       |
| <i>rxtx_pkts_1519_1548octets</i> | (Optional) all pkts between 1519 and 1548 bytes       |
| <i>rx_trunk_frames</i>           | (Optional) input trunk pkts                           |
| <i>tx_trunk_frames</i>           | (Optional) output trunk pkts                          |
| <i>rx_drop_events</i>            | (Optional) dropped pkts                               |
| <i>rxtx_giants</i>               | (Optional) giants                                     |



|                                  |   |
|----------------------------------|---|
| <i>eth_load_interval1_rx</i>     | (Optional) interval 1 timer value in sec      |
| <i>eth_inrate1_bits</i>          | (Optional) interval 1 input rate bits/sec     |
| <i>eth_inrate1_pkts</i>          | (Optional) interval 1 input rate pkts/sec     |
| <i>eth_load_interval1_tx</i>     | (Optional) interval 1 timer value in sec      |
| <i>eth_outrate1_bits</i>         | (Optional) interval 1 output rate bits/sec    |
| <i>eth_outrate1_pkts</i>         | (Optional) interval 1 output rate pkts/sec    |
| <i>eth_inrate1_summary_bits</i>  | (Optional) interval 1 input rate bit summary  |
| <i>eth_inrate1_summary_pkts</i>  | (Optional) interval 1 input rate pkt summary  |
| <i>eth_outrate1_summary_bits</i> | (Optional) interval 1 output rate bit summary |
| <i>eth_outrate1_summary_pkts</i> | (Optional) interval 1 output rate pkt summary |
| <i>eth_load_interval2_rx</i>     | (Optional) interval 2 timer value in sec      |
| <i>eth_inrate2_bits</i>          | (Optional) interval 2 input rate bits/sec     |
| <i>eth_inrate2_pkts</i>          | (Optional) interval 2 input rate pkts/sec     |
| <i>eth_load_interval2_tx</i>     | (Optional) interval 2 timer value in sec      |
| <i>eth_outrate2_bits</i>         | (Optional) interval 2 output rate bits/sec    |
| <i>eth_outrate2_pkts</i>         | (Optional) interval 2 output rate pkts/sec    |
| <i>eth_inrate2_summary_bits</i>  | (Optional) interval 2 input rate bit summary  |
| <i>eth_inrate2_summary_pkts</i>  | (Optional) interval 2 input rate pkt summary  |
| <i>eth_outrate2_summary_bits</i> | (Optional) interval 2 output rate bit summary |
| <i>eth_outrate2_summary_pkts</i> | (Optional) interval 2 output rate pkt summary |
| <i>eth_load_interval3_rx</i>     | (Optional) interval 3 timer value in sec      |
| <i>eth_inrate3_bits</i>          | (Optional) interval 3 input rate bits/sec     |
| <i>eth_inrate3_pkts</i>          | (Optional) interval 3 input rate pkts/sec     |
| <i>eth_load_interval3_tx</i>     | (Optional) interval 3 timer value in sec      |
| <i>eth_outrate3_bits</i>         | (Optional) interval 3 output rate bits/sec    |
| <i>eth_outrate3_pkts</i>         | (Optional) interval 3 output rate pkts/sec    |
| <i>eth_inrate3_summary_bits</i>  | (Optional) interval 3 input rate bit summary  |
| <i>eth_inrate3_summary_pkts</i>  | (Optional) interval 3 input rate pkt summary  |
| <i>eth_outrate3_summary_bits</i> | (Optional) interval 3 output rate bit summary |

|                                  |  |
|----------------------------------|--|
| <i>eth_outrate3_summary_pkts</i> | (Optional) interval 3 output rate pkt summary            |
| <i>eth_l2_ucastpkts</i>          | (Optional) L2 switched ucast pkts                        |
| <i>eth_l2_ucastbytes</i>         | (Optional) L2 switched ucast bytes                       |
| <i>eth_l2_mcastpkts</i>          | (Optional) L2 switched mcast pkts                        |
| <i>eth_l2_mcastbytes</i>         | (Optional) L2 switched mcast bytes                       |
| <i>eth_l2_bcastpkts</i>          | (Optional) L2 switched bcast pkts                        |
| <i>eth_l2_bcastbytes</i>         | (Optional) L2 switched bcast bytes                       |
| <i>eth_l3in_ucastpkts</i>        | (Optional) IPv4 L3 in switched ucast pkts                |
| <i>eth_l3in_ucastbytes</i>       | (Optional) IPv4 L3 in switched ucast bytes               |
| <i>eth_l3in_mcastpkts</i>        | (Optional) IPv4 L3 in switched mcast pkts                |
| <i>eth_l3in_mcastbytes</i>       | (Optional) IPv4 L3 in switched mcast bytes               |
| <i>eth_l3in_bcastpkts</i>        | (Optional) L3 in switched bcast pkts                     |
| <i>eth_l3in_bcastbytes</i>       | (Optional) L3 in switched bcast bytes                    |
| <i>eth_l3out_ucastpkts</i>       | (Optional) IPv4 L3 out switched ucast pkts               |
| <i>eth_l3out_ucastbytes</i>      | (Optional) IPv4 L3 out switched ucast bytes              |
| <i>eth_l3out_mcastpkts</i>       | (Optional) IPv4 L3 out switched mcast pkts               |
| <i>eth_l3out_mcastbytes</i>      | (Optional) IPv4 L3 out switched mcast bytes              |
| <i>eth_l3out_bcastpkts</i>       | (Optional) L3 out switched bcast pkts                    |
| <i>eth_l3out_bcastbytes</i>      | (Optional) L3 out switched bcast bytes                   |
| <i>eth_l3in_routed_pkts</i>      | (Optional) L3 in routed pkts                             |
| <i>eth_l3in_routed_bytes</i>     | (Optional) L3 in routed bytes                            |
| <i>eth_l3out_routed_pkts</i>     | (Optional) L3 out routed pkts                            |
| <i>eth_l3out_routed_bytes</i>    | (Optional) L3 out routed bytes                           |
| <i>eth_l3avg1_inbytes</i>        | (Optional) Load interval 1 L3 average in switched bytes  |
| <i>eth_l3avg1_inpkts</i>         | (Optional) Load interval 1 L3 average in switched pkts   |
| <i>eth_l3avg1_outbytes</i>       | (Optional) Load interval 1 L3 average out switched bytes |
| <i>eth_l3avg1_outpkts</i>        | (Optional) Load interval 1 L3 average out switched pkts  |
| <i>eth_l3avg2_inbytes</i>        | (Optional) Load interval 2 L3 average in switched bytes  |
| <i>eth_l3avg2_inpkts</i>         | (Optional) Load interval 2 L3 average in switched pkts   |

|                            |  |
|----------------------------|--|
| <i>eth_l3avg2_outbytes</i> | (Optional) Load interval 2 L3 average out switched bytes |
| <i>eth_l3avg2_outpkts</i>  | (Optional) Load interval 2 L3 average out switched pkts  |
| <i>eth_l3avg3_inbytes</i>  | (Optional) Load interval 3 L3 average in switched bytes  |
| <i>eth_l3avg3_inpkts</i>   | (Optional) Load interval 3 L3 average in switched pkts   |
| <i>eth_l3avg3_outbytes</i> | (Optional) Load interval 3 L3 average out switched bytes |
| <i>eth_l3avg3_outpkts</i>  | (Optional) Load interval 3 L3 average out switched pkts  |
| <i>eth_inpkts</i>          | (Optional) Packets input                                 |
| <i>eth_inbytes</i>         | (Optional) Bytes input                                   |
| <i>eth_nobuf</i>           | (Optional) No buffer received                            |
| <i>eth_inbcast</i>         | (Optional) Broadcasts                                    |
| <i>eth_inmcast</i>         | (Optional) Multicasts                                    |
| <i>eth_inucast</i>         | (Optional) Unicasts                                      |
| <i>eth_ingiants</i>        | (Optional) giants  |
| <i>eth_ipmcast</i>         | (Optional) IP multicast                                  |
| <i>eth_inhw_switched</i>   | (Optional) Input H/W Switched                            |
| <i>eth_insw_switched</i>   | (Optional) Input S/W Switched                            |
| <i>eth_runts</i>           | (Optional) runts   |
| <i>eth_storm_supp</i>      | (Optional) storm suppression                             |
| <i>eth_throtles</i>        | (Optional) throttles                                     |
| <i>eth_inerr</i>           | (Optional) input errors                                  |
| <i>eth_crc</i>             | (Optional) CRC   |
| <i>eth_ecc</i>             | (Optional) ECC   |
| <i>eth_frame</i>           | (Optional) frame   |
| <i>eth_overrun</i>         | (Optional) overrun                                       |
| <i>eth_ignored</i>         | (Optional) ignored                                       |
| <i>eth_watchdog</i>        | (Optional) watchdog                                      |
| <i>eth_outbcast</i>        | (Optional) Broadcasts                                    |
| <i>eth_outmcast</i>        | (Optional) Multicasts                                    |
| <i>eth_outucast</i>        | (Optional) Unicasts                                      |

|                             |   |
|-----------------------------|---|
| <i>eth_outgiants</i>        | (Optional) giants                               |
| <i>eth_inpause</i>          | (Optional) pause input                          |
| <i>eth_dribble</i>          | (Optional) input packets with dribble condition |
| <i>eth_in_ifdown_drops</i>  | (Optional) Input if-down drops                  |
| <i>eth_bad_eth</i>          | (Optional) bad ether type drop                  |
| <i>eth_bad_proto</i>        | (Optional) bad protocol drops                   |
| <i>eth_outpkts</i>          | (Optional) packets output                       |
| <i>eth_outbytes</i>         | (Optional) bytes output                         |
| <i>eth_underrun</i>         | (Optional) underruns                            |
| <i>eth_outhw_switched</i>   | (Optional) Out H/W Switched                     |
| <i>eth_outsw_switched</i>   | (Optional) Out S/W Switched                     |
| <i>eth_outerr</i>           | (Optional) output errors                        |
| <i>eth_coll</i>             | (Optional) collisions                           |
| <i>eth_resets</i>           | (Optional) interface resets                     |
| <i>eth_babbles</i>          | (Optional) babbles                              |
| <i>eth_latecoll</i>         | (Optional) late collision                       |
| <i>eth_deferred</i>         | (Optional) deferred                             |
| <i>eth_lostcarrier</i>      | (Optional) lost carrier                         |
| <i>eth_nocarrier</i>        | (Optional) no carrier                           |
| <i>eth_outpause</i>         | (Optional) PAUSE output                         |
| <i>eth_buffail</i>          | (Optional) output buffer failures               |
| <i>eth_bufswapped</i>       | (Optional) output buffers swapped out           |
| <i>eth_arpdrops</i>         | (Optional) arp drops                            |
| <i>eth_out_ifdown_drops</i> | (Optional) Output if-down drops                 |
| <i>eth_single_coll</i>      | (Optional) single collisions                    |
| <i>eth_multi_coll</i>       | (Optional) multi collisions                     |
| <i>eth_excess_coll</i>      | (Optional) excessive collisions                 |
| <i>eth_jabbers</i>          | (Optional) jabbers                              |
| <i>eth_shortframe</i>       | (Optional) short frames                         |

|                          |  |
|--------------------------|--|
| <i>eth_indiscard</i>     | (Optional) discards                                |
| <i>eth_bad_encap</i>     | (Optional) bad encapsulation                       |
| <i>eth_outcrc</i>        | (Optional) Output CRC                              |
| <i>eth_symbol</i>        | (Optional) symbol errors                           |
| <i>eth_out_drops</i>     | (Optional) output drops                            |
| <i>eth_sqetest</i>       | (Optional) SQE test                                |
| <i>eth_inb64</i>         | (Optional) input pkts between 0 and 64 bytes       |
| <i>eth_inb65_127</i>     | (Optional) input pkts between 65 and 127 bytes     |
| <i>eth_inb128_255</i>    | (Optional) input pkts between 128 and 255 bytes    |
| <i>eth_inb256_511</i>    | (Optional) input pkts between 256 and 511 bytes    |
| <i>eth_inb512_1023</i>   | (Optional) input pkts between 512 and 1023 bytes   |
| <i>eth_inb1024_1518</i>  | (Optional) input pkts between 1024 and 1518 bytes  |
| <i>eth_inb1519_1548</i>  | (Optional) input pkts between 1519 and 1548 bytes  |
| <i>eth_intrunk</i>       | (Optional) input trunk pkts                        |
| <i>eth_outb64</i>        | (Optional) output pkts between 0 and 64 bytes      |
| <i>eth_outb65_127</i>    | (Optional) output pkts between 65 and 127 bytes    |
| <i>eth_outb128_255</i>   | (Optional) output pkts between 128 and 255 bytes   |
| <i>eth_outb256_511</i>   | (Optional) output pkts between 256 and 511 bytes   |
| <i>eth_outb512_1023</i>  | (Optional) output pkts between 512 and 1023 bytes  |
| <i>eth_outb1024_1518</i> | (Optional) output pkts between 1024 and 1518 bytes |
| <i>eth_outb1519_1548</i> | (Optional) output pkts between 1519 and 1548 bytes |
| <i>eth_outtrunk</i>      | (Optional) output trunk pkts                       |
| <i>eth_bpdu_outlost</i>  | (Optional) BPDU output lost                        |
| <i>eth_cos0_outlost</i>  | (Optional) output pkts                             |
| <i>eth_cos1_outlost</i>  | (Optional) output pkts                             |
| <i>eth_cos2_outlost</i>  | (Optional) output pkts                             |
| <i>eth_cos3_outlost</i>  | (Optional) output pkts                             |
| <i>eth_cos4_outlost</i>  | (Optional) output pkts                             |
| <i>eth_cos5_outlost</i>  | (Optional) output pkts                             |

|                                     |                                   |
|-------------------------------------|-----------------------------------|
| <i>eth_cos6_outlost</i>             | (Optional) output pkts            |
| <i>eth_cos7_outlost</i>             | (Optional) output pkts            |
| <i>eth_fcoe_in_pkts</i>             | (Optional) fcoe in pkts           |
| <i>eth_fcoe_in_octets</i>           | (Optional) fcoe in octets         |
| <i>eth_fcoe_out_pkts</i>            | (Optional) fcoe out pkts          |
| <i>eth_fcoe_out_octets</i>          | (Optional) fcoe out octets        |
| <i>eth_nfcoe_in_pkts</i>            | (Optional) nfcoe in pkts          |
| <i>eth_nfcoe_in_octets</i>          | (Optional) nfcoe in octets        |
| <i>eth_nfcoe_out_pkts</i>           | (Optional) nfcoe out pkts         |
| <i>eth_nfcoe_out_octets</i>         | (Optional) nfcoe out octets       |
| <i>eth_eee_atx_lpi_msec</i>         | (Optional) Tx Lpi usec            |
| <i>eth_eee_arcv_lpi_msec</i>        | (Optional) Rx Lpi usec            |
| <i>eth_eee_atx_lpi_transitions</i>  | (Optional) Tx Lpi requests        |
| <i>eth_eee_arcv_lpi_transitions</i> | (Optional) Rx Lpi indications     |
| <i>eth_phy_ber_count</i>            | (Optional) Bit error rate counter |
| <i>eth_phy_errblks_count</i>        | (Optional) Errored blocks counter |

**Command Mode**

- /exec

## show interface counters details

```
show interface <ifid_ctr_det> counters details [ __readonly__ TABLE_interface <interface> [ <fcoe_in_pkts>
] [ <fcoe_in_octets> ] [ <fcoe_out_pkts> ] [ <fcoe_out_octets> ] ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information                       |
| interface              | Show interface status and information                 |
| <i>ifid_ctr_det</i>    | Enter interface type and number in module/slot format |
| counters               | Show interface counters                               |
| details                | Show interface counters in detail                     |
| <i>__readonly__</i>    | (Optional) Read Only                                  |
| <i>interface</i>       | (Optional) Interface index                            |
| TABLE_interface        | (Optional) show interface                             |
| <i>fcoe_in_pkts</i>    | (Optional) fcoe in pkts                               |
| <i>fcoe_in_octets</i>  | (Optional) fcoe in octets                             |
| <i>fcoe_out_pkts</i>   | (Optional) fcoe out pkts                              |
| <i>fcoe_out_octets</i> | (Optional) fcoe out octets                            |

### Command Mode

- /exec

## show interface counters details

```
show interface <ifid_ctrs_det2> counters details [ __readonly__ TABLE_ifid_counters [ <sfp> <in_frames>
<in_bytes> <class_2_frames> <class_2_in_bytes> <class_2_in_discards> <class_2_in_f_bsy_frames>
<class_2_in_f_rgt_frames> <class_2_in_port_reject_frames> <class_3_frames> <class_3_bytes_rcvd>
<class_f_frames> <class_f_bytes_rcvd> <class_f_in_discards> <class_f_errors_rcvd> <class_f_out_discards>
<class_f_errors_trans> <out_frames> <out_bytes> <class_2_out_frames> <class_2_bytes_trans>
<class_3_out_frames> <class_3_bytes_trans> <class_3_out_discards> <class_f_out_frames>
<class_f_bytes_trans> <class_f_discards> <muticast_rcvd> <multicast_trans> <broadcast_rcvd>
<broadcast_trans> <unicast_rcvd> <unicast_trans> <timeout_discards> <credit_loss> <link_faliures>
<sync_loss> <signal_loss> <prm_seq_pro_err> <inv_trans_err> <inv_crc> <delim_err> <addr_iden_err>
<link_reset_rcvd> <link_reset_trans> <off_seq_err_rcvd> <off_seq_err_trans> <frames_rcvd_short>
<frames_rcvd_long> <txwait> <frames_rcvd_greater> <frame_rcvd_short_header> <link_reset_resp_rcvd>
<link_reset_resp_trans> <non_oper_seq_rcvd> <non_oper_seq_trans> <frag_frames_rcvd> <frames_eof_abort>
<unknown_class_frames_rcvd> <8b10b_disparity_err> <frames_discard> <ex_link_param_sw_fab> [
<in_link_ser_req_faliures> ] <b2b_credits_transmit> <b2b_credits_receive> <eisl_frames> <framing_err>
<f8_lip_seq_err_rcvd> <f8_lip_seq_err_issued> <non_f8_lip_seq_err_rcvd> <non_f8_lip_seq_err_issued>
[ <fec_corrected> ] [ <fec_uncorrected> ] ] ]
```

### Syntax Description

|                                      |   |
|--------------------------------------|---|
| show                                 | Show running system information                       |
| interface                            | Show interface status and information                 |
| <i>ifid_ctrs_det2</i>                | Enter interface type and number in module/slot format |
| counters                             | Show interface counters                               |
| details                              | Show interface counters in detail                     |
| <u>__readonly__</u>                  | (Optional)  |
| TABLE_ifid_counters                  | (Optional) show interface counters                    |
| <i>sfp</i>                           | (Optional) SFP  |
| <i>in_frames</i>                     | (Optional) in frames                                  |
| <i>in_bytes</i>                      | (Optional) in bytes                                   |
| <i>class_2_frames</i>                | (Optional) Class 2 frames                             |
| <i>class_2_in_bytes</i>              | (Optional) Class 2 bytes received                     |
| <i>class_2_in_discards</i>           | (Optional) Class 2 discards received                  |
| <i>class_2_in_f_bsy_frames</i>       | (Optional) Class 2 F_BSY frames received              |
| <i>class_2_in_f_rgt_frames</i>       | (Optional) Class 2 F_RGT frames                       |
| <i>class_2_in_port_reject_frames</i> | (Optional) Class 2 port reject frames                 |
| <i>class_3_frames</i>                | (Optional) Class 3 frames                             |



|                             |   |
|-----------------------------|---|
| <i>class_3_bytes_rcv</i>    | (Optional) Class 3 bytes received             |
| <i>class_f_frames</i>       | (Optional) Class f frames                     |
| <i>class_f_bytes_rcv</i>    | (Optional) Class F bytes received             |
| <i>class_f_in_discards</i>  | (Optional) Class F in discards                |
| <i>class_f_errors_rcvd</i>  | (Optional) Class F errors received            |
| <i>class_f_out_discards</i> | (Optional) Class F out discards               |
| <i>class_f_errors_trans</i> | (Optional) Class F errors transmitted         |
| <i>out_frames</i>           | (Optional) Out frames                         |
| <i>out_bytes</i>            | (Optional) Out bytes                          |
| <i>class_2_out_frames</i>   | (Optional) Class 2 frames transmitted         |
| <i>class_2_bytes_trans</i>  | (Optional) Class 2 bytes transmitted          |
| <i>class_3_out_frames</i>   | (Optional) Class 3 frames transmitted         |
| <i>class_3_bytes_trans</i>  | (Optional) Class 3 bytes transmitted          |
| <i>class_3_out_discards</i> | (Optional) Class 3 out discards               |
| <i>class_f_out_frames</i>   | (Optional) Class F out frames                 |
| <i>class_f_bytes_trans</i>  | (Optional) Class F bytes transmitted          |
| <i>class_f_discards</i>     | (Optional) Class F discards                   |
| <i>multicast_rcvd</i>       | (Optional) Multicast received                 |
| <i>multicast_trans</i>      | (Optional) Muticast transmitted               |
| <i>broadcast_rcvd</i>       | (Optional) Broadcast received                 |
| <i>broadcast_trans</i>      | (Optional) Broadcast transmitted              |
| <i>unicast_rcvd</i>         | (Optional) Unicast received                   |
| <i>unicast_trans</i>        | (Optional) Unicast transmitted                |
| <i>timeout_discards</i>     | (Optional) timeout discards                   |
| <i>credit_loss</i>          | (Optional) credit loss                        |
| <i>link_faliures</i>        | (Optional) Link faliures                      |
| <i>sync_loss</i>            | (Optional) Sync Loss                          |
| <i>signal_loss</i>          | (Optional) Signal Loss                        |
| <i>prm_seq_pro_err</i>      | (Optional) primitive sequence protocol errors |

|                                  |   |
|----------------------------------|---|
| <i>inv_trans_err</i>             | (Optional) invalid transmission errors  |
| <i>inv_crc</i>                   | (Optional) Invalid crc  |
| <i>delim_err</i>                 | (Optional) Delimiter Errors   |
| <i>addr_iden_err</i>             | (Optional) Address Identification errors  |
| <i>link_reset_rcvd</i>           | (Optional) link reset received  |
| <i>link_reset_trans</i>          | (Optional) link reset transmitted   |
| <i>off_seq_err_rcvd</i>          | (Optional) Offline sequence error received  |
| <i>off_seq_err_trans</i>         | (Optional) Offline sequence Error transmitted   |
| <i>frames_rcvd_short</i>         | (Optional) frames received that are shorter than the minimum allowable frame length regardless of the CRC/FCS error |
| <i>frames_rcvd_long</i>          | (Optional) frames received that are longer than the minimum allowable frame length regardless of the CRC/FCS error  |
| <i>txwait</i>                    | (Optional) TXwait   |
| <i>frames_rcvd_greater</i>       | (Optional) frames received with length greater than what was agreed to in FLOGI/PLOGI                               |
| <i>frame_rcvd_short_header</i>   | (Optional) frames received with length less than the minimum indicated by the frame header                          |
| <i>link_reset_resp_rcvd</i>      | (Optional) Link reset responses received  |
| <i>link_reset_resp_trans</i>     | (Optional) Link reset responses transmitted   |
| <i>non_oper_seq_rcvd</i>         | (Optional) Non operational sequence received  |
| <i>non_oper_seq_trans</i>        | (Optional) Non operational sequence transmitted   |
| <i>frag_frames_rcvd</i>          | (Optional) fragmented frames received   |
| <i>frames_eof_abort</i>          | (Optional) frames EOF abort   |
| <i>unknown_class_frames_rcvd</i> | (Optional) unknown class frames received  |
| <i>8b10b_disparity_err</i>       | (Optional) 8b10b disparity errors   |
| <i>frames_discard</i>            | (Optional) frames discard   |
| <i>ex_link_param_sw_fab</i>      | (Optional) external link parameters switch fabric   |
| <i>in_link_ser_req_faliures</i>  | (Optional) internal link serial request faliures  |
| <i>b2b_credits_transmit</i>      | (Optional) B2B credits transmit   |
| <i>b2b_credits_receive</i>       | (Optional) B2B credits receive  |

|                                  |   |
|----------------------------------|---|
| <i>eisl_frames</i>               | (Optional) EISL frames                        |
| <i>framing_err</i>               | (Optional) Framing Error                      |
| <i>f8_lip_seq_err_rcvd</i>       | (Optional) f8 LIP sequence error received     |
| <i>f8_lip_seq_err_issued</i>     | (Optional) f8 LIP sequence error issued       |
| <i>non_f8_lip_seq_err_rcvd</i>   | (Optional) non f8 LIP sequence error received |
| <i>non_f8_lip_seq_err_issued</i> | (Optional) non f8 LIP sequence error issued   |
| <i>fec_corrected</i>             | (Optional) fec corrected blocks               |
| <i>fec_uncorrected</i>           | (Optional) fec uncorrected blocks             |

**Command Mode**

- /exec

## show interface counters errors

```
show interface <ifeth_ctr_errs> counters errors [ snmp ] [ __readonly__ TABLE_interface <interface> [
<eth_align_err> ] [ <eth_fcs_err> ] [ <eth_xmit_err> ] [ <eth_rcv_err> ] [ <eth_undersize> ] [ <eth_outdisc>
] [ <eth_single_col> ] [ <eth_multi_col> ] [ <eth_late_col> ] [ <eth_excess_col> ] [ <eth_carri_sen> ] [
<eth_runts> ] [ <eth_giants> ] [ <eth_sqetest_err> ] [ <eth_deferred_tx> ] [ <eth_inmactx_err> ] [
<eth_inmacrx_err> ] [ <eth_symbol_err> ] [ <eth_indisc> ] ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information                       |
| interface              | Show interface status and information                 |
| <i>ifeth_ctr_errs</i>  | Enter interface type and number in module/slot format |
| counters               | Show interface counters                               |
| errors                 | Show interface error counters                         |
| snmp                   | (Optional) Show SNMP MIB values                       |
| <i>__readonly__</i>    | (Optional) Read Only                                  |
| <i>interface</i>       | (Optional) Interface index                            |
| TABLE_interface        | (Optional) show interface                             |
| <i>eth_align_err</i>   | (Optional) Align error                                |
| <i>eth_fcs_err</i>     | (Optional) FCS error                                  |
| <i>eth_xmit_err</i>    | (Optional) Transmit error                             |
| <i>eth_rcv_err</i>     | (Optional) Receive error                              |
| <i>eth_undersize</i>   | (Optional) Undersize                                  |
| <i>eth_outdisc</i>     | (Optional) Out discard                                |
| <i>eth_single_col</i>  | (Optional) Single collision                           |
| <i>eth_multi_col</i>   | (Optional) Multiple collision                         |
| <i>eth_late_col</i>    | (Optional) Late collision                             |
| <i>eth_excess_col</i>  | (Optional) Excess collision                           |
| <i>eth_carri_sen</i>   | (Optional) Carrier sense                              |
| <i>eth_runts</i>       | (Optional) Runts                                      |
| <i>eth_giants</i>      | (Optional) Giants                                     |
| <i>eth_sqetest_err</i> | (Optional) SQETest error                              |

|                        |                         |
|------------------------|-------------------------|
| <i>eth_deferred_tx</i> | (Optional) Deferred tx  |
| <i>eth_inmactx_err</i> | (Optional) In MAC tx    |
| <i>eth_inmacrx_err</i> | (Optional) In MAC rx    |
| <i>eth_symbol_err</i>  | (Optional) Symbol error |
| <i>eth_indisc</i>      | (Optional) In discards  |

**Command Mode**

- /exec

## show interface counters errors

```
show interface counters errors [ module <module> ] [ non-zero ] [ __readonly__ TABLE_interface <interface>
[ <eth_align_err> ] [ <eth_fcs_err> ] [ <eth_xmit_err> ] [ <eth_rcv_err> ] [ <eth_undersize> ] [ <eth_outdisc>
] [ <eth_single_col> ] [ <eth_multi_col> ] [ <eth_late_col> ] [ <eth_excess_col> ] [ <eth_carri_sen> ] [
<eth_runts> ] [ <eth_giants> ] [ <eth_sqetest_err> ] [ <eth_deferred_tx> ] [ <eth_inmactx_err> ] [
<eth_inmacrx_err> ] [ <eth_symbol_err> ] [ <eth_indisc> ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                   |
| interface             | Show interface status and information             |
| counters              | Show interface counters                           |
| errors                | Show interface error counters                     |
| module                | (Optional) Limit display to interfaces on module  |
| <i>module</i>         | (Optional) Enter module number                    |
| non-zero              | (Optional) Display only the non-zero error values |
| <u>__readonly__</u>   | (Optional) Read Only                              |
| <i>interface</i>      | (Optional) Interface index                        |
| TABLE_interface       | (Optional) show interface                         |
| <i>eth_align_err</i>  | (Optional) Align error                            |
| <i>eth_fcs_err</i>    | (Optional) FCS error                              |
| <i>eth_xmit_err</i>   | (Optional) Transmit error                         |
| <i>eth_rcv_err</i>    | (Optional) Receive error                          |
| <i>eth_undersize</i>  | (Optional) Undersize                              |
| <i>eth_outdisc</i>    | (Optional) Out discard                            |
| <i>eth_single_col</i> | (Optional) Single collision                       |
| <i>eth_multi_col</i>  | (Optional) Multiple collision                     |
| <i>eth_late_col</i>   | (Optional) Late collision                         |
| <i>eth_excess_col</i> | (Optional) Excess collision                       |
| <i>eth_carri_sen</i>  | (Optional) Carrier sense                          |
| <i>eth_runts</i>      | (Optional) Runts                                  |
| <i>eth_giants</i>     | (Optional) Giants                                 |

|                        |                          |
|------------------------|--------------------------|
| <i>eth_sqetest_err</i> | (Optional) SQETest error |
| <i>eth_deferred_tx</i> | (Optional) Deferred tx   |
| <i>eth_inmactx_err</i> | (Optional) In MAC tx     |
| <i>eth_inmacrx_err</i> | (Optional) In MAC rx     |
| <i>eth_symbol_err</i>  | (Optional) Symbol error  |
| <i>eth_indisc</i>      | (Optional) In discards   |

**Command Mode**

- /exec

# show interface counters errors

show interface <loop\_ctr\_errs> counters errors

## Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information                       |
| interface            | Show interface status and information                 |
| <i>loop_ctr_errs</i> | Enter interface type and number in module/slot format |
| counters             | Show interface counters                               |
| errors               | Show interface error counters                         |

## Command Mode

- /exec



## show interface counters snmp

```
show interface counters snmp [ module <module> ] [ __readonly__ { TABLE_rx_counters <interface_rx> [
<eth_inpkts> ] [ <eth_inbytes> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ]
[ <eth_l3in_ucastpkts> ] [ <eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] } } { TABLE_tx_counters
<interface_tx> [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast>
] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ] [ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] } }
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                  |
| interface                 | Show interface status and information            |
| counters                  | Show interface counters                          |
| snmp                      | Show SNMP MIB values                             |
| module                    | (Optional) Limit display to interfaces on module |
| <i>module</i>             | (Optional) Enter module number                   |
| <i>__readonly__</i>       | (Optional) Read Only                             |
| TABLE_rx_counters         | (Optional) show Rx counters                      |
| <i>interface_rx</i>       | (Optional) Interface index                       |
| <i>eth_inpkts</i>         | (Optional) Packets input                         |
| <i>eth_inbytes</i>        | (Optional) Bytes input                           |
| <i>eth_inucast</i>        | (Optional) Unicasts                              |
| <i>eth_inmcast</i>        | (Optional) Multicasts                            |
| <i>eth_inbcast</i>        | (Optional) Broadcasts                            |
| <i>eth_l3in_bytes</i>     | (Optional) L3 Rx bytes                           |
| <i>eth_l3in_ucastpkts</i> | (Optional) L3 Rx Unicast pkts                    |
| <i>eth_l3in_mcastpkts</i> | (Optional) L3 Rx Multicast pkts                  |
| <i>eth_l3in_bcastpkts</i> | (Optional) L3 Rx Broadcast pkts                  |
| TABLE_tx_counters         | (Optional) show Tx counters                      |
| <i>interface_tx</i>       | (Optional) Interface index                       |
| <i>eth_outpkts</i>        | (Optional) Packets output                        |
| <i>eth_outbytes</i>       | (Optional) Bytes output                          |
| <i>eth_outucast</i>       | (Optional) Unicasts                              |

|                            |                                 |
|----------------------------|---------------------------------|
| <i>eth_outmcast</i>        | (Optional) Multicasts           |
| <i>eth_outbcast</i>        | (Optional) Broadcasts           |
| <i>eth_l3out_bytes</i>     | (Optional) L3 Tx bytes          |
| <i>eth_l3out_ucastpkts</i> | (Optional) L3 Tx Unicast pkts   |
| <i>eth_l3out_mcastpkts</i> | (Optional) L3 Tx Multicast pkts |
| <i>eth_l3out_bcastpkts</i> | (Optional) L3 Tx Broadcast pkts |

**Command Mode**

- /exec

## show interface counters snmp

```
show interface <ifeth_ctr> counters snmp [ __readonly__ { TABLE_rx_counters <interface_rx> [ <eth_inbytes>
] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [ <eth_l3in_bytes> ] [ <eth_l3in_ucastpkts> ] [
<eth_l3in_mcastpkts> ] [ <eth_l3in_bcastpkts> ] } { TABLE_tx_counters <interface_tx> [ <eth_outbytes>
] [ <eth_outucast> ] [ <eth_outmcast> ] [ <eth_outbcast> ] [ <eth_l3out_bytes> ] [ <eth_l3out_ucastpkts> ]
[ <eth_l3out_mcastpkts> ] [ <eth_l3out_bcastpkts> ] } ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information                       |
| interface                 | Show interface status and information                 |
| <i>ifeth_ctr</i>          | Enter interface type and number in module/slot format |
| counters                  | Show interface counters                               |
| snmp                      | Show SNMP MIB values                                  |
| <u>__readonly__</u>       | (Optional) Read Only                                  |
| TABLE_rx_counters         | (Optional) show Rx counters                           |
| <i>interface_rx</i>       | (Optional) Interface index rx                         |
| <i>eth_inbytes</i>        | (Optional) Bytes input                                |
| <i>eth_inucast</i>        | (Optional) Unicasts input                             |
| <i>eth_inmcast</i>        | (Optional) Multicasts input                           |
| <i>eth_inbcast</i>        | (Optional) Broadcasts input                           |
| <i>eth_l3in_bytes</i>     | (Optional) L3 Rx bytes                                |
| <i>eth_l3in_ucastpkts</i> | (Optional) L3 Rx Unicast pkts                         |
| <i>eth_l3in_mcastpkts</i> | (Optional) L3 Rx Multicast pkts                       |
| <i>eth_l3in_bcastpkts</i> | (Optional) L3 Rx Broadcast pkts                       |
| TABLE_tx_counters         | (Optional) show Tx counters                           |
| <i>interface_tx</i>       | (Optional) Interface index tx                         |
| <i>eth_outbytes</i>       | (Optional) Bytes output                               |
| <i>eth_outucast</i>       | (Optional) Unicasts output                            |
| <i>eth_outmcast</i>       | (Optional) Multicasts output                          |
| <i>eth_outbcast</i>       | (Optional) Broadcasts output                          |
| <i>eth_l3out_bytes</i>    | (Optional) L3 Tx bytes                                |

|                            |                                 |
|----------------------------|---------------------------------|
| <i>eth_l3out_ucastpkts</i> | (Optional) L3 Tx Unicast pkts   |
| <i>eth_l3out_mcastpkts</i> | (Optional) L3 Tx Multicast pkts |
| <i>eth_l3out_bcastpkts</i> | (Optional) L3 Tx Broadcast pkts |

**Command Mode**

- /exec

# show interface counters storm-control

```
show interface counters storm-control [ module <module> ] [ __readonly__ TABLE_interface <interface>
<eth_ucast_supp> <eth_mcast_supp> <eth_bcast_supp> <eth_total_supp> <supp_action> ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                  |
| interface             | Show interface status and information            |
| counters              | Show interface counters                          |
| storm-control         | Show interface storm-control counters            |
| module                | (Optional) Limit display to interfaces on module |
| <i>module</i>         | (Optional) Enter module number                   |
| <i>__readonly__</i>   | (Optional) Read Only                             |
| <i>interface</i>      | (Optional) Interface index                       |
| TABLE_interface       | (Optional) show interface                        |
| <i>eth_ucast_supp</i> | (Optional) Unicast suppression percentage        |
| <i>eth_mcast_supp</i> | (Optional) Multicast suppression percentage      |
| <i>eth_bcast_supp</i> | (Optional) Broadcast suppression percentage      |
| <i>eth_total_supp</i> | (Optional) Total discarded due to suppression    |
| <i>supp_action</i>    | (Optional) Action to be taken on suppression     |

## Command Mode

- /exec

## show interface counters storm-control

```
show interface <ifeth_ctr_stm_ctrl> counters storm-control [ __readonly__ TABLE_interface <interface>
<eth_ucast_supp> <eth_mcast_supp> <eth_bcast_supp> <eth_total_supp> <supp_action> ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information                       |
| interface                 | Show interface status and information                 |
| <i>ifeth_ctr_stm_ctrl</i> | Enter interface type and number in module/slot format |
| counters                  | Show interface counters                               |
| storm-control             | Show interface storm-control counters                 |
| <i>__readonly__</i>       | (Optional) Read Only                                  |
| <i>interface</i>          | (Optional) Interface index                            |
| <i>TABLE_interface</i>    | (Optional) show interface                             |
| <i>eth_ucast_supp</i>     | (Optional) Unicast suppression percentage             |
| <i>eth_mcast_supp</i>     | (Optional) Multicast suppression percentage           |
| <i>eth_bcast_supp</i>     | (Optional) Broadcast suppression percentage           |
| <i>eth_total_supp</i>     | (Optional) Total discarded due to suppression         |
| <i>supp_action</i>        | (Optional) Action to be taken on suppression          |

### Command Mode

- /exec

## show interface counters table

```
show interface counters table [ __readonly__ { TABLE_counters <interface> <desc> <eth_load_intvl>
<eth_inrate_mbps> <eth_inrate_pcmt> <eth_outrate_mbps> <eth_outrate_pcmt> } ]
```

### Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information          |
| interface               | Show interface status and information    |
| counters                | Show interface counters                  |
| table                   | format counters in a table               |
| __readonly__            | (Optional) Read Only                     |
| TABLE_counters          | (Optional) Counters table                |
| <i>interface</i>        | (Optional) Interface                     |
| <i>desc</i>             | (Optional) Interface description         |
| <i>eth_load_intvl</i>   | (Optional) interval 1 timer value in sec |
| <i>eth_inrate_mbps</i>  | (Optional) interval 1 input rate mbps    |
| <i>eth_inrate_pcmt</i>  | (Optional) interval 1 input rate in %    |
| <i>eth_outrate_mbps</i> | (Optional) interval 1 output rate mbps   |
| <i>eth_outrate_pcmt</i> | (Optional) interval 1 output rate in %   |

### Command Mode

- /exec

## show interface counters table verbose

```
show interface counters table verbose [ __readonly__ { TABLE_Err_verbose <interface> <overrun> <underrun>
<Etype_Drop> <Proto_Drop> <If_Down_Drop> <RX_discard> <TX_discard> <CRC> <RX_Err> <TX_Err>
} ]
```

### Syntax Description

|                          |                                       |
|--------------------------|---------------------------------------|
| show                     | Show running system information       |
| interface                | Show interface status and information |
| counters                 | Show interface counters               |
| table                    | format counters in a table            |
| verbose                  | show errors counts after counters     |
| <i>__readonly__</i>      | (Optional) Read Only                  |
| <i>TABLE_Err_verbose</i> | (Optional) verbose errors table       |
| <i>interface</i>         | (Optional) Interface                  |
| <i>overrun</i>           | (Optional) overrun                    |
| <i>underrun</i>          | (Optional) underruns                  |
| <i>Etype_Drop</i>        | (Optional) bad ether type drop        |
| <i>Proto_Drop</i>        | (Optional) bad protocol drops         |
| <i>If_Down_Drop</i>      | (Optional) Input if-down drops        |
| <i>RX_discard</i>        | (Optional) discards                   |
| <i>TX_discard</i>        | (Optional) output discard             |
| <i>CRC</i>               | (Optional) CRC                        |
| <i>RX_Err</i>            | (Optional) input errors               |
| <i>TX_Err</i>            | (Optional) output errors              |

### Command Mode

- /exec



# show interface counters trunk

```
show interface <ifeth_ctr_trnk> counters trunk [ __readonly__ TABLE_interface <interface> [
<eth_trunk_frames_tx> ] [ <eth_trunk_frames_rx> ] [ <eth_wrong_encap> ] ]
```

## Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information                       |
| interface                  | Show interface status and information                 |
| <i>ifeth_ctr_trnk</i>      | Enter interface type and number in module/slot format |
| counters                   | Show interface counters                               |
| trunk                      | Show interface trunk counters                         |
| <i>__readonly__</i>        | (Optional) Read Only                                  |
| <i>interface</i>           | (Optional) Interface index                            |
| TABLE_interface            | (Optional) show interface                             |
| <i>eth_trunk_frames_tx</i> | (Optional) Trunk frame transmitted                    |
| <i>eth_trunk_frames_rx</i> | (Optional) Trunk frames received                      |
| <i>eth_wrong_encap</i>     | (Optional) Wrong encapsulation                        |

## Command Mode

- /exec

## show interface dampening

```
show interface dampening [ __readonly__ { [ TABLE_vrf_dampen <vrf> [ TABLE_interface_dampen
<interface> <Flaps> <Penalty> <Supp> <ReuseTm> <HalfL> <ReuseV> <SuppV> <MaxSTm> <MaxP>
<Restart> ] ] } ]
```

### Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information                          |
| interface              | Show interface status and information                    |
| dampening              | Show interface dampening info                            |
| __readonly__           | (Optional) Read Only                                     |
| TABLE_vrf_dampen       | (Optional) show interface vrf dampening                  |
| vrf                    | (Optional) Vrf membership                                |
| TABLE_interface_dampen | (Optional) show interface dampening                      |
| interface              | (Optional) Interface index                               |
| Flaps                  | (Optional) Number of times that an interface has flapped |
| Penalty                | (Optional) Accumulated penalty                           |
| Supp                   | (Optional) Indicates if the interface is dampened        |
| ReuseTm                | (Optional) Reuse timer                                   |
| HalfL                  | (Optional) Half-life counter                             |
| ReuseV                 | (Optional) Reuse threshold timer                         |
| SuppV                  | (Optional) Suppress threshold                            |
| MaxSTm                 | (Optional) Maximum suppress                              |
| MaxP                   | (Optional) Maximum penalty                               |
| Restart                | (Optional) Restart timer                                 |

### Command Mode

- /exec

# show interface debounce

```
show interface debounce [ __readonly__ TABLE_interface <interface> <debounce> <debounce_val> ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information          |
| interface           | Show interface status and information    |
| debounce            | Show interface debounce time information |
| __readonly__        | (Optional) Read Only                     |
| <i>interface</i>    | (Optional) Interface index               |
| TABLE_interface     | (Optional) show interface                |
| <i>debounce</i>     | (Optional) Debounce time                 |
| <i>debounce_val</i> | (Optional) Value(ms)                     |

## Command Mode

- /exec

# show interface debounce

```
show interface <ifeth_dbnc> debounce [ __readonly__ TABLE_interface <interface> <debounce>
<debounce_val> ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                       |
| interface           | Show interface status and information                 |
| <i>ifeth_dbnc</i>   | Enter interface type and number in module/slot format |
| debounce            | Show interface debounce time information              |
| __readonly__        | (Optional) Read Only                                  |
| <i>interface</i>    | (Optional) Interface index                            |
| TABLE_interface     | (Optional) show interface                             |
| <i>debounce</i>     | (Optional) Debounce time                              |
| <i>debounce_val</i> | (Optional) Value(ms)                                  |

## Command Mode

- /exec

# show interface description

```
show interface <ifid> description [ __readonly__ <start> <if_index> <LINE> ]
```

## Syntax Description

|                 |   |
|-----------------|---|
| show            | Show running system information                 |
| interface       | Show interface status and information           |
| <i>ifid</i>     | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |
| description     | Interface specific description                  |
| __readonly__    | (Optional) Read Only                            |
| <i>start</i>    | (Optional) Start                                |
| <i>if_index</i> | (Optional) Interface                            |
| <i>LINE</i>     | (Optional) Description                          |

## Command Mode

- /exec

# show interface description

show interface <ifid\_desc1> description [ \_\_readonly\_\_ TABLE\_interface <interface\_fc> [ <desc\_fc> ] ]

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                       |
| interface           | Show interface status and information                 |
| <i>ifid_desc1</i>   | Enter interface type and number in module/slot format |
| description         | Show interface description                            |
| __readonly__        | (Optional) Read Only                                  |
| <i>interface_fc</i> | (Optional) Interface index                            |
| TABLE_interface     | (Optional) show interface                             |
| <i>desc_fc</i>      | (Optional) Description                                |

## Command Mode

- /exec

# show interface description

```
show interface description [ __readonly__ TABLE_interface <interface> [ <state> ] [ <type> ] [ <speed> ] [ <protocol> ] [ <desc> ] ]
```

## Syntax Description

|                     |                                       |
|---------------------|---------------------------------------|
| show                | Show running system information       |
| interface           | Show interface status and information |
| description         | Show interface description            |
| <i>__readonly__</i> | (Optional) Read Only                  |
| <i>interface</i>    | (Optional) Interface index            |
| TABLE_interface     | (Optional) show interface             |
| <i>state</i>        | (Optional) Interface state            |
| <i>type</i>         | (Optional) Type                       |
| <i>speed</i>        | (Optional) Speed                      |
| <i>protocol</i>     | (Optional) Protocol                   |
| <i>desc</i>         | (Optional) Description                |

## Command Mode

- /exec

# show interface description

```
show interface <ifid_mgmt_loop> description [ __readonly__ TABLE_interface <interface> [ <state> ] [
<protocol> ] [ <desc> ] ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                       |
| interface             | Show interface status and information                 |
| <i>ifid_mgmt_loop</i> | Enter interface type and number in module/slot format |
| description           | Show interface description                            |
| __readonly__          | (Optional) Read Only                                  |
| <i>interface</i>      | (Optional) Interface index                            |
| TABLE_interface       | (Optional) show interface                             |
| <i>state</i>          | (Optional) Interface state                            |
| <i>protocol</i>       | (Optional) Protocol                                   |
| <i>desc</i>           | (Optional) Description                                |

## Command Mode

- /exec



# show interface description

```
show interface <ifid_eth> description [ __readonly__ TABLE_interface <interface> [ <state> ] [ <type> ] [ <speed> ] [ <protocol> ] [ <desc> ] ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                       |
| interface           | Show interface status and information                 |
| <i>ifid_eth</i>     | Enter interface type and number in module/slot format |
| description         | Show interface description                            |
| <i>__readonly__</i> | (Optional) Read Only                                  |
| <i>interface</i>    | (Optional) Interface index                            |
| TABLE_interface     | (Optional) show interface                             |
| <i>state</i>        | (Optional) Interface state                            |
| <i>type</i>         | (Optional) Type                                       |
| <i>speed</i>        | (Optional) Speed                                      |
| <i>protocol</i>     | (Optional) Protocol                                   |
| <i>desc</i>         | (Optional) Description                                |

## Command Mode

- /exec

# show interface description

```
show interface <iftun_desc> description [ __readonly__ TABLE_interface <interface> <state> <protocol>
<desc> ]
```

## Syntax Description

|                   |                                       |
|-------------------|---------------------------------------|
| show              | Show running system information       |
| interface         | Show interface status and information |
| <i>iftun_desc</i> | Enter tunnel interface number         |
| description       | Show interface description            |
| __readonly__      | (Optional) Read Only                  |
| <i>interface</i>  | (Optional) Interface index            |
| TABLE_interface   | (Optional) show interface             |
| <i>state</i>      | (Optional) Interface state            |
| <i>protocol</i>   | (Optional) Protocol                   |
| <i>desc</i>       | (Optional) Description                |

## Command Mode

- /exec

# show interface description

```
show interface <ifrange> description [ __readonly__ TABLE_interface <interface> <state> <protocol> <desc> ]
```

## Syntax Description

|                  |                                       |
|------------------|---------------------------------------|
| show             | Show running system information       |
| interface        | Show interface status and information |
| <i>ifrange</i>   | Enter tunnel interface number         |
| description      | Show interface description            |
| __readonly__     | (Optional) Read Only                  |
| <i>interface</i> | (Optional) Interface index            |
| TABLE_interface  | (Optional) show interface             |
| <i>state</i>     | (Optional) Interface state            |
| <i>protocol</i>  | (Optional) Protocol                   |
| <i>desc</i>      | (Optional) Description                |

## Command Mode

- /exec

# show interface description

```
show interface <ifrange> description [ __readonly__ TABLE_interface <interface> <state> <protocol> <desc> ]
```

## Syntax Description

|                              |                                       |
|------------------------------|---------------------------------------|
| <code>show</code>            | Show running system information       |
| <code>interface</code>       | Show interface status and information |
| <code>ifrange</code>         | Enter tunnel interface number         |
| <code>description</code>     | Show interface description            |
| <code>__readonly__</code>    | (Optional) Read Only                  |
| <code>interface</code>       | (Optional) Interface index            |
| <code>TABLE_interface</code> | (Optional) show interface             |
| <code>state</code>           | (Optional) Interface state            |
| <code>protocol</code>        | (Optional) Protocol                   |
| <code>desc</code>            | (Optional) Description                |

## Command Mode

- /exec

## show interface detail-counters

```
show interface detail-counters [ __readonly__ [ { TABLE_counters <sfp> <in_frames> <in_bytes>
<class_2_frames> <class_2_in_bytes> <class_2_in_discards> <class_2_in_f_bsy_frames>
<class_2_in_f_rgt_frames> <class_2_in_port_reject_frames> <class_3_frames> <class_3_bytes_rcvd>
<class_f_frames> <class_f_bytes_rcvd> <class_f_in_discards> <class_f_errors_rcvd> <class_f_out_discards>
<class_f_errors_trans> <out_frames> <out_bytes> <class_2_out_frames> <class_2_bytes_trans>
<class_3_out_frames> <class_3_bytes_trans> <class_3_out_discards> <class_f_out_frames>
<class_f_bytes_trans> <class_f_discards> <muticast_rcvd> <multicast_trans> <broadcast_rcvd>
<broadcast_trans> <unicast_rcvd> <unicast_trans> <timeout_discards> <credit_loss> <link_faliures>
<sync_loss> <signal_loss> <prm_seq_pro_err> <inv_trans_err> <inv_crc> <delim_err> <addr_iden_err>
<link_reset_rcvd> <link_reset_trans> <off_seq_err_rcvd> <off_seq_err_trans> <frames_rcvd_short>
<frames_rcvd_long> <txwait> <frames_rcvd_greater> <frame_rcvd_short_header> <link_reset_resp_rcvd>
<link_reset_resp_trans> <non_oper_seq_rcvd> <non_oper_seq_trans> <frag_frames_rcvd> <frames_eof_abort>
<unknown_class_frames_rcvd> <8b10b_disparity_err> <frames_discard> <ex_link_param_sw_fab> [
<in_link_ser_req_faliures> ] <b2b_credits_transmit> <b2b_credits_receive> <eisl_frames> <framing_err>
<f8_lip_seq_err_rcvd> <f8_lip_seq_err_issued> <non_f8_lip_seq_err_rcvd> <non_f8_lip_seq_err_issued>
[ <fec_corrected> ] [ <fec_uncorrected> ] } ] [ { TABLE_interface <interface> [ <fcoe_in_pkts> ] [
<fcoe_in_octets> ] [ <fcoe_out_pkts> ] [ <fcoe_out_octets> ] } ] ] ]
```

### Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information          |
| interface                     | Show interface status and information    |
| detail-counters               | Show interface counters in detail        |
| __readonly__                  | (Optional)                               |
| TABLE_counters                | (Optional) show interface counters       |
| sfp                           | (Optional) SFP                           |
| in_frames                     | (Optional) in frames                     |
| in_bytes                      | (Optional) in bytes                      |
| class_2_frames                | (Optional) Class 2 frames                |
| class_2_in_bytes              | (Optional) Class 2 bytes received        |
| class_2_in_discards           | (Optional) Class 2 discards received     |
| class_2_in_f_bsy_frames       | (Optional) Class 2 F_BSY frames received |
| class_2_in_f_rgt_frames       | (Optional) Class 2 F_RGT frames          |
| class_2_in_port_reject_frames | (Optional) Class 2 port reject frames    |
| class_3_frames                | (Optional) Class 3 frames                |
| class_3_bytes_rcvd            | (Optional) Class 3 bytes received        |

|                             |   |
|-----------------------------|---|
| <i>class_f_frames</i>       | (Optional) Class f frames                     |
| <i>class_f_bytes_rcv</i>    | (Optional) Class F bytes received             |
| <i>class_f_in_discards</i>  | (Optional) Class F in discards                |
| <i>class_f_errors_rcvd</i>  | (Optional) Class F errors received            |
| <i>class_f_out_discards</i> | (Optional) Class F out discards               |
| <i>class_f_errors_trans</i> | (Optional) Class F errors transmitted         |
| <i>out_frames</i>           | (Optional) Out frames                         |
| <i>out_bytes</i>            | (Optional) Out bytes                          |
| <i>class_2_out_frames</i>   | (Optional) Class 2 frames transmitted         |
| <i>class_2_bytes_trans</i>  | (Optional) Class 2 bytes transmitted          |
| <i>class_3_out_frames</i>   | (Optional) Class 3 frames transmitted         |
| <i>class_3_bytes_trans</i>  | (Optional) Class 3 bytes transmitted          |
| <i>class_3_out_discards</i> | (Optional) Class 3 out discards               |
| <i>class_f_out_frames</i>   | (Optional) Class F out frames                 |
| <i>class_f_bytes_trans</i>  | (Optional) Class F bytes transmitted          |
| <i>class_f_discards</i>     | (Optional) Class F discards                   |
| <i>multicast_rcvd</i>       | (Optional) Multicast received                 |
| <i>multicast_trans</i>      | (Optional) Multicast transmitted              |
| <i>broadcast_rcvd</i>       | (Optional) Broadcast received                 |
| <i>broadcast_trans</i>      | (Optional) Broadcast transmitted              |
| <i>unicast_rcvd</i>         | (Optional) Unicast received                   |
| <i>unicast_trans</i>        | (Optional) Unicast transmitted                |
| <i>timeout_discards</i>     | (Optional) timeout discards                   |
| <i>credit_loss</i>          | (Optional) credit loss                        |
| <i>link_faliures</i>        | (Optional) Link faliures                      |
| <i>sync_loss</i>            | (Optional) Sync Loss                          |
| <i>signal_loss</i>          | (Optional) Signal Loss                        |
| <i>prm_seq_pro_err</i>      | (Optional) primitive sequence protocol errors |
| <i>inv_trans_err</i>        | (Optional) invaid transmission errors         |

|                                  |   |
|----------------------------------|---|
| <i>inv_crc</i>                   | (Optional) Invalid crc  |
| <i>delim_err</i>                 | (Optional) Delimiter Errors   |
| <i>addr_iden_err</i>             | (Optional) Address Identification errors  |
| <i>link_reset_rcvd</i>           | (Optional) link reset received  |
| <i>link_reset_trans</i>          | (Optional) link reset transmitted   |
| <i>off_seq_err_rcvd</i>          | (Optional) Offline sequence error received  |
| <i>off_seq_err_trans</i>         | (Optional) Offline sequence Error transmitted   |
| <i>frames_rcvd_short</i>         | (Optional) frames received that are shorter than the minimum allowable frame length regardless of the CRC/FCS error |
| <i>frames_rcvd_long</i>          | (Optional) frames received that are longer than the minimum allowable frame length regardless of the CRC/FCS error  |
| <i>txwait</i>                    | (Optional) TXwait   |
| <i>frames_rcvd_greater</i>       | (Optional) frames received with length greater than what was agreed to in FLOGI/PLOGI                               |
| <i>frame_rcvd_short_header</i>   | (Optional) frames received with length less than the minimum indicated by the frame header                          |
| <i>link_reset_resp_rcvd</i>      | (Optional) Link reset responses received  |
| <i>link_reset_resp_trans</i>     | (Optional) Link reset responses transmitted   |
| <i>non_oper_seq_rcvd</i>         | (Optional) Non operational sequence received  |
| <i>non_oper_seq_trans</i>        | (Optional) Non operational sequence transmitted   |
| <i>frag_frames_rcvd</i>          | (Optional) fragmented frames received   |
| <i>frames_eof_abort</i>          | (Optional) frames EOF abort   |
| <i>unknown_class_frames_rcvd</i> | (Optional) unknown class frames received  |
| <i>8b10b_disparity_err</i>       | (Optional) 8b10b disparity errors   |
| <i>frames_discard</i>            | (Optional) frames discard   |
| <i>ex_link_param_sw_fab</i>      | (Optional) external link parameters switch fabric   |
| <i>in_link_ser_req_faliures</i>  | (Optional) internal link serial request faliures  |
| <i>b2b_credits_transmit</i>      | (Optional) B2B credits transmit   |
| <i>b2b_credits_receive</i>       | (Optional) B2B credits receive  |
| <i>eisl_frames</i>               | (Optional) EISL frames  |

|                                  |   |
|----------------------------------|---|
| <i>framing_err</i>               | (Optional) Framing Error                      |
| <i>f8_lip_seq_err_rcvd</i>       | (Optional) f8 LIP sequence error received     |
| <i>f8_lip_seq_err_issued</i>     | (Optional) f8 LIP sequence error issued       |
| <i>non_f8_lip_seq_err_rcvd</i>   | (Optional) non f8 LIP sequence error received |
| <i>non_f8_lip_seq_err_issued</i> | (Optional) non f8 LIP sequence error issued   |
| <i>fec_corrected</i>             | (Optional) fec corrected blocks               |
| <i>fec_uncorrected</i>           | (Optional) fec uncorrected blocks             |
| TABLE_interface                  | (Optional) interface                          |
| <i>interface</i>                 | (Optional) interface                          |
| <i>fcoe_in_pkts</i>              | (Optional) fcoe in pkts                       |
| <i>fcoe_in_octets</i>            | (Optional) fcoe in octets                     |
| <i>fcoe_out_pkts</i>             | (Optional) fcoe out pkts                      |
| <i>fcoe_out_octets</i>           | (Optional) fcoe out octets                    |

**Command Mode**

- /exec



## show interface fcoe

```
show interface <ifeth_fcoe> fcoe [ __readonly__ TABLE_interface <interface> [ <state> ] [ <vfc> ] [ <vfc_bound> ] ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information                       |
| interface              | Show interface status and information                 |
| <i>ifeth_fcoe</i>      | Enter interface type and number in module/slot format |
| fcoe                   | Show interface fcoe information                       |
| <i>__readonly__</i>    | (Optional) Read Only                                  |
| <i>TABLE_interface</i> | (Optional) show interface                             |
| <i>interface</i>       | (Optional) Interface index                            |
| <i>state</i>           | (Optional) State of interface                         |
| <i>vfc</i>             | (Optional) VFC  |
| <i>vfc_bound</i>       | (Optional) Binding information                        |

### Command Mode

- /exec

# show interface fec

```
show interface fec [ __readonly__ TABLE_interface <interface> [ <ifindex-hex> ] [ <admin_port_fec> ] [ <oper_port_fec> ] [ <state> ] [ <speed> ] [ <type> ] ]
```

## Syntax Description

|                        |                                       |
|------------------------|---------------------------------------|
| <i>show</i>            | Show running system information       |
| <i>interface</i>       | Show interface status and information |
| <i>fec</i>             | Show interface fec list               |
| <i>__readonly__</i>    | (Optional) Read Only                  |
| <i>interface</i>       | (Optional) Interface index            |
| <i>TABLE_interface</i> | (Optional) show interface             |
| <i>ifindex-hex</i>     | (Optional) If Index in Hex            |
| <i>admin_port_fec</i>  | (Optional) Admin port fec state       |
| <i>oper_port_fec</i>   | (Optional) Oper port fec state        |
| <i>state</i>           | (Optional) Interface state            |
| <i>speed</i>           | (Optional) Speed                      |
| <i>type</i>            | (Optional) Type                       |

## Command Mode

- /exec

# show interface flowcontrol

```
show interface <ifeth_fl_ctrl> flowcontrol [ __readonly__ TABLE_interface <interface> <send_admin>
<send_oper> <recv_admin> <recv_oper> <rxpause> <txpause> ]
```

## Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information                       |
| interface            | Show interface status and information                 |
| <i>ifeth_fl_ctrl</i> | Enter interface type and number in module/slot format |
| flowcontrol          | Show interface flowcontrol information                |
| <i>__readonly__</i>  | (Optional) Read Only                                  |
| <i>interface</i>     | (Optional) Interface index                            |
| TABLE_interface      | (Optional) show interface                             |
| <i>send_admin</i>    | (Optional) Send flowcontrol admin                     |
| <i>send_oper</i>     | (Optional) Send flowcontrol oper                      |
| <i>recv_admin</i>    | (Optional) Receive flowcontrol admin                  |
| <i>recv_oper</i>     | (Optional) Receive flowcontrol oper                   |
| <i>rxpause</i>       | (Optional) RxPause                                    |
| <i>txpause</i>       | (Optional) TxPause                                    |

## Command Mode

- /exec

# show interface flowcontrol

```
show interface flowcontrol [ module <module> ] [ __readonly__ TABLE_interface <interface> <send_admin>
<send_oper> <recv_admin> <recv_oper> <rxpause> <txpause> ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                  |
| interface           | Show interface status and information            |
| flowcontrol         | Show interface flowcontrol information           |
| module              | (Optional) Limit display to interfaces on module |
| <i>module</i>       | (Optional) Enter module number                   |
| <i>__readonly__</i> | (Optional) Read Only                             |
| <i>interface</i>    | (Optional) Interface index                       |
| TABLE_interface     | (Optional) show interface                        |
| <i>send_admin</i>   | (Optional) Send flowcontrol admin                |
| <i>send_oper</i>    | (Optional) Send flowcontrol oper                 |
| <i>recv_admin</i>   | (Optional) Receive flowcontrol admin             |
| <i>recv_oper</i>    | (Optional) Receive flowcontrol oper              |
| <i>rxpause</i>      | (Optional) RxPause                               |
| <i>txpause</i>      | (Optional) TxPause                               |

## Command Mode

- /exec

# show interface mac-address

```
show interface <ifid_macaddr> mac-address [ __readonly__ TABLE_interface <interface> <address>
<bia_address> ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                       |
| interface           | Show interface status and information                 |
| <i>ifid_macaddr</i> | Enter interface type and number in module/slot format |
| mac-address         | Show interface MAC address                            |
| __readonly__        | (Optional) Read Only                                  |
| TABLE_interface     | (Optional) show interface                             |
| <i>interface</i>    | (Optional) Interface index                            |
| <i>address</i>      | (Optional) MAC Address                                |
| <i>bia_address</i>  | (Optional) Burn-In MAC Address                        |

## Command Mode

- /exec

# show interface mac-address

show interface mac-address [ *\_\_readonly\_\_* *TABLE\_interface* <interface> <address> <bia\_address> ]

## Syntax Description

|                        |                                       |
|------------------------|---------------------------------------|
| show                   | Show running system information       |
| interface              | Show interface status and information |
| mac-address            | Show interface MAC address            |
| <i>__readonly__</i>    | (Optional) Read Only                  |
| <i>TABLE_interface</i> | (Optional) show interface             |
| <i>interface</i>       | (Optional) Interface index            |
| <i>address</i>         | (Optional) MAC Address                |
| <i>bia_address</i>     | (Optional) Burn-In MAC Address        |

## Command Mode

- /exec

# show interface priority-flow-control

```
show interface [ <if_list> ] priority-flow-control [ detail ] [ module <module> ] [ __readonly__ [
TABLE_pfc_interface <if_name_str> <admin> <oper> [ <cos-list> ] <rx-stats> <tx-stats> [ <rx_ppp_cos_0>
] [ <rx_ppp_cos_1> ] [ <rx_ppp_cos_2> ] [ <rx_ppp_cos_3> ] [ <rx_ppp_cos_4> ] [ <rx_ppp_cos_5> ] [
<rx_ppp_cos_6> ] [ <rx_ppp_cos_7> ] [ <tx_ppp_cos_0> ] [ <tx_ppp_cos_1> ] [ <tx_ppp_cos_2> ] [
<tx_ppp_cos_3> ] [ <tx_ppp_cos_4> ] [ <tx_ppp_cos_5> ] [ <tx_ppp_cos_6> ] [ <tx_ppp_cos_7> ] ] ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | commands to display  |
| interface             | Interface for displaying pfc information                   |
| <i>if_list</i>        | (Optional) List of interfaces                              |
| module                | (Optional) Slot/module                                     |
| <i>module</i>         | (Optional) Slot/module number                              |
| priority-flow-control | Show interface PFC information                             |
| detail                | (Optional) Show detailed per priority Tx/Rx PFC statistics |
| __readonly__          | (Optional)   |
| <i>if_name_str</i>    | (Optional) interface name                                  |
| TABLE_pfc_interface   | (Optional) PFC information of an interface                 |
| <i>admin</i>          | (Optional) PFC admin                                       |
| <i>oper</i>           | (Optional) PFC oper  |
| <i>cos-list</i>       | (Optional) List of class-of-service values                 |

## Command Mode

- /exec

## show interface private-vlan mapping

```
show interface [ <if> ] private-vlan mapping [ __readonly__ [ <output-filtered> ] [ { TABLE_interf_mapp
<interface-id> [ <secondary-vlan> + ] [ <pvlan-type> } } ] ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information                     |
| interface              | Show interface status and information               |
| <i>if</i>              | (Optional) Vlan Interface number                    |
| private-vlan           | Show interface private vlan information             |
| mapping                | Show interface private vlan information             |
| <i>__readonly__</i>    | (Optional) Read Only                                |
| <i>output-filtered</i> | (Optional) the output is filtered for specified ifs |
| TABLE_interf_mapp      | (Optional) Pvlan interface mapping table            |
| <i>interface-id</i>    | (Optional) Interface                                |
| <i>secondary-vlan</i>  | (Optional) Secondary Vlan                           |
| <i>pvlan-type</i>      | (Optional) PVLAN Type                               |

### Command Mode

- /exec



# show interface pruning

```
show interface pruning [ __readonly__ <start> { TABLE_interface_pruning1 <if_index1> <rx_join> } {
TABLE_interface_pruning2 <if_index2> <cur_join> } ]
```

## Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information                          |
| interface                | Show interface status and information                    |
| pruning                  | Show interface trunk VTP pruning information             |
| <i>__readonly__</i>      | (Optional) Read Only                                     |
| <i>start</i>             | (Optional) Start   |
| TABLE_interface_pruning1 | (Optional) Interface pruning information in table format |
| <i>if_index1</i>         | (Optional) Trunk   |
| <i>rx_join</i>           | (Optional) Vlans pruned for lack of request by neighbor  |
| TABLE_interface_pruning2 | (Optional) Interface pruning information in table format |
| <i>if_index2</i>         | (Optional) Trunk   |
| <i>cur_join</i>          | (Optional) Vlan traffic requested of neighbor            |

## Command Mode

- /exec

# show interface snmp-ifindex

```
show interface snmp-ifindex [ __readonly__ TABLE_interface <interface> <snmp-ifindex> [ <ifindex-hex> ] ]
```

## Syntax Description

|                     |                                       |
|---------------------|---------------------------------------|
| show                | Show running system information       |
| interface           | Show interface status and information |
| snmp-ifindex        | Show snmp ifindex list                |
| __readonly__        | (Optional) Read Only                  |
| <i>interface</i>    | (Optional) Interface index            |
| TABLE_interface     | (Optional) show interface             |
| <i>ifindex-hex</i>  | (Optional) If Index in Hex            |
| <i>snmp-ifindex</i> | (Optional) If Index in Dec            |

## Command Mode

- /exec

# show interface status

```
show interface <ifid_status> status [ __readonly__ TABLE_interface <interface> [ <name> ] [ <state> ] [ <vlan> ] [ <duplex> ] [ <speed> ] [ <type> ] ]
```

## Syntax Description

|                              |   |
|------------------------------|---|
| <code>show</code>            | Show running system information                       |
| <code>interface</code>       | Show interface status and information                 |
| <i>ifid_status</i>           | Enter interface type and number in module/slot format |
| <code>status</code>          | Show interface line status                            |
| <code>__readonly__</code>    | (Optional) Read Only                                  |
| <i>interface</i>             | (Optional) Interface index                            |
| <code>TABLE_interface</code> | (Optional) show interface                             |
| <i>name</i>                  | (Optional) Name                                       |
| <i>state</i>                 | (Optional) Interface state                            |
| <i>vlan</i>                  | (Optional) Vlan                                       |
| <i>duplex</i>                | (Optional) Duplex                                     |
| <i>speed</i>                 | (Optional) Speed                                      |
| <i>type</i>                  | (Optional) Type                                       |

## Command Mode

- /exec

# show interface status

show interface <ifid> status [ \_\_readonly\_\_ <start> <if\_index> <admin-state> <line-proto> ]

## Syntax Description

|                    |   |
|--------------------|---|
| show               | Show running system information                 |
| interface          | Show interface status and information           |
| <i>ifid</i>        | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |
| status             | Interface status                                |
| __readonly__       | (Optional) Read Only                            |
| <i>start</i>       | (Optional) Start                                |
| <i>if_index</i>    | (Optional) Interface                            |
| <i>admin-state</i> | (Optional)                                      |
| <i>line-proto</i>  | (Optional)                                      |

## Command Mode

- /exec

## show interface status

```
show interface status [ down | inactive | module <module> | up | auto-column ] [ __readonly__ TABLE interface
<interface> [ <name> ] [ <state> ] [ <state_san> ] [ <state_rsn> ] [ <vlan> ] [ <duplex> ] [ <speed> ] [ <type>
] [ <admin_mode> ] [ <vsan> ] [ <bind_info> ] [ <bind_type> ] [ <bind_mac> ] [ <oper_speed> ] ]
```

### Syntax Description

|                  |  |
|------------------|--|
| show             | Show running system information                  |
| interface        | Show interface status and information            |
| status           | Show interface line status                       |
| down             | (Optional) Show interface down state             |
| inactive         | (Optional) Show interface inactive state         |
| auto-column      | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED        |
| module           | (Optional) Limit display to interfaces on module |
| <i>module</i>    | (Optional) Enter module number                   |
| up               | (Optional) Show interface up state               |
| __readonly__     | (Optional) Read Only                             |
| <i>interface</i> | (Optional) Interface index                       |
| TABLE_interface  | (Optional) show interface                        |
| <i>name</i>      | (Optional) Name                                  |
| <i>state</i>     | (Optional) Interface state                       |
| <i>state_san</i> | (Optional) SAN Port State                        |
| <i>vlan</i>      | (Optional) Vlan                                  |
| <i>vsan</i>      | (Optional) Vsan                                  |
| <i>duplex</i>    | (Optional) Duplex                                |
| <i>speed</i>     | (Optional) Speed                                 |
| <i>type</i>      | (Optional) Type                                  |
| <i>state_rsn</i> | (Optional) Port State Reason                     |
| <i>bind_info</i> | (Optional) bind interface                        |
| <i>bind_type</i> | (Optional) bind type                             |
| <i>bind_mac</i>  | (Optional) bind mac                              |

|                   |                       |
|-------------------|-----------------------|
| <i>oper_speed</i> | (Optional) speed      |
| <i>admin_mode</i> | (Optional) admin mode |

**Command Mode**

- /exec

# show interface status

```
show interface <ifeth_status> status [ __readonly__ TABLE_interface <interface> [ <name> ] [ <state> ] [
<vlan> ] <duplex> <speed> [ <type> ] ]
```

## Syntax Description

|                              |   |
|------------------------------|---|
| <code>show</code>            | Show running system information                       |
| <code>interface</code>       | Show interface status and information                 |
| <i>ifeth_status</i>          | Enter interface type and number in module/slot format |
| <code>status</code>          | Show interface line status                            |
| <code>__readonly__</code>    | (Optional) Read Only                                  |
| <i>interface</i>             | (Optional) Interface index                            |
| <code>TABLE_interface</code> | (Optional) show interface                             |
| <i>name</i>                  | (Optional) Name                                       |
| <i>state</i>                 | (Optional) Interface state                            |
| <i>vlan</i>                  | (Optional) Vlan                                       |
| <i>duplex</i>                | (Optional) Duplex                                     |
| <i>speed</i>                 | (Optional) Speed                                      |
| <i>type</i>                  | (Optional) Type                                       |

## Command Mode

- /exec

## show interface status

```
show interface <iftun_status> status [ err-disabled ] [ __readonly__ TABLE_interface <interface> <name>
<state> <state_rsn> <state_rsn_desc> ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                |
| interface             | Show interface status and information          |
| <i>iftun_status</i>   | Enter tunnel interface number                  |
| status                | Show interface line status                     |
| err-disabled          | (Optional) Show interface error disabled state |
| __readonly__          | (Optional) Read Only                           |
| <i>interface</i>      | (Optional) Interface index                     |
| TABLE_interface       | (Optional) show interface                      |
| <i>name</i>           | (Optional) Name                                |
| <i>state</i>          | (Optional) Interface state                     |
| <i>state_rsn</i>      | (Optional) Interface state reason              |
| <i>state_rsn_desc</i> | (Optional) Interface state reason detailed     |

### Command Mode

- /exec



# show interface status

```
show interface <ifrange> status [ err-disabled ] [ __readonly__ TABLE_interface <interface> <name> <state>
<state_rsn> <state_rsn_desc> ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                |
| interface             | Show interface status and information          |
| <i>ifrange</i>        | Enter tunnel interface number                  |
| status                | Show interface line status                     |
| err-disabled          | (Optional) Show interface error disabled state |
| __readonly__          | (Optional) Read Only                           |
| <i>interface</i>      | (Optional) Interface index                     |
| TABLE_interface       | (Optional) show interface                      |
| <i>name</i>           | (Optional) Name                                |
| <i>state</i>          | (Optional) Interface state                     |
| <i>state_rsn</i>      | (Optional) Interface state reason              |
| <i>state_rsn_desc</i> | (Optional) Interface state reason detailed     |

## Command Mode

- /exec

## show interface status

```
show interface <ifrange> status [ err-disabled ] [ __readonly__ TABLE_interface <interface> <name> <state>
<state_rsn> <state_rsn_desc> <admin_state> ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                |
| interface             | Show interface status and information          |
| <i>ifrange</i>        | Enter tunnel interface number                  |
| status                | Show interface line status                     |
| err-disabled          | (Optional) Show interface error disabled state |
| __readonly__          | (Optional) Read Only                           |
| <i>interface</i>      | (Optional) Interface index                     |
| TABLE_interface       | (Optional) show interface                      |
| <i>name</i>           | (Optional) Name                                |
| <i>state</i>          | (Optional) Interface state                     |
| <i>state_rsn</i>      | (Optional) Interface state reason              |
| <i>state_rsn_desc</i> | (Optional) Interface state reason detailed     |
| <i>admin_state</i>    | (Optional) admin state                         |

### Command Mode

- /exec

# show interface status err-disabled

```
show interface <ifeth_errdis> status err-disabled [ __readonly__ TABLE_interface <interface> [ <name> ]
<state> [ <state_rsn> ] [ <state_rsn_desc> ] ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                       |
| interface             | Show interface status and information                 |
| status                | Show interface line status                            |
| <i>ifeth_errdis</i>   | Enter interface type and number in module/slot format |
| err-disabled          | Show interface error disabled state                   |
| <i>__readonly__</i>   | (Optional) Read Only                                  |
| <i>interface</i>      | (Optional) Interface index                            |
| TABLE_interface       | (Optional) show interface                             |
| <i>name</i>           | (Optional) Name                                       |
| <i>state</i>          | (Optional) Interface state                            |
| <i>state_rsn</i>      | (Optional) Interface state reason                     |
| <i>state_rsn_desc</i> | (Optional) Interface state reason detailed            |

## Command Mode

- /exec

## show interface status err-disabled

```
show interface status err-disabled [ __readonly__ TABLE_interface <interface> [ <name> ] <state> [
<state_rsn> ] [ <state_rsn_desc> ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information            |
| interface             | Show interface status and information      |
| status                | Show interface line status                 |
| err-disabled          | Show interface error disabled state        |
| __readonly__          | (Optional) Read Only                       |
| <i>interface</i>      | (Optional) Interface index                 |
| TABLE_interface       | (Optional) show interface                  |
| <i>name</i>           | (Optional) Name                            |
| <i>state</i>          | (Optional) Interface state                 |
| <i>state_rsn</i>      | (Optional) Interface state reason          |
| <i>state_rsn_desc</i> | (Optional) Interface state reason detailed |

### Command Mode

- /exec

## show interface status err-vlans

```
show interface <ifeth_errvlans> status err-vlans [ __readonly__ TABLE_interface <interface> [ <name> ] [
{ TABLE_vlan [ <err_vlan> ] [ <err_vlan_status> ] [ <err_vlan_syserr> ] } ] ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information                       |
| interface              | Show interface status and information                 |
| <i>ifeth_errvlans</i>  | Enter interface type and number in module/slot format |
| status                 | Show interface line status                            |
| err-vlans              | Show errored vlans                                    |
| <u>__readonly__</u>    | (Optional) Read Only                                  |
| <i>interface</i>       | (Optional) Interface index                            |
| TABLE_interface        | (Optional) show interface                             |
| <i>name</i>            | (Optional) Name                                       |
| TABLE_vlan             | (Optional) show vlan                                  |
| <i>err_vlan</i>        | (Optional) Errored vlan                               |
| <i>err_vlan_status</i> | (Optional) Errored vlan status                        |
| <i>err_vlan_syserr</i> | (Optional) Errored vlan syserr name                   |

### Command Mode

- /exec

## show interface status err-vlans

```
show interface status err-vlans [ __readonly__ TABLE_interface <interface> [ <name> ] { TABLE_vlan
<err_vlan> <err_vlan_status> <err_vlan_syserr> } ]
```

### Syntax Description

|                        |                                       |
|------------------------|---------------------------------------|
| show                   | Show running system information       |
| interface              | Show interface status and information |
| status                 | Show interface line status            |
| err-vlans              | Show errored vlans                    |
| __readonly__           | (Optional) Read Only                  |
| <i>interface</i>       | (Optional) Interface index            |
| TABLE_interface        | (Optional) show interface             |
| <i>name</i>            | (Optional) Name                       |
| TABLE_vlan             | (Optional) show vlan                  |
| <i>err_vlan</i>        | (Optional) Errored vlan               |
| <i>err_vlan_status</i> | (Optional) Errored vlan status        |
| <i>err_vlan_syserr</i> | (Optional) Errored vlan syserr name   |

### Command Mode

- /exec

# show interface switchport

```
show interface <ifeth_swth> switchport [ __readonly__ TABLE_interface <interface> <switchport> [
<switchport_monitor> ] [ <switchport_isolated> ] [ <switchport_block_multicast> ] [
<switchport_block_unicast> ] [ <oper_mode> ] [ <access_vlan> ] [ <access_vlan_name> ] [ <native_vlan>
] [ <native_vlan_name> ] [ <trunk_vlans> ] [ <fabricpath_topologies> ] [ <pruning_vlans> ] [ <voice_vlan>
] [ <voice_vlan_name> ] [ <extended_trust> ] [ <extended_trust_name> ] [ <admin_pvlan_pri_assoc> ] [
<admin_pvlan_sec_assoc> ] [ <admin_pvlan_pri_mapping> ] [ <admin_pvlan_sec_mapping> ] [
<admin_pvlan_trunk_native> ] [ <admin_pvlan_trunk_encap> ] [ <admin_pvlan_trunk_normal> ] [
<admin_pvlan_trunk_private> ] [ <oper_pvlan> ] [ <autostate_mode> ] ]
```

## Syntax Description

|                                   |   |
|-----------------------------------|---|
| show                              | Show running system information                       |
| interface                         | Show interface status and information                 |
| <i>ifeth_swth</i>                 | Enter interface type and number in module/slot format |
| switchport                        | Show interface switchport information                 |
| <i>__readonly__</i>               | (Optional) Read Only                                  |
| <i>TABLE_interface</i>            | (Optional) show interface                             |
| <i>interface</i>                  | (Optional) Interface index                            |
| <i>switchport</i>                 | (Optional) Switchport enabled                         |
| <i>switchport_monitor</i>         | (Optional) Switchport monitor enabled                 |
| <i>switchport_isolated</i>        | (Optional) Switchport isolated enabled                |
| <i>switchport_block_multicast</i> | (Optional) Switchport monitor enabled                 |
| <i>switchport_block_unicast</i>   | (Optional) Switchport monitor enabled                 |
| <i>oper_mode</i>                  | (Optional) Operational mode                           |
| <i>access_vlan</i>                | (Optional) Access mode VLAN                           |
| <i>access_vlan_name</i>           | (Optional) Access mode VLAN name                      |
| <i>native_vlan</i>                | (Optional) Trunking native mode VLAN                  |
| <i>native_vlan_name</i>           | (Optional) Trunking native mode VLAN name             |
| <i>trunk_vlans</i>                | (Optional) Trunking VLANs Allowed                     |
| <i>fabricpath_topologies</i>      | (Optional) FabricPath Topologies Allowed              |
| <i>pruning_vlans</i>              | (Optional) Pruning eligible VLANs                     |
| <i>voice_vlan</i>                 | (Optional) Voice VLAN                                 |

|                                  |   |
|----------------------------------|---|
| <i>voice_vlan_name</i>           | (Optional) Voice VLAN name  |
| <i>extended_trust</i>            | (Optional) Extended Trust   |
| <i>extended_trust_name</i>       | (Optional) Extended Trust name                                    |
| <i>admin_pvlan_pri_assoc</i>     | (Optional) Administrative private-vlan primary host-association   |
| <i>admin_pvlan_sec_assoc</i>     | (Optional) Administrative private-vlan secondary host-association |
| <i>admin_pvlan_pri_mapping</i>   | (Optional) Administrative private-vlan primary mapping            |
| <i>admin_pvlan_sec_mapping</i>   | (Optional) Administrative private-vlan secondary mapping          |
| <i>admin_pvlan_trunk_native</i>  | (Optional) Administrative private-vlan trunk native VLAN          |
| <i>admin_pvlan_trunk_encap</i>   | (Optional) Administrative private-vlan trunk encapsulation        |
| <i>admin_pvlan_trunk_normal</i>  | (Optional) Administrative private-vlan trunk normal VLANs         |
| <i>admin_pvlan_trunk_private</i> | (Optional) Administrative private-vlan trunk private VLANs        |
| <i>oper_pvlan</i>                | (Optional) Operational private-vlan                               |
| <i>autostate_mode</i>            | (Optional) SVI Autostate Exclude Info                             |

### Command Mode

- /exec



# show interface switchport

```
show interface switchport [ __readonly__ ] [ TABLE_interface ] <interface> <switchport> [ <switchport_monitor> ] [ <switchport_isolated> ] [ <switchport_block_multicast> ] [ <switchport_block_unicast> ] [ <mac_learning> ] [ <oper_mode> ] [ <access_vlan> ] [ <access_vlan_name> ] [ <native_vlan> ] [ <native_vlan_name> ] [ <trunk_vlans> ] [ <fabricpath_topologies> ] [ <pruning_vlans> ] [ <voice_vlan> ] [ <voice_vlan_name> ] [ <extended_trust> ] [ <extended_trust_name> ] [ <admin_pvlan_pri_assoc> ] [ <admin_pvlan_sec_assoc> ] [ <admin_pvlan_pri_mapping> ] [ <admin_pvlan_sec_mapping> ] [ <admin_pvlan_trunk_native> ] [ <admin_pvlan_trunk_encap> ] [ <admin_pvlan_trunk_normal> ] [ <admin_pvlan_trunk_private> ] [ <oper_pvlan> ] [ <autostate_mode> ] ]
```

## Syntax Description

|                                   |   |
|-----------------------------------|---|
| show                              | Show running system information           |
| interface                         | Show interface status and information     |
| switchport                        | Show interface switchport information     |
| <i>__readonly__</i>               | (Optional) Read Only                      |
| <i>TABLE_interface</i>            | (Optional) show interface                 |
| <i>interface</i>                  | (Optional) Interface index                |
| <i>switchport</i>                 | (Optional) Switchport enabled             |
| <i>switchport_monitor</i>         | (Optional) Switchport monitor enabled     |
| <i>switchport_isolated</i>        | (Optional) Switchport isolated enabled    |
| <i>mac_learning</i>               | (Optional) Mac learning enabled/disabled  |
| <i>switchport_block_multicast</i> | (Optional) Switchport monitor enabled     |
| <i>switchport_block_unicast</i>   | (Optional) Switchport monitor enabled     |
| <i>oper_mode</i>                  | (Optional) Operational mode               |
| <i>access_vlan</i>                | (Optional) Access mode VLAN               |
| <i>access_vlan_name</i>           | (Optional) Access mode VLAN name          |
| <i>native_vlan</i>                | (Optional) Trunking native mode VLAN      |
| <i>native_vlan_name</i>           | (Optional) Trunking native mode VLAN name |
| <i>trunk_vlans</i>                | (Optional) Trunking VLANs Allowed         |
| <i>fabricpath_topologies</i>      | (Optional) FabricPath Topologies Allowed  |
| <i>pruning_vlans</i>              | (Optional) Pruning eligible VLANs         |
| <i>voice_vlan</i>                 | (Optional) Voice VLAN                     |

|                                  |   |
|----------------------------------|---|
| <i>voice_vlan_name</i>           | (Optional) Voice VLAN name  |
| <i>extended_trust</i>            | (Optional) Extended Trust   |
| <i>extended_trust_name</i>       | (Optional) Extended Trust name                                    |
| <i>admin_pvlan_pri_assoc</i>     | (Optional) Administrative private-vlan primary host-association   |
| <i>admin_pvlan_sec_assoc</i>     | (Optional) Administrative private-vlan secondary host-association |
| <i>admin_pvlan_pri_mapping</i>   | (Optional) Administrative private-vlan primary mapping            |
| <i>admin_pvlan_sec_mapping</i>   | (Optional) Administrative private-vlan secondary mapping          |
| <i>admin_pvlan_trunk_native</i>  | (Optional) Administrative private-vlan trunk native VLAN          |
| <i>admin_pvlan_trunk_encap</i>   | (Optional) Administrative private-vlan trunk encapsulation        |
| <i>admin_pvlan_trunk_normal</i>  | (Optional) Administrative private-vlan trunk normal VLANs         |
| <i>admin_pvlan_trunk_private</i> | (Optional) Administrative private-vlan trunk private VLANs        |
| <i>oper_pvlan</i>                | (Optional) Operational private-vlan                               |
| <i>autostate_mode</i>            | (Optional) SVI Autostate Exclude Info                             |

### Command Mode

- /exec

# show interface switchport backup

```
show interface switchport backup [ detail ] [ __readonly__ { TABLE_pair <ai_name> <bi_name> <ai_state>
<bi_state> <ai_prefer> <bi_prefer> <preempt_mode> <delay_value> <delay_default> <delay_scheduled>
<mcast_fast> <ai_bw> <ai_bw_name> <bi_bw> <bi_bw_name> <mmu_primary> } ]
```

## Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information                |
| interface              | Show interface status and information          |
| switchport             | Show interface switchport information          |
| backup                 | Show interface backup                          |
| detail                 | (Optional) Backup interface info in detail     |
| <i>__readonly__</i>    | (Optional) Read Only                           |
| TABLE_pair             | (Optional) Show interface backup               |
| <i>ai_name</i>         | (Optional) Active Interface name               |
| <i>bi_name</i>         | (Optional) Backup Interface name               |
| <i>ai_state</i>        | (Optional) Active Interface state              |
| <i>bi_state</i>        | (Optional) Backup Interface state              |
| <i>ai_prefer</i>       | (Optional) Active Interface prefer VLANs       |
| <i>bi_prefer</i>       | (Optional) Backup Interface prefer VLANs       |
| <i>preempt_mode</i>    | (Optional) Preempt mode                        |
| <i>delay_value</i>     | (Optional) Preempt delay                       |
| <i>delay_default</i>   | (Optional) Preempt delay value is default      |
| <i>delay_scheduled</i> | (Optional) Preemption has been scheduled       |
| <i>mcast_fast</i>      | (Optional) Multicast Fast-Convergence          |
| <i>ai_bw</i>           | (Optional) Active Interface bandwidth          |
| <i>ai_bw_name</i>      | (Optional) Active Interface name for bandwidth |
| <i>bi_bw</i>           | (Optional) Backup Interface bandwidth          |
| <i>bi_bw_name</i>      | (Optional) Backup Interface name for bandwidth |
| <i>mmu_primary</i>     | (Optional) MAC Move Update primary VLAN        |

## Command Mode

**show interface switchport backup**

- /exec

## show interface transceiver

```

show interface transceiver [ calibrations | details ] [ __readonly__ TABLE_interface <interface> [ <sfp> ] [
<qsfp_or_cfp> ] [ <type> ] [ <name> ] [ <partnum> ] [ <rev> ] [ <serialnum> ] [ <nom_bitrate> ] [ <len_9>
] [ <len_50> ] [ <len_625> ] [ <len_cu> ] [ <len_50_OM3> ] [ <txcvr_type> ] [ <connector_type> ] [
<bit_encoding> ] [ <protocol_type> ] [ <10gbe_code> ] [ <fiber_type_byte0> ] [ <fiber_type_byte1> ] [
<tx_type> ] [ <tx_len> ] [ <tx_medium> ] [ <tx_speeds> ] [ <tx_range> ] [ <cable_type> ] [ <ciscoid> ] [
<ciscoid_1> ] [ <cisco_part_number> ] [ <cisco_product_id> ] [ <cisco_vendor_id> ] [ <cisco_ext_id> ] [
<info_not_available> ] [ <temp_slope> ] [ <temp_offset> ] [ <volt_slope> ] [ <volt_offset> ] [ <curr_slope>
] [ <curr_offset> ] [ <tx_pwr_slope> ] [ <tx_pwr_offset> ] [ <rx_pwr_4> ] [ <rx_pwr_3> ] [ <rx_pwr_2> ] [
<rx_pwr_1> ] [ <rx_pwr_0> ] [ TABLE_lane [ <lane_number> ] [ <temperature> ] [ <temp_flag> ] [
<temp_alm_hi> ] [ <temp_alm_lo> ] [ <temp_warn_hi> ] [ <temp_warn_lo> ] [ <voltage> ] [ <volt_flag>
] [ <volt_alm_hi> ] [ <volt_alm_lo> ] [ <volt_warn_hi> ] [ <volt_warn_lo> ] [ <current> ] [ <current_flag>
] [ <current_alm_hi> ] [ <current_alm_lo> ] [ <current_warn_hi> ] [ <current_warn_lo> ] [ <tx_pwr> ] [
<tx_pwr_flag> ] [ <tx_pwr_alm_hi> ] [ <tx_pwr_alm_lo> ] [ <tx_pwr_warn_hi> ] [ <tx_pwr_warn_lo> ]
] [ <rx_pwr> ] [ <rx_pwr_flag> ] [ <rx_pwr_alm_hi> ] [ <rx_pwr_alm_lo> ] [ <rx_pwr_warn_hi> ] [
<rx_pwr_warn_lo> ] [ <xmit_faults> ] [ <snr> ] [ <snr_flag> ] [ <snr_alm_hi> ] [ <snr_alm_lo> ] [
<snr_warn_hi> ] [ <snr_warn_lo> ] [ <isi> ] [ <isi_flag> ] [ <isi_alm_hi> ] [ <isi_alm_lo> ] [ <isi_warn_hi>
] [ <isi_warn_lo> ] [ <pam> ] [ <pam_flag> ] [ <pam_alm_hi> ] [ <pam_alm_lo> ] [ <pam_warn_hi> ] [
<pam_warn_lo> ] [ <pre_fec_ber> ] [ <pre_fec_ber_flag> ] [ <pre_fec_ber_alm_hi> ] [ <pre_fec_ber_alm_lo>
] [ <pre_fec_ber_warn_hi> ] [ <pre_fec_ber_warn_lo> ] [ <uncorrect_ber> ] [ <uncorrect_ber_flag> ] [
<uncorrect_ber_alm_hi> ] [ <uncorrect_ber_alm_lo> ] [ <uncorrect_ber_warn_hi> ] [
<uncorrect_ber_warn_lo> ] [ <tec_current> ] [ <tec_current_flag> ] [ <tec_current_alm_hi> ] [
<tec_current_alm_lo> ] [ <tec_current_warn_hi> ] [ <tec_current_warn_lo> ] [ <laser_freq> ] [
<laser_freq_flag> ] [ <laser_freq_alm_hi> ] [ <laser_freq_alm_lo> ] [ <laser_freq_warn_hi> ] [
<laser_freq_warn_lo> ] [ <laser_temp> ] [ <laser_temp_flag> ] [ <laser_temp_alm_hi> ] [
<laser_temp_alm_lo> ] [ <laser_temp_warn_hi> ] [ <laser_temp_warn_lo> ] [ <pre_fec_ber_acc> ] [
<pre_fec_ber_acc_flag> ] [ <pre_fec_ber_acc_alm_hi> ] [ <pre_fec_ber_acc_alm_lo> ] [
<pre_fec_ber_acc_warn_hi> ] [ <pre_fec_ber_acc_warn_lo> ] [ <pre_fec_ber_min> ] [ <pre_fec_ber_min_flag>
] [ <pre_fec_ber_min_alm_hi> ] [ <pre_fec_ber_min_alm_lo> ] [ <pre_fec_ber_min_warn_hi> ] [
<pre_fec_ber_min_warn_lo> ] [ <pre_fec_ber_max> ] [ <pre_fec_ber_max_flag> ] [
<pre_fec_ber_max_alm_hi> ] [ <pre_fec_ber_max_alm_lo> ] [ <pre_fec_ber_max_warn_hi> ] [
<pre_fec_ber_max_warn_lo> ] [ <pre_fec_ber_cur> ] [ <pre_fec_ber_cur_flag> ] [ <pre_fec_ber_cur_alm_hi>
] [ <pre_fec_ber_cur_alm_lo> ] [ <pre_fec_ber_cur_warn_hi> ] [ <pre_fec_ber_cur_warn_lo> ] [
<uncorrect_ber_acc> ] [ <uncorrect_ber_acc_flag> ] [ <uncorrect_ber_acc_alm_hi> ] [
<uncorrect_ber_acc_alm_lo> ] [ <uncorrect_ber_acc_warn_hi> ] [ <uncorrect_ber_acc_warn_lo> ] [
<uncorrect_ber_min> ] [ <uncorrect_ber_min_flag> ] [ <uncorrect_ber_min_alm_hi> ] [
<uncorrect_ber_min_alm_lo> ] [ <uncorrect_ber_min_warn_hi> ] [ <uncorrect_ber_min_warn_lo> ] [
<uncorrect_ber_max> ] [ <uncorrect_ber_max_flag> ] [ <uncorrect_ber_max_alm_hi> ] [
<uncorrect_ber_max_alm_lo> ] [ <uncorrect_ber_max_warn_hi> ] [ <uncorrect_ber_max_warn_lo> ] [
<uncorrect_ber_cur> ] [ <uncorrect_ber_cur_flag> ] [ <uncorrect_ber_cur_alm_hi> ] [
<uncorrect_ber_cur_alm_lo> ] [ <uncorrect_ber_cur_warn_hi> ] [ <uncorrect_ber_cur_warn_lo> ] ] ]

```

### Syntax Description

|             |  |
|-------------|--|
| show        | Show running system information        |
| interface   | Show interface status and information  |
| transceiver | Show interface transceiver information |

|                         |   |
|-------------------------|---|
| <i>calibrations</i>     | (Optional) Show interface transceiver calibration information |
| <i>details</i>          | (Optional) Show interface transceiver detail information      |
| <i>__readonly__</i>     | (Optional) Read Only  |
| <i>interface</i>        | (Optional) Interface index                                    |
| TABLE_ <i>interface</i> | (Optional) show interface                                     |
| <i>sfp</i>              | (Optional) sfp  |
| <i>qsfp_or_cfp</i>      | (Optional) qsfp_or_cfp  |
| <i>type</i>             | (Optional) type   |
| <i>name</i>             | (Optional) Name   |
| <i>partnum</i>          | (Optional) part number  |
| <i>rev</i>              | (Optional) revision   |
| <i>serialnum</i>        | (Optional) serial number                                      |
| <i>nom_bitrate</i>      | (Optional) Nominal bit rate in MBits/sec                      |
| <i>len_9</i>            | (Optional) Link length supported for 9/125um fiber            |
| <i>len_50</i>           | (Optional) Link length supported for 50/125um fiber           |
| <i>len_625</i>          | (Optional) Link length supported for 62.5/125um fiber         |
| <i>len_cu</i>           | (Optional) Link length supported for copper                   |
| <i>len_50_OM3</i>       | (Optional) Link length supported for 50/125um fiber in m      |
| <i>txcvr_type</i>       | (Optional)  |
| <i>connector_type</i>   | (Optional)  |
| <i>bit_encoding</i>     | (Optional)  |
| <i>protocol_type</i>    | (Optional)  |
| <i>10gbe_code</i>       | (Optional)  |
| <i>fiber_type_byte0</i> | (Optional)  |
| <i>fiber_type_byte1</i> | (Optional)  |
| <i>tx_type</i>          | (Optional) FC Transmitter type                                |
| <i>tx_len</i>           | (Optional) FC Transmitter length                              |
| <i>tx_medium</i>        | (Optional) FC Transmitter medium                              |
| <i>tx_speeds</i>        | (Optional) Transmission speeds                                |

|                           |   |
|---------------------------|---|
| <i>tx_range</i>           | (Optional) Transmission range                     |
| <i>cable_type</i>         | (Optional)  |
| <i>ciscoid</i>            | (Optional) Cisco extended id                      |
| <i>ciscoid_1</i>          | (Optional) Cisco extended id number               |
| <i>cisco_part_number</i>  | (Optional) Cisco part number                      |
| <i>cisco_product_id</i>   | (Optional) Cisco product identifier               |
| <i>cisco_vendor_id</i>    | (Optional) Cisco vendor identifier                |
| <i>cisco_ext_id</i>       | (Optional) Cisco extended ID                      |
| <i>info_not_available</i> | (Optional) No info available for this transceiver |
| <i>temp_slope</i>         | (Optional) Temperature slope                      |
| <i>temp_offset</i>        | (Optional) Temperature offset                     |
| <i>volt_slope</i>         | (Optional) Voltage slope                          |
| <i>volt_offset</i>        | (Optional) Voltage offset                         |
| <i>curr_slope</i>         | (Optional) Current slope                          |
| <i>curr_offset</i>        | (Optional) Current offset                         |
| <i>tx_pwr_slope</i>       | (Optional) Tx power slope                         |
| <i>tx_pwr_offset</i>      | (Optional) Tx power offset                        |
| <i>rx_pwr_4</i>           | (Optional) Rx power 4                             |
| <i>rx_pwr_3</i>           | (Optional) Rx power 3                             |
| <i>rx_pwr_2</i>           | (Optional) Rx power 2                             |
| <i>rx_pwr_1</i>           | (Optional) Rx power 1                             |
| <i>rx_pwr_0</i>           | (Optional) Rx power 0                             |
| TABLE_lane                | (Optional) show lane                              |
| <i>lane_number</i>        | (Optional) Lane number                            |
| <i>temperature</i>        | (Optional) Temperature                            |
| <i>temp_flag</i>          | (Optional) Temperature Flag                       |
| <i>temp_alarm_hi</i>      | (Optional) Temperature Alarm High                 |
| <i>temp_alarm_lo</i>      | (Optional) Temperature Alarm Low                  |
| <i>temp_warn_hi</i>       | (Optional) Temperature Warning High               |

|                        |   |
|------------------------|---|
| <i>temp_warn_lo</i>    | (Optional) Temperature Warning Low        |
| <i>voltage</i>         | (Optional) Voltage                        |
| <i>volt_flag</i>       | (Optional) Voltage Flag                   |
| <i>volt_alm_hi</i>     | (Optional) Voltage Alarm High             |
| <i>volt_alm_lo</i>     | (Optional) Voltage Alarm Low              |
| <i>volt_warn_hi</i>    | (Optional) Voltage Warning High           |
| <i>volt_warn_lo</i>    | (Optional) Voltage Warning Low            |
| <i>current</i>         | (Optional) Current                        |
| <i>current_flag</i>    | (Optional) Current Flag                   |
| <i>current_alm_hi</i>  | (Optional) Current Alarm High             |
| <i>current_alm_lo</i>  | (Optional) Current Alarm Low              |
| <i>current_warn_hi</i> | (Optional) Current Warning High           |
| <i>current_warn_lo</i> | (Optional) Current Warning Low            |
| <i>tx_pwr</i>          | (Optional) Tx Power                       |
| <i>tx_pwr_flag</i>     | (Optional) Tx Power Flag                  |
| <i>tx_pwr_alm_hi</i>   | (Optional) Tx Power Alarm High            |
| <i>tx_pwr_alm_lo</i>   | (Optional) Tx Power Alarm Low             |
| <i>tx_pwr_warn_hi</i>  | (Optional) Tx Power Warning High          |
| <i>tx_pwr_warn_lo</i>  | (Optional) Tx Power Warning Low           |
| <i>rx_pwr</i>          | (Optional) Rx Power                       |
| <i>rx_pwr_flag</i>     | (Optional) Rx Power Flag                  |
| <i>rx_pwr_alm_hi</i>   | (Optional) Rx Power Alarm High            |
| <i>rx_pwr_alm_lo</i>   | (Optional) Rx Power Alarm Low             |
| <i>rx_pwr_warn_hi</i>  | (Optional) Rx Power Warning High          |
| <i>rx_pwr_warn_lo</i>  | (Optional) Rx Power Warning Low           |
| <i>xmit_faults</i>     | (Optional) Transmit Fault Count           |
| <i>snr</i>             | (Optional) RX Signal-to-Noise Ratio (SNR) |
| <i>snr_flag</i>        | (Optional) SNR Flag                       |
| <i>snr_alm_hi</i>      | (Optional) SNR Alarm High                 |



|                              |   |
|------------------------------|---|
| <i>snr_alm_lo</i>            | (Optional) SNR Alarm Low                |
| <i>snr_warn_hi</i>           | (Optional) SNR Warning High             |
| <i>snr_warn_lo</i>           | (Optional) SNR Warning Low              |
| <i>isi</i>                   | (Optional) Residual-Dispersion(ISI)     |
| <i>isi_flag</i>              | (Optional) ISI Flag                     |
| <i>isi_alm_hi</i>            | (Optional) ISI alarm high               |
| <i>isi_alm_lo</i>            | (Optional) ISI alarm low                |
| <i>isi_warn_hi</i>           | (Optional) ISI warning high             |
| <i>isi_warn_lo</i>           | (Optional) ISI warning low              |
| <i>pam</i>                   | (Optional) PAM Transition               |
| <i>pam_flag</i>              | (Optional) PAM Flag                     |
| <i>pam_alm_hi</i>            | (Optional) PAM alarm high               |
| <i>pam_alm_lo</i>            | (Optional) PAM alarm low                |
| <i>pam_warn_hi</i>           | (Optional) PAM warning high             |
| <i>pam_warn_lo</i>           | (Optional) PAM warning low              |
| <i>pre_fec_ber</i>           | (Optional) Pre-FEC BER                  |
| <i>pre_fec_ber_flag</i>      | (Optional) Pre-FEC BER flag             |
| <i>pre_fec_ber_alm_hi</i>    | (Optional) Pre-FEC BER alarm high       |
| <i>pre_fec_ber_alm_lo</i>    | (Optional) Pre-FEC BER alarm low        |
| <i>pre_fec_ber_warn_hi</i>   | (Optional) Pre-FEC BER warning high     |
| <i>pre_fec_ber_warn_lo</i>   | (Optional) Pre-FEC BER warning low      |
| <i>uncorrect_ber</i>         | (Optional) Uncorrected BER              |
| <i>uncorrect_ber_flag</i>    | (Optional) Uncorrected BER flag         |
| <i>uncorrect_ber_alm_hi</i>  | (Optional) Uncorrected BER alarm high   |
| <i>uncorrect_ber_alm_lo</i>  | (Optional) Uncorrected BER alarm low    |
| <i>uncorrect_ber_warn_hi</i> | (Optional) Uncorrected BER warning high |
| <i>uncorrect_ber_warn_lo</i> | (Optional) Uncorrected BER warning low  |
| <i>tec_current</i>           | (Optional) TEC Current                  |
| <i>tec_current_flag</i>      | (Optional) TEC Current flag             |

|                                |   |
|--------------------------------|---|
| <i>tec_current_alm_hi</i>      | (Optional) TEC Current Alarm High         |
| <i>tec_current_alm_lo</i>      | (Optional) TEC Current Alarm Low          |
| <i>tec_current_warn_hi</i>     | (Optional) TEC Current Warning High       |
| <i>tec_current_warn_lo</i>     | (Optional) TEC Current Warning Low        |
| <i>laser_freq</i>              | (Optional) Laser Frequency                |
| <i>laser_freq_flag</i>         | (Optional) Laser Frequency flag           |
| <i>laser_freq_alm_hi</i>       | (Optional) Laser Frequency Alarm High     |
| <i>laser_freq_alm_lo</i>       | (Optional) Laser Frequency Alarm Low      |
| <i>laser_freq_warn_hi</i>      | (Optional) Laser Frequency Warning High   |
| <i>laser_freq_warn_lo</i>      | (Optional) Laser Frequency Warning Low    |
| <i>laser_temp</i>              | (Optional) Laser Temperature              |
| <i>laser_temp_flag</i>         | (Optional) Laser Temperature flag         |
| <i>laser_temp_alm_hi</i>       | (Optional) Laser Temperature Alarm High   |
| <i>laser_temp_alm_lo</i>       | (Optional) Laser Temperature Alarm Low    |
| <i>laser_temp_warn_hi</i>      | (Optional) Laser Temperature Warning High |
| <i>laser_temp_warn_lo</i>      | (Optional) Laser Temperature Warning Low  |
| <i>pre_fec_ber_acc</i>         | (Optional) Pre-FEC BER Acc                |
| <i>pre_fec_ber_acc_flag</i>    | (Optional) Pre-FEC BER Acc flag           |
| <i>pre_fec_ber_acc_alm_hi</i>  | (Optional) Pre-FEC BER Acc alarm high     |
| <i>pre_fec_ber_acc_alm_lo</i>  | (Optional) Pre-FEC BER Acc alarm low      |
| <i>pre_fec_ber_acc_warn_hi</i> | (Optional) Pre-FEC BER Acc warning high   |
| <i>pre_fec_ber_acc_warn_lo</i> | (Optional) Pre-FEC BER Acc warning low    |
| <i>pre_fec_ber_min</i>         | (Optional) Pre-FEC BER Min                |
| <i>pre_fec_ber_min_flag</i>    | (Optional) Pre-FEC BER Min flag           |
| <i>pre_fec_ber_min_alm_hi</i>  | (Optional) Pre-FEC BER Min alarm high     |
| <i>pre_fec_ber_min_alm_lo</i>  | (Optional) Pre-FEC BER Min alarm low      |
| <i>pre_fec_ber_min_warn_hi</i> | (Optional) Pre-FEC BER Min warning high   |
| <i>pre_fec_ber_min_warn_lo</i> | (Optional) Pre-FEC BER Min warning low    |
| <i>pre_fec_ber_max</i>         | (Optional) Pre-FEC BER Max                |

|                                  |   |
|----------------------------------|---|
| <i>pre_fec_ber_max_flag</i>      | (Optional) Pre-FEC BER Max flag             |
| <i>pre_fec_ber_max_alm_hi</i>    | (Optional) Pre-FEC BER Max alarm high       |
| <i>pre_fec_ber_max_alm_lo</i>    | (Optional) Pre-FEC BER Max alarm low        |
| <i>pre_fec_ber_max_warn_hi</i>   | (Optional) Pre-FEC BER Max warning high     |
| <i>pre_fec_ber_max_warn_lo</i>   | (Optional) Pre-FEC BER Max warning low      |
| <i>pre_fec_ber_cur</i>           | (Optional) Pre-FEC BER Cur                  |
| <i>pre_fec_ber_cur_flag</i>      | (Optional) Pre-FEC BER Cur flag             |
| <i>pre_fec_ber_cur_alm_hi</i>    | (Optional) Pre-FEC BER Cur alarm high       |
| <i>pre_fec_ber_cur_alm_lo</i>    | (Optional) Pre-FEC BER Cur alarm low        |
| <i>pre_fec_ber_cur_warn_hi</i>   | (Optional) Pre-FEC BER Cur warning high     |
| <i>pre_fec_ber_cur_warn_lo</i>   | (Optional) Pre-FEC BER Cur warning low      |
| <i>uncorrect_ber_acc</i>         | (Optional) Uncorrected BER Acc              |
| <i>uncorrect_ber_acc_flag</i>    | (Optional) Uncorrected BER Acc flag         |
| <i>uncorrect_ber_acc_alm_hi</i>  | (Optional) Uncorrected BER Acc alarm high   |
| <i>uncorrect_ber_acc_alm_lo</i>  | (Optional) Uncorrected BER Acc alarm low    |
| <i>uncorrect_ber_acc_warn_hi</i> | (Optional) Uncorrected BER Acc warning high |
| <i>uncorrect_ber_acc_warn_lo</i> | (Optional) Uncorrected BER Acc warning low  |
| <i>uncorrect_ber_min</i>         | (Optional) Uncorrected BER Min              |
| <i>uncorrect_ber_min_flag</i>    | (Optional) Uncorrected BER Min flag         |
| <i>uncorrect_ber_min_alm_hi</i>  | (Optional) Uncorrected BER Min alarm high   |
| <i>uncorrect_ber_min_alm_lo</i>  | (Optional) Uncorrected BER Min alarm low    |
| <i>uncorrect_ber_min_warn_hi</i> | (Optional) Uncorrected BER Min warning high |
| <i>uncorrect_ber_min_warn_lo</i> | (Optional) Uncorrected BER Min warning low  |
| <i>uncorrect_ber_max</i>         | (Optional) Uncorrected BER Max              |
| <i>uncorrect_ber_max_flag</i>    | (Optional) Uncorrected BER Max flag         |
| <i>uncorrect_ber_max_alm_hi</i>  | (Optional) Uncorrected BER Max alarm high   |
| <i>uncorrect_ber_max_alm_lo</i>  | (Optional) Uncorrected BER Max alarm low    |
| <i>uncorrect_ber_max_warn_hi</i> | (Optional) Uncorrected BER Max warning high |
| <i>uncorrect_ber_max_warn_lo</i> | (Optional) Uncorrected BER Max warning low  |

|                                  |   |
|----------------------------------|---|
| <i>uncorrect_ber_cur</i>         | (Optional) Uncorrected BER Cur              |
| <i>uncorrect_ber_cur_flag</i>    | (Optional) Uncorrected BER Cur flag         |
| <i>uncorrect_ber_cur_alm_hi</i>  | (Optional) Uncorrected BER Cur alarm high   |
| <i>uncorrect_ber_cur_alm_lo</i>  | (Optional) Uncorrected BER Cur alarm low    |
| <i>uncorrect_ber_cur_warn_hi</i> | (Optional) Uncorrected BER Cur warning high |
| <i>uncorrect_ber_cur_warn_lo</i> | (Optional) Uncorrected BER Cur warning low  |

**Command Mode**

- /exec

## show interface transceiver

```
show interface <ifid_trns_fc> transceiver [ calibrations | details ] [ __readonly__ TABLE_interface
<interface_fc> [ <sfp_fc> ] [ <type_fc> ] [ <name_fc> ] [ <partnum_fc> ] [ <rev_fc> ] [ <serialnum_fc> ] [
<cisco_partnum_fc> ] [ <cisco_pid_fc> ] [ <tx_type_fc> ] [ <tx_len_fc> ] [ <tx_medium_fc> ] [ <tx_speeds_fc> ] [
<nom_bitrate_fc> ] [ <len_9_fc> ] [ <len_50_fc> ] [ <len_625_fc> ] [ <len_50_OM3_fc> ] [
<cisco_ext_id_fc> ] [ <txcvr_type_fc> ] [ <connector_type_fc> ] [ <bit_encoding_fc> ] [ <protocol_type_fc> ] [
<10gbe_code_fc> ] [ <fiber_type_byte0_fc> ] [ <fiber_type_byte1_fc> ] [ <tx_range_fc> ] [
<temp_slope_fc> ] [ <temp_offset_fc> ] [ <volt_slope_fc> ] [ <volt_offset_fc> ] [ <curr_slope_fc> ] [
<curr_offset_fc> ] [ <tx_pwr_slope_fc> ] [ <tx_pwr_offset_fc> ] [ <rx_pwr_4_fc> ] [ <rx_pwr_3_fc> ] [
<rx_pwr_2_fc> ] [ <rx_pwr_1_fc> ] [ <rx_pwr_0_fc> ] [ <temperature_fc> ] [ <temp_flag_fc> ] [
<temp_alm_hi_fc> ] [ <temp_alm_lo_fc> ] [ <temp_warn_hi_fc> ] [ <temp_warn_lo_fc> ] [ <voltage_fc> ] [
<volt_flag_fc> ] [ <volt_alm_hi_fc> ] [ <volt_alm_lo_fc> ] [ <volt_warn_hi_fc> ] [ <volt_warn_lo_fc> ] [
<current_fc> ] [ <current_flag_fc> ] [ <current_alm_hi_fc> ] [ <current_alm_lo_fc> ] [
<current_warn_hi_fc> ] [ <current_warn_lo_fc> ] [ <tx_pwr_fc> ] [ <tx_pwr_flag_fc> ] [ <tx_pwr_alm_hi_fc> ] [
<tx_pwr_alm_lo_fc> ] [ <tx_pwr_warn_hi_fc> ] [ <tx_pwr_warn_lo_fc> ] [ <rx_pwr_fc> ] [
<rx_pwr_flag_fc> ] [ <rx_pwr_alm_hi_fc> ] [ <rx_pwr_alm_lo_fc> ] [ <rx_pwr_warn_hi_fc> ] [
<rx_pwr_warn_lo_fc> ] [ <xmit_faults_fc> ] [ <sfp_calibration> ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                               |
| interface               | Show interface status and information                         |
| <i>ifid_trns_fc</i>     | Enter interface type and number in module/slot format         |
| transceiver             | Show interface transceiver information                        |
| calibrations            | (Optional) Show interface transceiver calibration information |
| details                 | (Optional) Show interface transceiver detail information      |
| <u>__readonly__</u>     | (Optional) Read Only  |
| <i>interface_fc</i>     | (Optional) Interface index                                    |
| TABLE_interface         | (Optional) show interface                                     |
| <i>sfp_fc</i>           | (Optional) sfp  |
| <i>type_fc</i>          | (Optional) type   |
| <i>name_fc</i>          | (Optional) Name   |
| <i>partnum_fc</i>       | (Optional) part number  |
| <i>rev_fc</i>           | (Optional) revision   |
| <i>serialnum_fc</i>     | (Optional) serial number                                      |
| <i>cisco_partnum_fc</i> | (Optional) Cisco part number                                  |
| <i>cisco_pid_fc</i>     | (Optional) Cisco PID  |

|                            |  |
|----------------------------|--|
| <i>tx_type_fc</i>          | (Optional) FC Transmitter type                           |
| <i>tx_len_fc</i>           | (Optional) FC Transmitter length                         |
| <i>tx_medium_fc</i>        | (Optional) FC Transmitter medium                         |
| <i>tx_speeds_fc</i>        | (Optional) Transmission speeds                           |
| <i>nom_bitrate_fc</i>      | (Optional) Nominal bit rate in MBits/sec                 |
| <i>len_9_fc</i>            | (Optional) Link length supported for 9/125um fiber       |
| <i>len_50_fc</i>           | (Optional) Link length supported for 50/125um fiber      |
| <i>len_625_fc</i>          | (Optional) Link length supported for 62.5/125um fiber    |
| <i>len_50_OM3_fc</i>       | (Optional) Link length supported for 50/125um fiber in m |
| <i>cisco_ext_id_fc</i>     | (Optional) Cisco extended ID                             |
| <i>txcvr_type_fc</i>       | (Optional) Transceiver type                              |
| <i>connector_type_fc</i>   | (Optional) Connector type                                |
| <i>bit_encoding_fc</i>     | (Optional) Bit encoding                                  |
| <i>protocol_type_fc</i>    | (Optional) Protocol type                                 |
| <i>10gbe_code_fc</i>       | (Optional) 10GbE code byte                               |
| <i>fiber_type_byte0_fc</i> | (Optional) Fiber Type Byte 0                             |
| <i>fiber_type_byte1_fc</i> | (Optional) Fiber Type Byte 1                             |
| <i>tx_range_fc</i>         | (Optional) Transmission Range                            |
| <i>temp_slope_fc</i>       | (Optional) Temperature slope                             |
| <i>temp_offset_fc</i>      | (Optional) Temperature offset                            |
| <i>volt_slope_fc</i>       | (Optional) Voltage slope                                 |
| <i>volt_offset_fc</i>      | (Optional) Voltage offset                                |
| <i>curr_slope_fc</i>       | (Optional) Current slope                                 |
| <i>curr_offset_fc</i>      | (Optional) Current offset                                |
| <i>tx_pwr_slope_fc</i>     | (Optional) Tx power slope                                |
| <i>tx_pwr_offset_fc</i>    | (Optional) Tx power offset                               |
| <i>rx_pwr_4_fc</i>         | (Optional) Rx power 4                                    |
| <i>rx_pwr_3_fc</i>         | (Optional) Rx power 3                                    |
| <i>rx_pwr_2_fc</i>         | (Optional) Rx power 2                                    |

|                           |                                     |
|---------------------------|-------------------------------------|
| <i>rx_pwr_1_fc</i>        | (Optional) Rx power 1               |
| <i>rx_pwr_0_fc</i>        | (Optional) Rx power 0               |
| <i>temperature_fc</i>     | (Optional) Temperature              |
| <i>temp_flag_fc</i>       | (Optional) Temperature Flag         |
| <i>temp_alm_hi_fc</i>     | (Optional) Temperature Alarm High   |
| <i>temp_alm_lo_fc</i>     | (Optional) Temperature Alarm Low    |
| <i>temp_warn_hi_fc</i>    | (Optional) Temperature Warning High |
| <i>temp_warn_lo_fc</i>    | (Optional) Temperature Warning Low  |
| <i>voltage_fc</i>         | (Optional) Voltage                  |
| <i>volt_flag_fc</i>       | (Optional) Voltage Flag             |
| <i>volt_alm_hi_fc</i>     | (Optional) Voltage Alarm High       |
| <i>volt_alm_lo_fc</i>     | (Optional) Voltage Alarm Low        |
| <i>volt_warn_hi_fc</i>    | (Optional) Voltage Warning High     |
| <i>volt_warn_lo_fc</i>    | (Optional) Voltage Warning Low      |
| <i>current_fc</i>         | (Optional) Current                  |
| <i>current_flag_fc</i>    | (Optional) Current Flag             |
| <i>current_alm_hi_fc</i>  | (Optional) Current Alarm High       |
| <i>current_alm_lo_fc</i>  | (Optional) Current Alarm Low        |
| <i>current_warn_hi_fc</i> | (Optional) Current Warning High     |
| <i>current_warn_lo_fc</i> | (Optional) Current Warning Low      |
| <i>tx_pwr_fc</i>          | (Optional) Tx Power                 |
| <i>tx_pwr_flag_fc</i>     | (Optional) Tx Power Flag            |
| <i>tx_pwr_alm_hi_fc</i>   | (Optional) Tx Power Alarm High      |
| <i>tx_pwr_alm_lo_fc</i>   | (Optional) Tx Power Alarm Low       |
| <i>tx_pwr_warn_hi_fc</i>  | (Optional) Tx Power Warning High    |
| <i>tx_pwr_warn_lo_fc</i>  | (Optional) Tx Power Warning Low     |
| <i>rx_pwr_fc</i>          | (Optional) Rx Power                 |
| <i>rx_pwr_flag_fc</i>     | (Optional) Rx Power Flag            |
| <i>rx_pwr_alm_hi_fc</i>   | (Optional) Rx Power Alarm High      |

|                          |  |
|--------------------------|--|
| <i>rx_pwr_alm_lo_fc</i>  | (Optional) Rx Power Alarm Low                            |
| <i>rx_pwr_warn_hi_fc</i> | (Optional) Rx Power Warning High                         |
| <i>rx_pwr_warn_lo_fc</i> | (Optional) Rx Power Warning Low                          |
| <i>xmit_faults_fc</i>    | (Optional) Transmit Fault Count                          |
| <i>sfp_calibration</i>   | (Optional) Checking whether sfp is internally calibrated |

**Command Mode**

- /exec



## show interface transceiver

```

show interface <ifid_transceiver> transceiver [ calibrations | details | sprom ] [ __readonly__ TABLE interface
<interface> [ <sfp> ] [ <qsfp_or_cfp> ] [ <type> ] [ <name> ] [ <partnum> ] [ <rev> ] [ <serialnum> ] [
<nom_bitrate> ] [ <len_9> ] [ <len_9_2> ] [ <len_50> ] [ <len_625> ] [ <len_cu> ] [ <len_50_OM3> ] [
<txcvr_type> ] [ <connector_type> ] [ <bit_encoding> ] [ <protocol_type> ] [ <10gbe_code> ] [
<fiber_type_byte0> ] [ <fiber_type_byte1> ] [ <tx_range> ] [ <cable_type> ] [ <ciscoid> ] [ <ciscoid_1> ] [
<cisco_part_number> ] [ <cisco_product_id> ] [ <cisco_vendor_id> ] [ <firmware_version> ] [ <identifier>
] [ <ext_identifier> ] [ <connector> ] [ <infiniband_compliance_code> ] [ <sonet_compliance_code> ] [
<gigabit_ethernet_compliance_code> ] [ <fibre_chan_link_length> ] [ <fibre_chan_trans_technology> ] [
<fibre_chan_trans_tech_reserved> ] [ <fibre_chan_transmission_media> ] [ <fibre_chan_speed> ] [ <encoding>
] [ <br_nominal> ] [ <reserved1> ] [ <length_smf> ] [ <length_om5> ] [ <length_om4> ] [ <length_om3> ]
[ <length_om2> ] [ <length_om1> ] [ <length_9u_1> ] [ <length_9u_2> ] [ <length_50u> ] [ <length_60u>
] [ <length_copper> ] [ <reserved3> ] [ <wave_length> ] [ <wave_len_tolerance> ] [ <vendor_oui> ] [
<vendor_part_no> ] [ <vendor_revision> ] [ <reserved4> ] [ <check_code_id> ] [ <options> ] [ <br_max> ]
[ <br_min> ] [ <vendor_serial_no> ] [ <data_code> ] [ <diagnostic_monitoring_type> ] [ <enhanced_options>
] [ <sff8472compliance> ] [ <check_code_ext> ] [ <vendor_specific_data_id_data> ] [ <date_code> ] [
<clei_code> ] [ <power_class> ] [ <max_power> ] [ <cable_attenuation> ] [ <near_end_lanes> ] [
<far_end_lanes> ] [ <media_interface> ] [ <adv_code> ] [ <host_elt_intf_code> ] [ <med_intf_adv_code> ]
[ <host_lane_count> ] [ <med_lane_count> ] [ <max_mod_temp> ] [ <min_mod_temp> ] [ <min_op_volt>
] [ <info_not_available> ] [ <temp_slope> ] [ <temp_offset> ] [ <volt_slope> ] [ <volt_offset> ] [ <curr_slope>
] [ <curr_offset> ] [ <tx_pwr_slope> ] [ <tx_pwr_offset> ] [ <rx_pwr_4> ] [ <rx_pwr_3> ] [ <rx_pwr_2> ] [
<rx_pwr_1> ] [ <rx_pwr_0> ] [ TABLE lane [ <lane_number> ] [ <temperature> ] [ <temp_flag> ] [
<temp_alm_hi> ] [ <temp_alm_lo> ] [ <temp_warn_hi> ] [ <temp_warn_lo> ] [ <voltage> ] [ <volt_flag>
] [ <volt_alm_hi> ] [ <volt_alm_lo> ] [ <volt_warn_hi> ] [ <volt_warn_lo> ] [ <current> ] [ <current_flag>
] [ <current_alm_hi> ] [ <current_alm_lo> ] [ <current_warn_hi> ] [ <current_warn_lo> ] [ <tx_pwr> ] [
<tx_pwr_flag> ] [ <tx_pwr_alm_hi> ] [ <tx_pwr_alm_lo> ] [ <tx_pwr_warn_hi> ] [ <tx_pwr_warn_lo> ]
[ <rx_pwr> ] [ <rx_pwr_flag> ] [ <rx_pwr_alm_hi> ] [ <rx_pwr_alm_lo> ] [ <rx_pwr_warn_hi> ] [
<rx_pwr_warn_lo> ] [ <xmit_faults> ] [ <snr> ] [ <snr_flag> ] [ <snr_alm_hi> ] [ <snr_alm_lo> ] [
<snr_warn_hi> ] [ <snr_warn_lo> ] [ <isi> ] [ <isi_flag> ] [ <isi_alm_hi> ] [ <isi_alm_lo> ] [ <isi_warn_hi>
] [ <isi_warn_lo> ] [ <pam> ] [ <pam_flag> ] [ <pam_alm_hi> ] [ <pam_alm_lo> ] [ <pam_warn_hi> ] [
<pam_warn_lo> ] [ <pre_fec_ber> ] [ <pre_fec_ber_flag> ] [ <pre_fec_ber_alm_hi> ] [ <pre_fec_ber_alm_lo>
] [ <pre_fec_ber_warn_hi> ] [ <pre_fec_ber_warn_lo> ] [ <uncorrect_ber> ] [ <uncorrect_ber_flag> ] [
<uncorrect_ber_alm_hi> ] [ <uncorrect_ber_alm_lo> ] [ <uncorrect_ber_warn_hi> ] [
<uncorrect_ber_warn_lo> ] [ <tec_current> ] [ <tec_current_flag> ] [ <tec_current_alm_hi> ] [
<tec_current_alm_lo> ] [ <tec_current_warn_hi> ] [ <tec_current_warn_lo> ] [ <laser_freq> ] [
<laser_freq_flag> ] [ <laser_freq_alm_hi> ] [ <laser_freq_alm_lo> ] [ <laser_freq_warn_hi> ] [
<laser_freq_warn_lo> ] [ <laser_temp> ] [ <laser_temp_flag> ] [ <laser_temp_alm_hi> ] [
<laser_temp_alm_lo> ] [ <laser_temp_warn_hi> ] [ <laser_temp_warn_lo> ] [ <pre_fec_ber_acc> ] [
<pre_fec_ber_acc_flag> ] [ <pre_fec_ber_acc_alm_hi> ] [ <pre_fec_ber_acc_alm_lo> ] [
<pre_fec_ber_acc_warn_hi> ] [ <pre_fec_ber_acc_warn_lo> ] [ <pre_fec_ber_min> ] [ <pre_fec_ber_min_flag>
] [ <pre_fec_ber_min_alm_hi> ] [ <pre_fec_ber_min_alm_lo> ] [ <pre_fec_ber_min_warn_hi> ] [
<pre_fec_ber_min_warn_lo> ] [ <pre_fec_ber_max> ] [ <pre_fec_ber_max_flag> ] [
<pre_fec_ber_max_alm_hi> ] [ <pre_fec_ber_max_alm_lo> ] [ <pre_fec_ber_max_warn_hi> ] [
<pre_fec_ber_max_warn_lo> ] [ <pre_fec_ber_cur> ] [ <pre_fec_ber_cur_flag> ] [ <pre_fec_ber_cur_alm_hi>
] [ <pre_fec_ber_cur_alm_lo> ] [ <pre_fec_ber_cur_warn_hi> ] [ <pre_fec_ber_cur_warn_lo> ] [
<uncorrect_ber_acc> ] [ <uncorrect_ber_acc_flag> ] [ <uncorrect_ber_acc_alm_hi> ] [
<uncorrect_ber_acc_alm_lo> ] [ <uncorrect_ber_acc_warn_hi> ] [ <uncorrect_ber_acc_warn_lo> ] [
<uncorrect_ber_min> ] [ <uncorrect_ber_min_flag> ] [ <uncorrect_ber_min_alm_hi> ] [
<uncorrect_ber_min_alm_lo> ] [ <uncorrect_ber_min_warn_hi> ] [ <uncorrect_ber_min_warn_lo> ] [

```

```
<uncorrect_ber_max> ][ <uncorrect_ber_max_flag> ][ <uncorrect_ber_max_alm_hi> ][
<uncorrect_ber_max_alm_lo> ][ <uncorrect_ber_max_warn_hi> ][ <uncorrect_ber_max_warn_lo> ][
<uncorrect_ber_cur> ][ <uncorrect_ber_cur_flag> ][ <uncorrect_ber_cur_alm_hi> ][
<uncorrect_ber_cur_alm_lo> ][ <uncorrect_ber_cur_warn_hi> ][ <uncorrect_ber_cur_warn_lo> ] ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                               |
| interface               | Show interface status and information                         |
| <i>ifid_transceiver</i> | Enter interface type and number in module/slot format         |
| transceiver             | Show interface transceiver information                        |
| calibrations            | (Optional) Show interface transceiver calibration information |
| details                 | (Optional) Show interface transceiver detail information      |
| sprom                   | (Optional) Show interface transceiver sprom information       |
| __readonly__            | (Optional) Read Only  |
| <i>interface</i>        | (Optional) Interface index                                    |
| TABLE_interface         | (Optional) show interface                                     |
| <i>sfp</i>              | (Optional) sfp  |
| <i>qsfp_or_cfp</i>      | (Optional) qsfp_or_cfp  |
| <i>type</i>             | (Optional) type   |
| <i>name</i>             | (Optional) Name   |
| <i>partnum</i>          | (Optional) part number  |
| <i>rev</i>              | (Optional) revision   |
| <i>serialnum</i>        | (Optional) serial number                                      |
| <i>nom_bitrate</i>      | (Optional) Nominal bit rate in MBits/sec                      |
| <i>len_9</i>            | (Optional) Link length supported for 9/125um fiber in Km      |
| <i>len_9_2</i>          | (Optional) Link length supported for 9/125um fiber in m       |
| <i>len_50</i>           | (Optional) Link length supported for 50/125um fiber in m      |
| <i>len_625</i>          | (Optional) Link length supported for 62.5/125um fiber in m    |
| <i>len_cu</i>           | (Optional) Link length supported for copper sfp in m          |
| <i>len_50_OM3</i>       | (Optional) Link length supported for 50/125um fiber in m      |
| <i>txcvr_type</i>       | (Optional)  |

|   |   |
|---|---|
| <i>connector_type</i>                   | (Optional)                                  |
| <i>bit_encoding</i>                     | (Optional)                                  |
| <i>protocol_type</i>                    | (Optional)                                  |
| <i>10gbe_code</i>                       | (Optional)                                  |
| <i>fiber_type_byte0</i>                 | (Optional)                                  |
| <i>fiber_type_byte1</i>                 | (Optional)                                  |
| <i>tx_range</i>                         | (Optional)                                  |
| <i>cable_type</i>                       | (Optional)                                  |
| <i>ciscoid</i>                          | (Optional) Cisco extended id                |
| <i>ciscoid_1</i>                        | (Optional) Cisco extended id number         |
| <i>cisco_part_number</i>                | (Optional) Cisco part number                |
| <i>cisco_product_id</i>                 | (Optional) Cisco product identifier         |
| <i>cisco_vendor_id</i>                  | (Optional) Cisco vendor identifier          |
| <i>firmware_version</i>                 | (Optional) Firmware version                 |
| <i>identifier</i>                       | (Optional) SFP Identifier                   |
| <i>ext_identifier</i>                   | (Optional) SFP Ext Identifier               |
| <i>connector</i>                        | (Optional) SFP connector                    |
| <i>infiniband_compliance_code</i>       | (Optional) SFP Infiniband Compliance Code   |
| <i>sonet_compliance_code</i>            | (Optional) Sonet Compliance Code            |
| <i>gigabit_ethernet_compliance_code</i> | (Optional) Gigabit Ethernet Compliance Code |
| <i>fibre_chan_link_length</i>           | (Optional) Fibre Chan Link Length           |
| <i>fibre_chan_trans_technology</i>      | (Optional) Fibre Chan Trans Technology      |
| <i>fibre_chan_trans_tech_reserved</i>   | (Optional) Fibre Chan Trans Tech Reserved   |
| <i>fibre_chan_transmission_media</i>    | (Optional) Fibre Chan Transmission Media    |
| <i>fibre_chan_speed</i>                 | (Optional) Fibre Chan Speed                 |
| <i>encoding</i>                         | (Optional) Encoding                         |
| <i>br_nominal</i>                       | (Optional) BR Nominal                       |
| <i>reserved1</i>                        | (Optional) Reserved1                        |
| <i>length_smf</i>                       | (Optional) Length_SMF                       |

|                                     |  |
|-------------------------------------|--|
| <i>length_om5</i>                   | (Optional) Length_OM5                            |
| <i>length_om4</i>                   | (Optional) Length_OM4                            |
| <i>length_om3</i>                   | (Optional) Length_OM3                            |
| <i>length_om2</i>                   | (Optional) Length_OM2                            |
| <i>length_om1</i>                   | (Optional) Length_OM1                            |
| <i>length_9u_1</i>                  | (Optional) Length 9u 1                           |
| <i>length_9u_2</i>                  | (Optional) Length 9u 2                           |
| <i>length_50u</i>                   | (Optional) Length 50u                            |
| <i>length_60u</i>                   | (Optional) Length 60u                            |
| <i>length_copper</i>                | (Optional) Length Copper                         |
| <i>reserved3</i>                    | (Optional) Reserved3                             |
| <i>wave_length</i>                  | (Optional) Nominal transmitter output wavelength |
| <i>wave_len_tolerance</i>           | (Optional) Wavelength tolerance                  |
| <i>vendor_oui</i>                   | (Optional) Vendor OUI                            |
| <i>vendor_part_no</i>               | (Optional) Vendor Part No                        |
| <i>vendor_revision</i>              | (Optional) Vendor Revision                       |
| <i>reserved4</i>                    | (Optional) Reserved4                             |
| <i>check_code_id</i>                | (Optional) Check Code ID                         |
| <i>options</i>                      | (Optional) Options                               |
| <i>br_max</i>                       | (Optional) BR max                                |
| <i>br_min</i>                       | (Optional) BR min                                |
| <i>vendor_serial_no</i>             | (Optional) Vendor Serial No                      |
| <i>data_code</i>                    | (Optional) Data code                             |
| <i>diagnostic_monitoring_type</i>   | (Optional) Diagnostic Monitoring Type            |
| <i>enhanced_options</i>             | (Optional) Enhanced Options                      |
| <i>sff8472compliance</i>            | (Optional) SFF8472Compliance                     |
| <i>check_code_ext</i>               | (Optional) Check code ext                        |
| <i>vendor_specific_data_id_data</i> | (Optional) Vendor Specific Data Id Data          |
| <i>date_code</i>                    | (Optional) date code and lot code                |

|                           |   |
|---------------------------|---|
| <i>clei_code</i>          | (Optional) 10-character CLEI code                 |
| <i>power_class</i>        | (Optional) power class                            |
| <i>max_power</i>          | (Optional) maximum power consumption              |
| <i>cable_attenuation</i>  | (Optional) copper cable attenuation               |
| <i>near_end_lanes</i>     | (Optional) near end lane information              |
| <i>far_end_lanes</i>      | (Optional) far end lane information               |
| <i>media_interface</i>    | (Optional) media interface technology             |
| <i>adv_code</i>           | (Optional) Module Advertising Code                |
| <i>host_elt_intf_code</i> | (Optional) Module Host Electrical Interfaces Code |
| <i>med_intf_adv_code</i>  | (Optional) Media Interface Advertising Code       |
| <i>host_lane_count</i>    | (Optional) Host Lane Count                        |
| <i>med_lane_count</i>     | (Optional) Media Lane Count                       |
| <i>max_mod_temp</i>       | (Optional) Maximum Module Temperature             |
| <i>min_mod_temp</i>       | (Optional) Minimum Module Temperature             |
| <i>min_op_volt</i>        | (Optional) Minimum Operating Voltage              |
| <i>info_not_available</i> | (Optional) Info not available                     |
| <i>temp_slope</i>         | (Optional) Temperature slope                      |
| <i>temp_offset</i>        | (Optional) Temperature offset                     |
| <i>volt_slope</i>         | (Optional) Voltage slope                          |
| <i>volt_offset</i>        | (Optional) Voltage offset                         |
| <i>curr_slope</i>         | (Optional) Current slope                          |
| <i>curr_offset</i>        | (Optional) Current offset                         |
| <i>tx_pwr_slope</i>       | (Optional) Tx power slope                         |
| <i>tx_pwr_offset</i>      | (Optional) Tx power offset                        |
| <i>rx_pwr_4</i>           | (Optional) Rx power 4                             |
| <i>rx_pwr_3</i>           | (Optional) Rx power 3                             |
| <i>rx_pwr_2</i>           | (Optional) Rx power 2                             |
| <i>rx_pwr_1</i>           | (Optional) Rx power 1                             |
| <i>rx_pwr_0</i>           | (Optional) Rx power 0                             |

|                        |                                     |
|------------------------|-------------------------------------|
| <i>TABLE_lane</i>      | (Optional) show lane                |
| <i>lane_number</i>     | (Optional) Lane number              |
| <i>temperature</i>     | (Optional) Temperature              |
| <i>temp_flag</i>       | (Optional) Temperature Flag         |
| <i>temp_alm_hi</i>     | (Optional) Temperature Alarm High   |
| <i>temp_alm_lo</i>     | (Optional) Temperature Alarm Low    |
| <i>temp_warn_hi</i>    | (Optional) Temperature Warning High |
| <i>temp_warn_lo</i>    | (Optional) Temperature Warning Low  |
| <i>voltage</i>         | (Optional) Voltage                  |
| <i>volt_flag</i>       | (Optional) Voltage Flag             |
| <i>volt_alm_hi</i>     | (Optional) Voltage Alarm High       |
| <i>volt_alm_lo</i>     | (Optional) Voltage Alarm Low        |
| <i>volt_warn_hi</i>    | (Optional) Voltage Warning High     |
| <i>volt_warn_lo</i>    | (Optional) Voltage Warning Low      |
| <i>current</i>         | (Optional) Current                  |
| <i>current_flag</i>    | (Optional) Current Flag             |
| <i>current_alm_hi</i>  | (Optional) Current Alarm High       |
| <i>current_alm_lo</i>  | (Optional) Current Alarm Low        |
| <i>current_warn_hi</i> | (Optional) Current Warning High     |
| <i>current_warn_lo</i> | (Optional) Current Warning Low      |
| <i>tx_pwr</i>          | (Optional) Tx Power                 |
| <i>tx_pwr_flag</i>     | (Optional) Tx Power Flag            |
| <i>tx_pwr_alm_hi</i>   | (Optional) Tx Power Alarm High      |
| <i>tx_pwr_alm_lo</i>   | (Optional) Tx Power Alarm Low       |
| <i>tx_pwr_warn_hi</i>  | (Optional) Tx Power Warning High    |
| <i>tx_pwr_warn_lo</i>  | (Optional) Tx Power Warning Low     |
| <i>rx_pwr</i>          | (Optional) Rx Power                 |
| <i>rx_pwr_flag</i>     | (Optional) Rx Power Flag            |
| <i>rx_pwr_alm_hi</i>   | (Optional) Rx Power Alarm High      |

|                            |   |
|----------------------------|---|
| <i>rx_pwr_alm_lo</i>       | (Optional) Rx Power Alarm Low             |
| <i>rx_pwr_warn_hi</i>      | (Optional) Rx Power Warning High          |
| <i>rx_pwr_warn_lo</i>      | (Optional) Rx Power Warning Low           |
| <i>xmit_faults</i>         | (Optional) Transmit Fault Count           |
| <i>snr</i>                 | (Optional) RX Signal-to-Noise Ratio (SNR) |
| <i>snr_flag</i>            | (Optional) SNR Flag                       |
| <i>snr_alm_hi</i>          | (Optional) SNR Alarm High                 |
| <i>snr_alm_lo</i>          | (Optional) SNR Alarm Low                  |
| <i>snr_warn_hi</i>         | (Optional) SNR Warning High               |
| <i>snr_warn_lo</i>         | (Optional) SNR Warning Low                |
| <i>isi</i>                 | (Optional) Residual-Dispersion(ISI)       |
| <i>isi_flag</i>            | (Optional) ISI Flag                       |
| <i>isi_alm_hi</i>          | (Optional) ISI alarm high                 |
| <i>isi_alm_lo</i>          | (Optional) ISI alarm low                  |
| <i>isi_warn_hi</i>         | (Optional) ISI warning high               |
| <i>isi_warn_lo</i>         | (Optional) ISI warning low                |
| <i>pam</i>                 | (Optional) PAM Transition                 |
| <i>pam_flag</i>            | (Optional) PAM Flag                       |
| <i>pam_alm_hi</i>          | (Optional) PAM alarm high                 |
| <i>pam_alm_lo</i>          | (Optional) PAM alarm low                  |
| <i>pam_warn_hi</i>         | (Optional) PAM warning high               |
| <i>pam_warn_lo</i>         | (Optional) PAM warning low                |
| <i>pre_fec_ber</i>         | (Optional) Pre-FEC BER                    |
| <i>pre_fec_ber_flag</i>    | (Optional) Pre-FEC BER flag               |
| <i>pre_fec_ber_alm_hi</i>  | (Optional) Pre-FEC BER alarm high         |
| <i>pre_fec_ber_alm_lo</i>  | (Optional) Pre-FEC BER alarm low          |
| <i>pre_fec_ber_warn_hi</i> | (Optional) Pre-FEC BER warning high       |
| <i>pre_fec_ber_warn_lo</i> | (Optional) Pre-FEC BER warning low        |
| <i>uncorrect_ber</i>       | (Optional) Uncorrected BER                |

|                                |   |
|--------------------------------|---|
| <i>uncorrect_ber_flag</i>      | (Optional) Uncorrected BER flag           |
| <i>uncorrect_ber_alm_hi</i>    | (Optional) Uncorrected BER alarm high     |
| <i>uncorrect_ber_alm_lo</i>    | (Optional) Uncorrected BER alarm low      |
| <i>uncorrect_ber_warn_hi</i>   | (Optional) Uncorrected BER warning high   |
| <i>uncorrect_ber_warn_lo</i>   | (Optional) Uncorrected BER warning low    |
| <i>tec_current</i>             | (Optional) TEC Current                    |
| <i>tec_current_flag</i>        | (Optional) TEC Current flag               |
| <i>tec_current_alm_hi</i>      | (Optional) TEC Current Alarm High         |
| <i>tec_current_alm_lo</i>      | (Optional) TEC Current Alarm Low          |
| <i>tec_current_warn_hi</i>     | (Optional) TEC Current Warning High       |
| <i>tec_current_warn_lo</i>     | (Optional) TEC Current Warning Low        |
| <i>laser_freq</i>              | (Optional) Laser Frequency                |
| <i>laser_freq_flag</i>         | (Optional) Laser Frequency flag           |
| <i>laser_freq_alm_hi</i>       | (Optional) Laser Frequency Alarm High     |
| <i>laser_freq_alm_lo</i>       | (Optional) Laser Frequency Alarm Low      |
| <i>laser_freq_warn_hi</i>      | (Optional) Laser Frequency Warning High   |
| <i>laser_freq_warn_lo</i>      | (Optional) Laser Frequency Warning Low    |
| <i>laser_temp</i>              | (Optional) Laser Temperature              |
| <i>laser_temp_flag</i>         | (Optional) Laser Temperature flag         |
| <i>laser_temp_alm_hi</i>       | (Optional) Laser Temperature Alarm High   |
| <i>laser_temp_alm_lo</i>       | (Optional) Laser Temperature Alarm Low    |
| <i>laser_temp_warn_hi</i>      | (Optional) Laser Temperature Warning High |
| <i>laser_temp_warn_lo</i>      | (Optional) Laser Temperature Warning Low  |
| <i>pre_fec_ber_acc</i>         | (Optional) Pre-FEC BER Acc                |
| <i>pre_fec_ber_acc_flag</i>    | (Optional) Pre-FEC BER Acc flag           |
| <i>pre_fec_ber_acc_alm_hi</i>  | (Optional) Pre-FEC BER Acc alarm high     |
| <i>pre_fec_ber_acc_alm_lo</i>  | (Optional) Pre-FEC BER Acc alarm low      |
| <i>pre_fec_ber_acc_warn_hi</i> | (Optional) Pre-FEC BER Acc warning high   |
| <i>pre_fec_ber_acc_warn_lo</i> | (Optional) Pre-FEC BER Acc warning low    |



|                                  |   |
|----------------------------------|---|
| <i>pre_fec_ber_min</i>           | (Optional) Pre-FEC BER Min                  |
| <i>pre_fec_ber_min_flag</i>      | (Optional) Pre-FEC BER Min flag             |
| <i>pre_fec_ber_min_alm_hi</i>    | (Optional) Pre-FEC BER Min alarm high       |
| <i>pre_fec_ber_min_alm_lo</i>    | (Optional) Pre-FEC BER Min alarm low        |
| <i>pre_fec_ber_min_warn_hi</i>   | (Optional) Pre-FEC BER Min warning high     |
| <i>pre_fec_ber_min_warn_lo</i>   | (Optional) Pre-FEC BER Min warning low      |
| <i>pre_fec_ber_max</i>           | (Optional) Pre-FEC BER Max                  |
| <i>pre_fec_ber_max_flag</i>      | (Optional) Pre-FEC BER Max flag             |
| <i>pre_fec_ber_max_alm_hi</i>    | (Optional) Pre-FEC BER Max alarm high       |
| <i>pre_fec_ber_max_alm_lo</i>    | (Optional) Pre-FEC BER Max alarm low        |
| <i>pre_fec_ber_max_warn_hi</i>   | (Optional) Pre-FEC BER Max warning high     |
| <i>pre_fec_ber_max_warn_lo</i>   | (Optional) Pre-FEC BER Max warning low      |
| <i>pre_fec_ber_cur</i>           | (Optional) Pre-FEC BER Cur                  |
| <i>pre_fec_ber_cur_flag</i>      | (Optional) Pre-FEC BER Cur flag             |
| <i>pre_fec_ber_cur_alm_hi</i>    | (Optional) Pre-FEC BER Cur alarm high       |
| <i>pre_fec_ber_cur_alm_lo</i>    | (Optional) Pre-FEC BER Cur alarm low        |
| <i>pre_fec_ber_cur_warn_hi</i>   | (Optional) Pre-FEC BER Cur warning high     |
| <i>pre_fec_ber_cur_warn_lo</i>   | (Optional) Pre-FEC BER Cur warning low      |
| <i>uncorrect_ber_acc</i>         | (Optional) Uncorrected BER Acc              |
| <i>uncorrect_ber_acc_flag</i>    | (Optional) Uncorrected BER Acc flag         |
| <i>uncorrect_ber_acc_alm_hi</i>  | (Optional) Uncorrected BER Acc alarm high   |
| <i>uncorrect_ber_acc_alm_lo</i>  | (Optional) Uncorrected BER Acc alarm low    |
| <i>uncorrect_ber_acc_warn_hi</i> | (Optional) Uncorrected BER Acc warning high |
| <i>uncorrect_ber_acc_warn_lo</i> | (Optional) Uncorrected BER Acc warning low  |
| <i>uncorrect_ber_min</i>         | (Optional) Uncorrected BER Min              |
| <i>uncorrect_ber_min_flag</i>    | (Optional) Uncorrected BER Min flag         |
| <i>uncorrect_ber_min_alm_hi</i>  | (Optional) Uncorrected BER Min alarm high   |
| <i>uncorrect_ber_min_alm_lo</i>  | (Optional) Uncorrected BER Min alarm low    |
| <i>uncorrect_ber_min_warn_hi</i> | (Optional) Uncorrected BER Min warning high |

|                                  |   |
|----------------------------------|---|
| <i>uncorrect_ber_min_warn_lo</i> | (Optional) Uncorrected BER Min warning low  |
| <i>uncorrect_ber_max</i>         | (Optional) Uncorrected BER Max              |
| <i>uncorrect_ber_max_flag</i>    | (Optional) Uncorrected BER Max flag         |
| <i>uncorrect_ber_max_alm_hi</i>  | (Optional) Uncorrected BER Max alarm high   |
| <i>uncorrect_ber_max_alm_lo</i>  | (Optional) Uncorrected BER Max alarm low    |
| <i>uncorrect_ber_max_warn_hi</i> | (Optional) Uncorrected BER Max warning high |
| <i>uncorrect_ber_max_warn_lo</i> | (Optional) Uncorrected BER Max warning low  |
| <i>uncorrect_ber_cur</i>         | (Optional) Uncorrected BER Cur              |
| <i>uncorrect_ber_cur_flag</i>    | (Optional) Uncorrected BER Cur flag         |
| <i>uncorrect_ber_cur_alm_hi</i>  | (Optional) Uncorrected BER Cur alarm high   |
| <i>uncorrect_ber_cur_alm_lo</i>  | (Optional) Uncorrected BER Cur alarm low    |
| <i>uncorrect_ber_cur_warn_hi</i> | (Optional) Uncorrected BER Cur warning high |
| <i>uncorrect_ber_cur_warn_lo</i> | (Optional) Uncorrected BER Cur warning low  |

**Command Mode**

- /exec

# show interface trunk

```
show interface <ifeth_trnk> trunk [ __readonly__ { TABLE_interface <interface> <native> <status>
<portchannel> } { TABLE_allowed_vlans <interface> <allowedvlans> } { TABLE_errored_vlans <interface>
<erroredvlans> } { TABLE_stp_forward <interface> <stpfwd_vlans> } [ { TABLE_fabricpath_vlans
<interface> <fabricpath_vlans> } ] { TABLE_vtp_pruning <interface> <vtppruning_vlans> } ]
```

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information                          |
| interface               | Show interface status and information                    |
| <i>ifeth_trnk</i>       | Enter interface type and number in module/slot format    |
| trunk                   | Show interface trunk information                         |
| __readonly__            | (Optional) Read Only                                     |
| TABLE_interface         | (Optional) show interface                                |
| <i>interface</i>        | (Optional) Interface index                               |
| <i>native</i>           | (Optional) Native VLAN                                   |
| <i>status</i>           | (Optional) Status  |
| <i>portchannel</i>      | (Optional) Port Channel                                  |
| TABLE_allowed_vlans     | (Optional) show allowed vlans                            |
| <i>interface</i>        | (Optional) Interface index                               |
| <i>allowedvlans</i>     | (Optional) VLANs allowed and active in management domain |
| TABLE_errored_vlans     | (Optional) show errored vlans                            |
| <i>interface</i>        | (Optional) Interface index                               |
| <i>erroredvlans</i>     | (Optional) Errored VLANs                                 |
| TABLE_stp_forward       | (Optional) show STP forwarding VLANs                     |
| <i>interface</i>        | (Optional) Interface index                               |
| <i>stpfwd_vlans</i>     | (Optional) STP Forwarding VLANs                          |
| TABLE_fabricpath_vlans  | (Optional) show fabricpath VLANs                         |
| <i>interface</i>        | (Optional) Interface index                               |
| <i>fabricpath_vlans</i> | (Optional) FabricPath VLANs                              |
| TABLE_vtp_pruning       | (Optional) show VTP pruning VLANs                        |

|                         |                              |
|-------------------------|------------------------------|
| <i>interface</i>        | (Optional) Interface index   |
| <i>vtppruning_vlans</i> | (Optional) VTP Pruning VLANs |

**Command Mode**

- /exec

# show interface trunk

```
show interface trunk [ module <module> | vlan <vlan_id> | fex <fex_num> ] [ __readonly__ [ {
TABLE_interface <interface> <native> <status> <portchannel> } ] [ { TABLE_allowed_vlans <interface>
<allowedvlans> } ] [ { TABLE_errored_vlans <interface> <erroredvlans> } ] [ { TABLE_stp_forward
<interface> <stpfwd_vlans> } ] [ { TABLE_fabricpath_vlans <interface> <fabricpath_vlans> } ] [ {
TABLE_vtp_pruning <interface> <vtppruning_vlans> } ] ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                          |
| interface           | Show interface status and information                    |
| trunk               | Show interface trunk information                         |
| module              | (Optional) Limit display to interfaces on module         |
| <i>module</i>       | (Optional) Enter module number                           |
| fex                 | (Optional) Limit display to interfaces on a FEX          |
| <i>fex_num</i>      | (Optional) Enter FEX number                              |
| vlan                | (Optional) Show per vlan information for trunk           |
| <i>vlan_id</i>      | (Optional) Enter vlan range                              |
| <i>interface</i>    | (Optional) Interface index                               |
| <u>__readonly__</u> | (Optional) Read Only                                     |
| TABLE_interface     | (Optional) show interface                                |
| <i>interface</i>    | (Optional) Interface index                               |
| <i>native</i>       | (Optional) Native VLAN                                   |
| <i>status</i>       | (Optional) Status  |
| <i>portchannel</i>  | (Optional) Port Channel                                  |
| TABLE_allowed_vlans | (Optional) show allowed vlans                            |
| <i>interface</i>    | (Optional) Interface index                               |
| <i>allowedvlans</i> | (Optional) VLANs allowed and active in management domain |
| TABLE_errored_vlans | (Optional) show errored vlans                            |
| <i>interface</i>    | (Optional) Interface index                               |
| <i>erroredvlans</i> | (Optional) Errored VLANs                                 |
| TABLE_stp_forward   | (Optional) show STP forwarding VLANs                     |

|                          |                                   |
|--------------------------|-----------------------------------|
| <i>interface</i>         | (Optional) Interface index        |
| <i>stp fwd_vlans</i>     | (Optional) STP Forwarding VLANs   |
| TABLE_fabricpath_vlans   | (Optional) show fabricpath VLANs  |
| <i>interface</i>         | (Optional) Interface index        |
| <i>fabricpath_vlans</i>  | (Optional) FabricPath VLANs       |
| TABLE_vtp_pruning        | (Optional) show VTP pruning VLANs |
| <i>vtp pruning_vlans</i> | (Optional) VTP Pruning VLANs      |

**Command Mode**

- /exec

## show interface trunk vsan

```
show interface trunk vsan [ <vsan_id> ] [ __readonly__ { TABLE_interface_trunk [ <interface> ] [ <oper_state> ] [ <oper_state_reason> ] [ <bundle_str> ] [ TABLE_vsan_info { [ <vsan_num> ] [ <vsan_state> ] [ <vsan_state_reason> ] [ <fcid> ] } } ] }
```

### Syntax Description

|                          |                                       |
|--------------------------|---------------------------------------|
| show                     | Show running system information       |
| interface                | Show interface status and information |
| trunk                    | Show interface trunk information      |
| vsan                     | Show per vsan information for trunk   |
| <i>vsan_id</i>           | (Optional) Enter vsan range           |
| <i>__readonly__</i>      | (Optional)                            |
| TABLE_interface_trunk    | (Optional) interface trunk table      |
| <i>interface</i>         | (Optional) fc interface               |
| <i>oper_state</i>        | (Optional) the status of trunking     |
| <i>oper_state_reason</i> | (Optional) reason for operation state |
| <i>bundle_str</i>        | (Optional) bundle string              |
| TABLE_vsan_info          | (Optional) vsan information           |
| <i>vsan_num</i>          | (Optional) the vsan ID                |
| <i>vsan_state</i>        | (Optional) the status of vsan         |
| <i>vsan_state_reason</i> | (Optional) reason for vsan state      |
| <i>fcid</i>              | (Optional) FCID                       |

### Command Mode

- /exec

## show interface trunk vsan

```
show interface <ifid_trnk> trunk vsan [ <vsan_id> ] [ __readonly__ { TABLE_interface_trunk [ <interface>
] [ <oper_state> ] [ <oper_state_reason> ] [ <bundle_str> ] [ TABLE_vsan_info { [ <vsan_num> ] [
<vsan_state> ] [ <vsan_state_reason> ] [ <fcid> ] } } ] }
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information                       |
| interface                | Show interface status and information                 |
| <i>ifid_trnk</i>         | Enter interface type and number in module/slot format |
| trunk                    | Show interface trunk information                      |
| vsan                     | Show per vsan information for trunk                   |
| <i>vsan_id</i>           | (Optional) Enter vsan range                           |
| <i>__readonly__</i>      | (Optional) Read Only                                  |
| TABLE_interface_trunk    | (Optional) interface trunk table                      |
| <i>interface</i>         | (Optional) fc interface                               |
| <i>oper_state</i>        | (Optional) the status of trunking                     |
| <i>oper_state_reason</i> | (Optional) reason for operation state                 |
| <i>bundle_str</i>        | (Optional) bundle string                              |
| TABLE_vsan_info          | (Optional) vsan information                           |
| <i>vsan_num</i>          | (Optional) the vsan ID                                |
| <i>vsan_state</i>        | (Optional) the status of vsan                         |
| <i>vsan_state_reason</i> | (Optional) reason for vsan state                      |
| <i>fcid</i>              | (Optional) FCID                                       |

### Command Mode

- /exec



## show interface untagged-cos

```
show interface untagged-cos [ module <mod_num> ] [ __readonly__ TABLE_interface <interface>
<ucos-value> [ <portmode> ] ]
```

### Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                  |
| interface           | Show interface status and information            |
| untagged-cos        | Show interface untagged CoS information          |
| module              | (Optional) Limit display to interfaces on module |
| <i>mod_num</i>      | (Optional) Enter module number                   |
| <i>__readonly__</i> | (Optional)                                       |
| <i>interface</i>    | (Optional) Interface index                       |
| TABLE_interface     | (Optional) show interface                        |
| <i>ucos-value</i>   | (Optional) COS value                             |
| <i>portmode</i>     | (Optional) Port mode                             |

### Command Mode

- /exec

## show interface vlan mapping

```
show interface <ifindex> vlan mapping [ __readonly__ <if-index-id> { TABLE_vlan_xlt <orig-vlan-id> [
<inner-vlan-id> ] <xlt-vlan-id> } <show-end> [ <true-end> ] ]
```

### Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information                       |
| interface            | Show interface status and information                 |
| <i>ifindex</i>       | Enter interface type and number in module/slot format |
| vlan                 | Show VLAN information                                 |
| mapping              | VLAN translation mapping                              |
| <i>__readonly__</i>  | (Optional) Read Only                                  |
| TABLE_vlan_xlt       | (Optional) Vlan translation table                     |
| <i>if-index-id</i>   | (Optional) Interface index id                         |
| <i>orig-vlan-id</i>  | (Optional) Original Vlan Id                           |
| <i>inner-vlan-id</i> | (Optional) Inner Vlan Id                              |
| <i>xlt-vlan-id</i>   | (Optional) Translated Vlan Id                         |
| <i>show-end</i>      | (Optional) Show vlan end marker                       |
| <i>true-end</i>      | (Optional) Show vlan end marker                       |

### Command Mode

- /exec

# show inventory

```
show inventory [ chassis | fans | power_supply | module [ <module> ] | <s0> [ <santa-cruz-range> ] | all ] [
__readonly__ TABLE_inv <name> <desc> <productid> <vendorid> <serialnum> ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                         |
| inventory               | system inventory information                            |
| chassis                 | (Optional) system inventory chassis information         |
| fans                    | (Optional) system inventory fan information             |
| power_supply            | (Optional) system inventory power supply information    |
| module                  | (Optional) system inventory module information          |
| <i>module</i>           | (Optional) please enter the module number               |
| <i>s0</i>               | (Optional) please enter the module number               |
| <i>santa-cruz-range</i> | (Optional) please enter the xbar number                 |
| all                     | (Optional) system and transceiver inventory information |
| <u>__readonly__</u>     | (Optional)  |
| TABLE_inv               | (Optional) Inventory table                              |
| <i>name</i>             | (Optional) Name of inventory                            |
| <i>desc</i>             | (Optional) Description of inventory                     |
| <i>productid</i>        | (Optional) Product ID                                   |
| <i>vendorid</i>         | (Optional) Vendor ID                                    |
| <i>serialnum</i>        | (Optional) Serial Number                                |

## Command Mode

- /exec



|                              |                                      |
|------------------------------|--------------------------------------|
| <i>global_punt_pkt_cnt</i>   | (Optional) Global packet punt count  |
| <i>global_punt_byte_cnt</i>  | (Optional) Global byte punt count    |
| <i>global_glean_pkt_cnt</i>  | (Optional) Global glean packet count |
| <i>global_glean_byte_cnt</i> | (Optional) Global glean byte count   |
| <i>glean_pkt_cnt</i>         | (Optional) Glean packet count        |
| <i>glean_byte_cnt</i>        | (Optional) Glean byte count          |
| <i>normal_pkt_cnt</i>        | (Optional) Packet count              |
| <i>normal_byte_cnt</i>       | (Optional) Byte count                |
| <i>last_updated</i>          | (Optional) Last updated              |
| <i>count-static</i>          | (Optional) Count static              |
| <i>count-dynamic</i>         | (Optional) Count dynamic             |
| <i>count-others</i>          | (Optional) Count others              |
| <i>count-throttle</i>        | (Optional) Count throttle            |
| <i>count-total</i>           | (Optional) Count total               |
| TABLE_afi                    | (Optional) TABLR afi                 |
| <i>afi</i>                   | (Optional) afi                       |
| <i>count</i>                 | (Optional) count                     |
| TABLE_adj                    | (Optional) Adjacency table           |
| <i>intf-out</i>              | (Optional) Interface                 |
| <i>phy-intf</i>              | (Optional) Physical interface        |
| <i>ip-addr-out</i>           | (Optional) IP address                |
| <i>mac</i>                   | (Optional) MAC address               |
| <i>pref</i>                  | (Optional) Preference                |
| <i>owner</i>                 | (Optional) Owner                     |
| <i>pkt-count</i>             | (Optional) Packet count              |
| <i>byte-count</i>            | (Optional) Byte count                |
| <i>is-best</i>               | (Optional) Best                      |
| <i>is-thrtld</i>             | (Optional) Throttled                 |

**Command Mode**

- /exec

# show ip amt relay

```
show { ip | ipv6 } amt relay [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf <vrf>
<tut> <ra> <nds> <ldn> <nts> <lrn> <lra> <lq> <uc> <rc4> <rc6> ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                |
| ip                    | Display IP information                         |
| ipv6                  | Display IPv6 information                       |
| vrf                   | (Optional) Display information for VRF         |
| <i>vrf-name</i>       | (Optional) VRF name                            |
| <i>vrf-known-name</i> | (Optional) Known VRF name                      |
| amt                   | AMT show commands                              |
| relay                 | Display status information about the AMT Relay |
| __readonly__          | (Optional)                                     |
| TABLE_vrf             | (Optional)                                     |
| <i>tut</i>            | (Optional)                                     |
| <i>ra</i>             | (Optional)                                     |
| <i>vrf</i>            | (Optional)                                     |
| <i>nds</i>            | (Optional)                                     |
| <i>ldn</i>            | (Optional)                                     |
| <i>nts</i>            | (Optional)                                     |
| <i>lrn</i>            | (Optional)                                     |
| <i>lra</i>            | (Optional)                                     |
| <i>lq</i>             | (Optional)                                     |
| <i>uc</i>             | (Optional)                                     |
| <i>rc4</i>            | (Optional)                                     |
| <i>rc6</i>            | (Optional)                                     |

## Command Mode

- /exec

## show ip amt route

```
show { ip | ipv6 } amt route [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ TABLE_vrf <vrf>
<rc4> <rc6> { TABLE_route <addrs> <if> <nbr> <gwa> <gw_exp> } ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information          |
| ip                    | Display IP information                   |
| ipv6                  | Display IPv6 information                 |
| vrf                   | (Optional) Display information for VRF   |
| <i>vrf-name</i>       | (Optional) VRF name                      |
| <i>vrf-known-name</i> | (Optional) Known VRF name                |
| amt                   | AMT show commands                        |
| route                 | Display multicast routes learned via AMT |
| __readonly__          | (Optional)                               |
| TABLE_vrf             | (Optional)                               |
| <i>vrf</i>            | (Optional)                               |
| <i>rc4</i>            | (Optional)                               |
| <i>rc6</i>            | (Optional)                               |
| TABLE_route           | (Optional)                               |
| <i>addrs</i>          | (Optional)                               |
| <i>if</i>             | (Optional)                               |
| <i>nbr</i>            | (Optional)                               |
| <i>gwa</i>            | (Optional)                               |
| <i>gw_exp</i>         | (Optional)                               |

### Command Mode

- /exec



# show ip amt tunnel

```
show ip amt tunnel [ <address4> <port> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__
TABLE_vrf <vrf> <tc4> { TABLE_tunnel <gwa> <gwp> <ut> <ld> <lr> <rc> <exp> { TABLE_route
<source> <group> <rexp> } } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                     |
| amt                   | AMT show commands                                   |
| ip                    | Display IP information                              |
| tunnel                | Display tunnel information                          |
| vrf                   | (Optional) Display information for VRF              |
| <i>vrf-name</i>       | (Optional) VRF name                                 |
| <i>vrf-known-name</i> | (Optional) Known VRF name                           |
| <i>address4</i>       | (Optional) IP address of tunnel endpoint            |
| <i>port</i>           | (Optional) UDP port number of gateway               |
| detail                | (Optional) Display routes joined by tunnel endpoint |
| __readonly__          | (Optional)  |
| TABLE_vrf             | (Optional)  |
| <i>vrf</i>            | (Optional)  |
| <i>tc4</i>            | (Optional)  |
| TABLE_tunnel          | (Optional)  |
| <i>gwa</i>            | (Optional)  |
| <i>gwp</i>            | (Optional)  |
| <i>ut</i>             | (Optional)  |
| <i>ld</i>             | (Optional)  |
| <i>lr</i>             | (Optional)  |
| <i>rc</i>             | (Optional)  |
| <i>exp</i>            | (Optional)  |
| TABLE_route           | (Optional)  |
| <i>source</i>         | (Optional)  |

|              |            |
|--------------|------------|
| <i>group</i> | (Optional) |
| <i>rexp</i>  | (Optional) |

**Command Mode**

- /exec

# show ip arp

```
show ip arp [ [ [ <ip-address> | [ sync-entries | fhrp-non-active-learn ] [ detail ] | static | summary ] [ summary
] <interface> ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ] [ __readonly__ TABLE_vrf <vrf-name-out>
] [ <cnt-resolved> ] [ <cnt-incomplete> ] [ <cnt-thrtld-incomplete> ] [ <cnt-unknown> ] [ <cnt-total> ] [
TABLE_adj <intf-out> <ip-addr-out> [ <time-stamp> ] { <mac> | <unknown> | <incomplete> } [ <phy-intf>
] [ <flags> ] ] ] ]
```

## Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information   |
| ip                           | Display IP information  |
| arp                          | Display ARP table and statistics  |
| summary                      | (Optional) Display ARP adjacency summary  |
| detail                       | (Optional) Display detailed information   |
| sync-entries                 | (Optional) Display ARP table learnt only due to arp table sync                      |
| fhrp-non-active-learn        | (Optional) Display ARP table learnt only due to request for non-active FHRP address |
| <i>interface</i>             | (Optional) ARP interface  |
| <i>ip-address</i>            | (Optional) IP address   |
| vrf                          | (Optional) Display per-VRF information  |
| <i>vrf-name</i>              | (Optional) VRF name   |
| <i>vrf-known-name</i>        | (Optional) Known VRF name   |
| all                          | (Optional) Display ARP entries for all vrfs   |
| static                       | (Optional) Display Static ARP entries   |
| __readonly__                 | (Optional)  |
| TABLE_vrf                    | (Optional) Show VRF table   |
| <i>vrf-name-out</i>          | (Optional) Show VRF name  |
| <i>cnt-resolved</i>          | (Optional) Show total resolved ARP entries  |
| <i>cnt-incomplete</i>        | (Optional) Show total incomplete ARP entreis  |
| <i>cnt-thrtld-incomplete</i> | (Optional) Show total incomplete throttled entries                                  |
| <i>cnt-unknown</i>           | (Optional) Show total unknow entris   |
| <i>cnt-total</i>             | (Optional) Show total   |

|                    |                                    |
|--------------------|------------------------------------|
| <i>TABLE_adj</i>   | (Optional) Show IP ARP             |
| <i>intf-out</i>    | (Optional) Show interface          |
| <i>ip-addr-out</i> | (Optional) Show ip address         |
| <i>time-stamp</i>  | (Optional) Show age of adjacency   |
| <i>mac</i>         | (Optional) Show mac                |
| <i>unknown</i>     | (Optional) Show unknown entry      |
| <i>incomplete</i>  | (Optional) Show incomplete entry   |
| <i>phy-intf</i>    | (Optional) Show physical interface |
| <i>flags</i>       | (Optional) Show flags              |

**Command Mode**

- /exec

## show ip arp anycast topo-info

```
show ip arp anycast topo-info [ <topo-id> ] [ __readonly__ { TABLE_ip_arp_anycast_topo_info [
<ip_arp_anycat_topo_id> ] [ <ip_arp_anycast_feature> ] [ <ip_arp_anycast_mode> ] } ]
```

### Syntax Description

|                                |   |
|--------------------------------|---|
| show                           | Show running system information           |
| ip                             | Configure IP features                     |
| arp                            | Configure ARP parameters                  |
| anycast                        | anycast feature info                      |
| topo-info                      | Per topology specific information         |
| <i>topo-id</i>                 | (Optional) Topology ID (VLAN-ID or BD-ID) |
| <i>__readonly__</i>            | (Optional)                                |
| TABLE_ip_arp_anycast_topo_info | (Optional) Show ip arp anycast topo-info  |
| <i>ip_arp_anycat_topo_id</i>   | (Optional) Show ARP anycast topo-id       |
| <i>ip_arp_anycast_feature</i>  | (Optional) Show ARP anycast feature       |
| <i>ip_arp_anycast_mode</i>     | (Optional) Show ARP anycast mode          |

### Command Mode

- /exec

## show ip arp client

```
show ip arp client [ __readonly__ { <arp-clients> } [ TABLE_arp_client_list { <arp-cli-uuid> <l2-client-type>
<client-flg> <mts-addr-sap> <cli-msg-cnt> [ <l2-cli-func-name> ] [ <l2-cli-dbg-func> ] [
<l2-cli-dbg-un-init-func> ] } ] ]
```

### Syntax Description

|                                |                                   |
|--------------------------------|-----------------------------------|
| show                           | Show running system information   |
| ip                             | Display IP information            |
| arp                            | Display ARP table and statistics  |
| client                         | Display ARP Client table          |
| <i>__readonly__</i>            | (Optional)                        |
| <i>arp-clients</i>             | (Optional) Number of ARP Clients  |
| <i>TABLE_arp_client_list</i>   | (Optional) Show ip arp client     |
| <i>arp-cli-uuid</i>            | (Optional) Protocol uuid          |
| <i>l2-client-type</i>          | (Optional) Client type            |
| <i>client-flg</i>              | (Optional) Flags                  |
| <i>mts-addr-sap</i>            | (Optional) SAP                    |
| <i>cli-msg-cnt</i>             | (Optional) Client message count   |
| <i>l2-cli-func-name</i>        | (Optional) Received function      |
| <i>l2-cli-dbg-func</i>         | (Optional) Debug init function    |
| <i>l2-cli-dbg-un-init-func</i> | (Optional) Debug Un-init function |

### Command Mode

- /exec

## show ip arp controller-statistics

```
show ip arp controller-statistics [ __readonly__ { TABLE_ip_arp_controller_statistics [
<arp_adj_controller_add_count> ] [ <arp_adj_controller_del_count> ] [ <arp_adj_controller_add_err_count>
] [ <arp_adj_controller_del_err> ] } ]
```

### Syntax Description

|   |                                       |
|---|---------------------------------------|
| show                                    | Show running system information       |
| ip                                      | Display IP information                |
| arp                                     | Display ARP table and statistics      |
| controller-statistics                   | Controller statistics                 |
| __readonly__                            | (Optional)                            |
| TABLE_ip_arp_controller_statistics      | (Optional) Show controller-statistics |
| <i>arp_adj_controller_add_count</i>     | (Optional)                            |
| <i>arp_adj_controller_del_count</i>     | (Optional)                            |
| <i>arp_adj_controller_add_err_count</i> | (Optional)                            |
| <i>arp_adj_controller_del_err</i>       | (Optional)                            |

### Command Mode

- /exec

# show ip arp esi

```
show ip arp esi [ __readonly__ { TABLE_ip_arp_esi [ <ip_arp_esi_interface> ] [ <ip_arp_esi_value> ] } ]
```

## Syntax Description

|                             |                                 |
|-----------------------------|---------------------------------|
| show                        | Show running system information |
| ip                          | Configure IP features           |
| arp                         | Configure ARP parameters        |
| esi                         | ESI information                 |
| __readonly__                | (Optional)                      |
| TABLE_ip_arp_esi            | (Optional) Show ip arp esi      |
| <i>ip_arp_esi_interface</i> | (Optional) Interface            |
| <i>ip_arp_esi_value</i>     | (Optional) Values               |

## Command Mode

- /exec



## show ip arp l2 statistics interface

```
show ip arp l2 statistics interface { <interface> | all } [ __readonly__ { TABLE_ip_arp_l2_statistics
<arp-l2-port-iframe> <arp-l2-port-stats-rx-total> } ]
```

### Syntax Description

|                                   |  |
|-----------------------------------|--|
| show                              | Show running system information          |
| ip                                | Display IP information                   |
| arp                               | Display ARP table and statistics         |
| l2                                | Display ARP L2 port level info           |
| statistics                        | Display ARP statistics                   |
| interface                         | ARP interface                            |
| <i>interface</i>                  | ARP interface                            |
| all                               | Display ARP statistics for all interface |
| __readonly__                      | (Optional)                               |
| TABLE_ip_arp_l2_statistics        | (Optional) Show ip arp l2 stats          |
| <i>arp-l2-port-iframe</i>         | (Optional) Interface name                |
| <i>arp-l2-port-stats-rx-total</i> | (Optional) L2 port stats rx toal         |

### Command Mode

- /exec

## show ip arp multihoming-statistics

```
show ip arp multihoming-statistics [ <interface> ] [ interface-all ] [ vrf { <vrf-name> | <vrf-known-name> |
all } ] [ __readonly__ TABLE_vrf <vrf-name-out2> TABLE_stat <ps-recv-add-l2rib> <ps-proc-add-l2rib>
<ps-recv-del-l2rib> <ps-proc-del-l2rib> <ps-recv-pc-shut-l2rib> <ps-proc-pc-shut-l2rib>
<ps-recv-remote-upd-l2rib> <ps-proc-remote-upd-l2rib> <ps-add-err-invalid-flags> <ps-del-err-invalid-flags>
<ps-add-err-invalid-curr-state> <ps-del-err-invalid-curr-state> <ps-del-err-mac-mismatch> <ps-del-err-sec-del>
<ps-del-err-tl-route> <tl-del-err-psro-route> ]
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information                                 |
| ip                              | Display IP information  |
| arp                             | Display ARP table and statistics                                |
| multihoming-statistics          | Display ARP Multihoming stats                                   |
| vrf                             | (Optional) Display per-VRF information                          |
| <i>vrf-name</i>                 | (Optional) VRF name   |
| <i>vrf-known-name</i>           | (Optional) Known VRF name                                       |
| all                             | (Optional) Display ARP Multihoming statistics for all vrfs      |
| interface-all                   | (Optional) Display ARP Multihoming statistics for all interface |
| <i>interface</i>                | (Optional) ARP interface  |
| <i>__readonly__</i>             | (Optional)  |
| TABLE_vrf                       | (Optional) VRF table  |
| <i>vrf-name-out2</i>            | (Optional) VRF name   |
| TABLE_stat                      | (Optional) Show ip arp multihoming statistics                   |
| <i>ps-recv-add-l2rib</i>        | (Optional) Received ADD from L2RIB                              |
| <i>ps-recv-del-l2rib</i>        | (Optional) Received DEL from L2RIB                              |
| <i>ps-recv-remote-upd-l2rib</i> | (Optional) Received remote UPD from L2RIB                       |
| <i>ps-recv-pc-shut-l2rib</i>    | (Optional) Received PC shut from L2RIB                          |
| <i>ps-proc-add-l2rib</i>        | (Optional) Processed ADD from L2RIB                             |
| <i>ps-proc-del-l2rib</i>        | (Optional) Processed DEL from L2RIB                             |
| <i>ps-proc-remote-upd-l2rib</i> | (Optional) Processed remote UPD from L2RIB                      |
| <i>ps-proc-pc-shut-l2rib</i>    | (Optional) Processed PC shut from L2RIB                         |

|                                      |  |
|--------------------------------------|--|
| <i>ps-add-err-invalid-flags</i>      | (Optional) Multihoming ADD error invalid flag          |
| <i>ps-del-err-invalid-flags</i>      | (Optional) Multihoming DEL error invalid flag          |
| <i>ps-add-err-invalid-curr-state</i> | (Optional) Multihoming ADD error invalid current state |
| <i>ps-del-err-invalid-curr-state</i> | (Optional) Multihoming DEL error invalid current state |
| <i>ps-del-err-mac-mismatch</i>       | (Optional) Peer sync DEL error MAC mismatch            |
| <i>ps-del-err-tl-route</i>           | (Optional) Peer sync DEL error second delete           |
| <i>tl-del-err-psro-route</i>         | (Optional) True local DEL error deleteing PS RO route  |
| <i>ps-del-err-sec-del</i>            | (Optional) Peer sync DEL error second delete           |

**Command Mode**

- /exec

## show ip arp off-list

```
show ip arp off-list [ { vlan | bdi } <vlan-id> ] [ __readonly__ [ <offlist-vlan-id> <vlan-adj-cnt> ] [
<arp-sync-adj-cnt> ] { TABLE_arp_vlan_list <adj-vlan-id> <off-adj-ip-addr> <time-stamp> <arp-mac-addr>
<off-adj-flags> } ]
```

### Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information                  |
| ip                      | Display IP information                           |
| arp                     | Display ARP table and statistics                 |
| off-list                | Show adjacencies in off-list arp database        |
| vlan                    | (Optional) Vlan id                               |
| bdi                     | (Optional) Bridge Domain Name/Id                 |
| <i>vlan-id</i>          | (Optional) Show information for specified vlan   |
| <i>__readonly__</i>     | (Optional)                                       |
| <i>offlist-vlan-id</i>  | (Optional) Show ip arp offlist vlan-id           |
| <i>vlan-adj-cnt</i>     | (Optional) Show ip arp vlan adjacency count      |
| <i>arp-sync-adj-cnt</i> | (Optional) Show arp sync adjacency count         |
| TABLE_arp_vlan_list     | (Optional) Show ip arp vlan list                 |
| <i>adj-vlan-id</i>      | (Optional) Show ip arp adjacency vlan id         |
| <i>off-adj-ip-addr</i>  | (Optional) Show arp offlist adjacency ip address |
| <i>time-stamp</i>       | (Optional) Show duration                         |
| <i>arp-mac-addr</i>     | (Optional) Show mac address                      |
| <i>off-adj-flags</i>    | (Optional) show offlist adjacencyy flgs          |

### Command Mode

- /exec

## show ip arp open-flow error-statistics

```
show ip arp open-flow error-statistics [ __readonly__ <arp_ofa_total_err_cnt> <arp_ofa_dp_adj_err_on_del>
<arp_ofa_cp_mac_mismatch_err_on_del> <arp_ofa_cp_null_mac_err_on_del>
<arp_ofa_cp_no_adj_err_on_del_flag> <arp_ofa_cp_cp_nh_mismatch_err_on_del>
<arp_ofa_cp_adj_del_failure_err> <arp_ofa_cp_null_mac_err_on_add>
<arp_ofa_cp_dp_mac_mismatch_err_on_add> <arp_ofa_cp_cp_mac_mismatch_err_on_add>
<arp_ofa_cp_added_first_err> <arp_ofa_dp_overwrite_cp_err> <arp_ofa_dp_cp_nh_mismatch_err_on_add>
<arp_ofa_cp_cp_nh_mismatch_err_on_add> <arp_ofa_cp_dp_nh_mismatch_err_on_add>
<arp_ofa_cp_adj_add_failure_err> <arp_ofa_peer_ip_lookup_rec_phy_iod_err>
<arp_ofa_peer_ip_ipv6_rec_phy_iod_err> <arp_ofa_peer_ip_lookup_adj_phy_iod_err>
<arp_ofa_peer_ip_ipv6_adj_phy_iod_err> <arp_ofa_barrier_response_err> ]
```

### Syntax Description

|  |   |
|--|---|
| show   | Show running system information                           |
| ip   | Configure IP features                                     |
| arp  | Configure ARP parameters                                  |
| open-flow                                    | open flow   |
| error-statistics                             | IR mode specific adjacency statistics                     |
| <i>__readonly__</i>                          | (Optional)  |
| <i>arp_ofa_total_err_cnt</i>                 | (Optional) OFA total error count                          |
| <i>arp_ofa_dp_adj_err_on_del</i>             | (Optional) Controller Deleting DP adjacency error         |
| <i>arp_ofa_cp_mac_mismatch_err_on_del</i>    | (Optional) CP adjacency MAC mismatch error while delete   |
| <i>arp_ofa_cp_null_mac_err_on_del</i>        | (Optional) CP adjacency NULL mac error while delete       |
| <i>arp_ofa_cp_no_adj_err_on_del_flag</i>     | (Optional) No adjacency found while delete                |
| <i>arp_ofa_cp_cp_nh_mismatch_err_on_del</i>  | (Optional) CP adjacency NH mismatch error while delete    |
| <i>arp_ofa_cp_adj_del_failure_err</i>        | (Optional) Other errors while deleting                    |
| <i>arp_ofa_cp_null_mac_err_on_add</i>        | (Optional) CP adjacency NULL mac error while Adding       |
| <i>arp_ofa_cp_dp_mac_mismatch_err_on_add</i> | (Optional) DP adjacency present with different mac        |
| <i>arp_ofa_cp_cp_mac_mismatch_err_on_add</i> | (Optional) CP adjacency present with different mac        |
| <i>arp_ofa_cp_added_first_err</i>            | (Optional) CP adjacency added first                       |
| <i>arp_ofa_dp_overwrite_cp_err</i>           | (Optional) Overwriting CP adjacency with DP               |
| <i>arp_ofa_dp_cp_nh_mismatch_err_on_add</i>  | (Optional) DP adjacency already present with different NH |
| <i>arp_ofa_cp_cp_nh_mismatch_err_on_add</i>  | (Optional) CP adjacency already present with different NH |

|   |   |
|---|---|
| <i>arp_ofa_cp_dp_nh_mismatch_err_on_add</i>   | (Optional) Overwriting CP adj with DP with different NH |
| <i>arp_ofa_cp_adj_add_failure_err</i>         | (Optional) Other errors while adding                    |
| <i>arp_ofa_peer_ip_lookup_rec_phy_iod_err</i> | (Optional) Peer IP lookup for received physical iod     |
| <i>arp_ofa_peer_ip_ipv6_rec_phy_iod_err</i>   | (Optional) Peer is IPv6 for received physical iod       |
| <i>arp_ofa_peer_ip_lookup_adj_phy_iod_err</i> | (Optional) Peer IP lookup for adjacency physical iod    |
| <i>arp_ofa_peer_ip_ipv6_adj_phy_iod_err</i>   | (Optional) Peer is IPv6 for adjacecny physical iod      |
| <i>arp_ofa_barrier_response_err</i>           | (Optional) Barrier responses                            |

**Command Mode**

- /exec

## show ip arp statistics

```
show ip arp statistics [ <interface> ] [ interface-all ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_vrf <vrf-name-out1> [ TABLE_stat <tx-total> <tx-req> <tx-reply> <tx-req-l2>
<tx-reply-l2> <tx-grat> <tx-tunnel> <tx-drop> [ <tx-srvrport> ] [ <tx-fbrcport> ] [ <tx-fixup-core> ] [
<tx-fixup-server> ] [ <tx-fixup-rarp> ] [ <tx-anycast-glean> ] <tx-mbuf-fail> <tx-ctxt-not-crted> <tx-bad-ctxt-id>
<tx-invalid-ifindex> <tx-invalid-sip> <tx-invalid-dip> <tx-own-ip> <tx-unattached-ip> <tx-adj-create-fail>
<tx-null-sip> <tx-null-smac> <tx-client-enq-fail> <tx-dest-unreachable-proxy-arp>
<tx-dest-unreachable-enhanced-proxy> <tx-dest-l2port-track> <tx-invalid-local-proxy> <tx-invalid-proxy>
<tx-vip-not-active> <tx-skip-refresh-over-core-and-flood-to-server> <rx-total> <rx-req> <rx-reply> <rx-req-l2>
<rx-reply-l2> <rx-proxy> <rx-local-proxy> <rx-enhanced-proxy> <rx-enhanced-proxy-anycast>
<rx-enhanced-proxy-l2port-track> <rx-tunnel> <rx-fastpath> <rx-snoop> <rx-drop> <rx-srvrport> <bad-if>
<bad-len> <invalid-prot> <invalid-hrd-type> <invalid-ctxt> <ctxt-not-crted> <invalid-l2> <invalid-l3>
<invalid-sip> <our-sip> <arp-if-no-mem> <subnet-mismatch> <dir-bcast> <invalid-dip> <non-local-dst>
<non-active-fhrp> <invalid-smac> <our-smac> <not-init> <l2-prxy-en> <l2-port-untrusted> <stdby-fhrp-vip>
<grat-prxy-en> <arp-req-ignore> <l2-intf> <l2fm-query-fail> <tunnel_fail> [ <hsrp-active-vmac> ] [
<rx-intf-down> ] <recv-glean-count> <refresh-req-from-clients> <l2rib-signals> <adds> <dels> <timeouts>
]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                     |
| ip                    | Display IP information                              |
| arp                   | Display ARP table and statistics                    |
| statistics            | Display ARP statistics                              |
| vrf                   | (Optional) Display per-VRF information              |
| <i>vrf-name</i>       | (Optional) VRF name                                 |
| <i>vrf-known-name</i> | (Optional) Known VRF name                           |
| all                   | (Optional) Display ARP statistics for all vrfs      |
| interface-all         | (Optional) Display ARP statistics for all interface |
| <i>interface</i>      | (Optional) ARP interface                            |
| <u>__readonly__</u>   | (Optional)  |
| TABLE_vrf             | (Optional) Table Vrf                                |
| <i>vrf-name-out1</i>  | (Optional) Show VRF name                            |
| TABLE_stat            | (Optional) Show IP ARP statistics                   |
| <i>tx-total</i>       | (Optional) Sent: total                              |
| <i>tx-req</i>         | (Optional) Sent: request                            |
| <i>tx-reply</i>       | (Optional) Sent: reply                              |

|   |  |
|---|--|
| <i>tx-req-l2</i>                          | (Optional) Sent: request on L2                       |
| <i>tx-reply-l2</i>                        | (Optional) Sent: replay on L2                        |
| <i>tx-grat</i>                            | (Optional) Sent: gratuitous                          |
| <i>tx-tunnel</i>                          | (Optional) Sent: tunnel packet                       |
| <i>tx-drop</i>                            | (Optional) Sent:Dropped packet                       |
| <i>tx-srvrport</i>                        | (Optional) Sent from Server Port                     |
| <i>tx-fbrport</i>                         | (Optional) Sent from Fabric Port                     |
| <i>tx-fixup-core</i>                      | (Optional) Sent: fixup core                          |
| <i>tx-fixup-server</i>                    | (Optional) Sent: fixup server                        |
| <i>tx-fixup-rarp</i>                      | (Optional) Sent: fixup rarp                          |
| <i>tx-anycast-glean</i>                   | (Optional) Sent: modified anycast glean              |
| <i>tx-mbuf-fail</i>                       | (Optional) Sent:MBUF operation failed                |
| <i>tx-ctxt-not-crtd</i>                   | (Optional) Sent:Context not yet created              |
| <i>tx-bad-ctxt-id</i>                     | (Optional) Sent:Invalid context                      |
| <i>tx-invalid-ifindex</i>                 | (Optional) Sent:Invalid ifindex                      |
| <i>tx-invalid-sip</i>                     | (Optional) Sent:Invalid SRC IP                       |
| <i>tx-invalid-dip</i>                     | (Optional) Sent:Invalid DEST IP                      |
| <i>tx-own-ip</i>                          | (Optional) Sent:Destination is our own IP            |
| <i>tx-unattached-ip</i>                   | (Optional) Sent:Unattached IP                        |
| <i>tx-adj-create-fail</i>                 | (Optional) Sent:Adjacency Couldn't be added          |
| <i>tx-null-sip</i>                        | (Optional) Sent:Null Source IP                       |
| <i>tx-null-smac</i>                       | (Optional) Sent: Null Source MAC                     |
| <i>tx-client-enq-fail</i>                 | (Optional) Sent: Client Enqueue Failed               |
| <i>tx-dest-unreachable-proxy-arp</i>      | (Optional) Sent: Dest. not reachable for proxy arp   |
| <i>tx-dest-unreachable-enhanced-proxy</i> | (Optional) Sent:Dest. unreachable for enhanced proxy |
| <i>tx-dest-l2port-track</i>               | (Optional) Sent:Dest. on L2 port being tracked       |
| <i>tx-invalid-local-proxy</i>             | (Optional) Sent:Invalid Local proxy arp              |
| <i>tx-invalid-proxy</i>                   | (Optional) Sent:Invalid proxy arp                    |
| <i>tx-vip-not-active</i>                  | (Optional) Sent:VIP is not active                    |



|  |  |
|--|--|
| <i>tx-skip-refresh-over-core-and-flood-to-server</i> | (Optional) ARP refresh skipped over core and sent on server side |
| <i>rx-total</i>                                      | (Optional) Received: total                                       |
| <i>rx-req</i>  | (Optional) Received: Requests                                    |
| <i>rx-reply</i>                                      | (Optional) Received: Replies                                     |
| <i>rx-req-l2</i>                                     | (Optional) Received: Requests on L2                              |
| <i>rx-reply-l2</i>                                   | (Optional) Received: Replies on L2                               |
| <i>rx-proxy</i>                                      | (Optional) Received: Proxy arp                                   |
| <i>rx-local-proxy</i>                                | (Optional) Received: Local-Proxy arp                             |
| <i>rx-enhanced-proxy</i>                             | (Optional) Received: Enhanced Proxy arp                          |
| <i>rx-enhanced-proxy-anycast</i>                     | (Optional) Received: Anycast proxy Proxy arp                     |
| <i>rx-enhanced-proxy-l2port-track</i>                | (Optional) Received: L2 Port-track Proxy arp                     |
| <i>rx-tunnel</i>                                     | (Optional) Received: Tunneled                                    |
| <i>rx-fastpath</i>                                   | (Optional) Received: Fastpath                                    |
| <i>rx-snoop</i>                                      | (Optional) Received: Snooped                                     |
| <i>rx-drop</i>                                       | (Optional) Received: Dropped                                     |
| <i>rx-srvrport</i>                                   | (Optional) Received: on Server Port                              |
| <i>bad-if</i>  | (Optional) Appeared on a wrong interface                         |
| <i>bad-len</i>                                       | (Optional) Incorrect length                                      |
| <i>invalid-prot</i>                                  | (Optional) Invalid protocol packet                               |
| <i>invalid-hrd-type</i>                              | (Optional) Invalid Hardware type                                 |
| <i>invalid-ctxt</i>                                  | (Optional) Invalid context                                       |
| <i>ctxt-not-crtd</i>                                 | (Optional) Context not yet created                               |
| <i>invalid-l2</i>                                    | (Optional) Invalid layer 2 address length                        |
| <i>invalid-l3</i>                                    | (Optional) Invalid layer 3 address length                        |
| <i>invalid-sip</i>                                   | (Optional) Invalid source IP address                             |
| <i>our-sip</i>                                       | (Optional) Source IP address is our own                          |
| <i>arp-if-no-mem</i>                                 | (Optional) No mem to create per intf structure                   |
| <i>subnet-mismatch</i>                               | (Optional) Source address mismatch with subnet                   |
| <i>dir-bcast</i>                                     | (Optional) Directed broadcast source                             |

|                                 |  |
|---------------------------------|--|
| <i>invalid-dip</i>              | (Optional) Invalid destination IP address                          |
| <i>non-local-dst</i>            | (Optional) Non-local destination IP address                        |
| <i>non-active-fhrp</i>          | (Optional) Non-active FHRP dest IP address. Learn and drop         |
| <i>invalid-smac</i>             | (Optional) Invalid source MAC address                              |
| <i>our-smac</i>                 | (Optional) Source MAC address is our own                           |
| <i>not-init</i>                 | (Optional) Received before arp initialization                      |
| <i>l2-prxy-en</i>               | (Optional) L2 packet on proxy-arp-enabled interface                |
| <i>l2-port-untrusted</i>        | (Optional) L2 packet on untrusted L2 port                          |
| <i>stdby-fhrp-vip</i>           | (Optional) Packet with VIP on standby FHRP                         |
| <i>grat-prxy-en</i>             | (Optional) Grat arp received on proxy-arp-enabled interface        |
| <i>arp-req-ignore</i>           | (Optional) Requests came for existing entries                      |
| <i>l2-intf</i>                  | (Optional) Requests came on a L2 interface                         |
| <i>l2fm-query-fail</i>          | (Optional) L2FM query failed for a L2 Address                      |
| <i>tunnel_fail</i>              | (Optional) Dropping due to tunneling failures                      |
| <i>hsrp-active-vmac</i>         | (Optional) Dropping due to HSRP standby receiving HSRP active vmac |
| <i>rx-intf-down</i>             | (Optional) Received Interface Down                                 |
| <i>recv-glean-count</i>         | (Optional) Glean requests recv count                               |
| <i>refresh-req-from-clients</i> | (Optional) Refresh requests received from clients                  |
| <i>l2rib-signals</i>            | (Optional) Signals received from L2rib                             |
| <i>adds</i>                     | (Optional) Adds  |
| <i>dels</i>                     | (Optional) Deletes   |
| <i>timeouts</i>                 | (Optional) Timeouts  |

**Command Mode**

- /exec

## show ip arp suppression-cache

```
show ip arp suppression-cache { detail [ vlan <vlan_id> ] | summary | statistics | vlan <vlan_id> | local [ vlan
<vlan_id> ] | remote [ vlan <vlan_id> ] } [ __readonly__ TABLE_arp-suppression [ TABLE_entries <ip-addr>
<age> <mac> <vlan> <physical-iod> <flag> [ <remote-vtep-addr> | <remote-vtep-v6addr> ] ] [
TABLE_summary <remote-count> <local-count> <total-count> ] [ TABLE_stats TABLE_suppressed <total>
<requests> <requests-on-l2> <gratuitous> <gratuitous-on-l2> TABLE_forwarded <total-sent> <requests-sent>
<replies-sent> <requests-on-core-sent> <replies-on-core-sent> <dropped-sent> <requests-on-l2-sent>
<replies-on-l2-sent> <requests-on-core-l2-sent> <replies-on-core-l2-sent> <dropped-l2-sent> TABLE_received
<total-recv> <requests-recv> <replies-recv> <local-requests-recv> <local-replies-recv> <gratuitous-recv>
<dropped-recv> <requests-on-l2-recv> <replies-on-l2-recv> <gratuitous-l2-recv> <dropped-l2-recv>
TABLE_entrystats <adds> <dels> ] ]
```

### Syntax Description

|                       |                                       |
|-----------------------|---------------------------------------|
| show                  | Show running system information       |
| ip                    | Display IP information                |
| arp                   | Display ARP table and statistics      |
| suppression-cache     | arp-suppression-cache                 |
| detail                | show details                          |
| summary               | show summary                          |
| statistics            | show statistics                       |
| local                 | show local entries                    |
| remote                | show remote entries                   |
| vlan                  | (Optional) L2vlan                     |
| <i>vlan_id</i>        | (Optional) Vlan                       |
| <i>__readonly__</i>   | (Optional)                            |
| TABLE_arp-suppression | (Optional) IP ARP suppression-cache   |
| TABLE_entries         | (Optional) IP ARP suppression entries |
| <i>ip-addr</i>        | (Optional) IP address                 |
| <i>age</i>            | (Optional) Age                        |
| <i>mac</i>            | (Optional) MAC address                |
| <i>vlan</i>           | (Optional) vlan id                    |
| <i>physical-iod</i>   | (Optional) Physical iod               |
| <i>flag</i>           | (Optional) Flags                      |

|                                 |   |
|---------------------------------|---|
| <i>remote-vtep-addr</i>         | (Optional) Remote Vtep Address                |
| TABLE_summary                   | (Optional) IP ARP suppression-cache Summary   |
| <i>remote-count</i>             | (Optional) Remote count                       |
| <i>local-count</i>              | (Optional) Local count                        |
| <i>total-count</i>              | (Optional) Total count                        |
| TABLE_stats                     | (Optional) Show IP ARP suppression statistics |
| TABLE_suppressed                | (Optional) Suppressed table                   |
| <i>total</i>                    | (Optional) total                              |
| <i>requests</i>                 | (Optional) request                            |
| <i>requests-on-l2</i>           | (Optional) requests-on-l2                     |
| <i>gratuitous</i>               | (Optional) gratuitous                         |
| <i>gratuitous-on-l2</i>         | (Optional) gratuitous-on-l2                   |
| TABLE_forwarded                 | (Optional) Forwarded table                    |
| <i>total-sent</i>               | (Optional) total                              |
| <i>requests-sent</i>            | (Optional) Requests sent on L3                |
| <i>replies-sent</i>             | (Optional) Replies sent on L3                 |
| <i>requests-on-core-sent</i>    | (Optional) Request on core port               |
| <i>replies-on-core-sent</i>     | (Optional) Reply on core port                 |
| <i>dropped-sent</i>             | (Optional) Dropped                            |
| <i>requests-on-l2-sent</i>      | (Optional) Requests on L2                     |
| <i>replies-on-l2-sent</i>       | (Optional) Replies on L2                      |
| <i>requests-on-core-l2-sent</i> | (Optional) Request on core port L2            |
| <i>replies-on-core-l2-sent</i>  | (Optional) Reply on core port L2              |
| <i>dropped-l2-sent</i>          | (Optional) Dropped on L2                      |
| TABLE_received                  | (Optional) Received                           |
| <i>total-recv</i>               | (Optional) Total                              |
| <i>requests-recv</i>            | (Optional) Requests on L3 mode                |
| <i>replies-recv</i>             | (Optional) Replies on L3 mode                 |
| <i>local-requests-recv</i>      | (Optional) Local Request                      |

|                            |   |
|----------------------------|---|
| <i>local-replies-recv</i>  | (Optional) Local Responses                              |
| <i>gratuitous-recv</i>     | (Optional) Gratuitous on L3 mode                        |
| <i>dropped-recv</i>        | (Optional) Dropped on L3 mode                           |
| <i>requests-on-l2-recv</i> | (Optional) Requests on L2 mode                          |
| <i>replies-on-l2-recv</i>  | (Optional) Replies on L2 mode                           |
| <i>gratuitous-l2-recv</i>  | (Optional) Gratuitous on L2 mode                        |
| <i>dropped-l2-recv</i>     | (Optional) Dropped on L2 mode                           |
| TABLE_entrystats           | (Optional) ARP suppression-cache Local entry statistics |
| <i>adds</i>                | (Optional) Adds   |
| <i>dels</i>                | (Optional) Deletes                                      |

**Command Mode**

- /exec

## show ip arp suppression topo-info

```
show ip arp suppression topo-info [ <topo-id> ] [ __readonly__ { TABLE_ip_arp_suppression_topo_info [
<ip_arp_suppression_topo_id> ] [ <ip_arp_suppression_mode> ] [ <ip_arp_suppression_hmm_mode> ] } ]
```

### Syntax Description

|   |  |
|---|--|
| show                                      | Show running system information                |
| ip  | Configure IP features                          |
| arp                                       | Configure ARP parameters                       |
| suppression                               | ARP-suppression based event                    |
| topo-info                                 | E-VPN identifier                               |
| <i>topo-id</i>                            | (Optional) E-VPN identifier (VLAN-ID or BD-ID) |
| <i>__readonly__</i>                       | (Optional)                                     |
| <i>TABLE_ip_arp_suppression_topo_info</i> | (Optional) Show suppression topo-info          |
| <i>ip_arp_suppression_topo_id</i>         | (Optional) Show ARP suppression topo_id        |
| <i>ip_arp_suppression_mode</i>            | (Optional) Show ARP suppression mode           |
| <i>ip_arp_suppression_hmm_mode</i>        | (Optional) Show ARP suppression hmm mode       |

### Command Mode

- /exec

## show ip arp tunnel-statistics

```
show ip arp tunnel-statistics [ __readonly__ { TABLE_ip_arp_tunnel_stat [ <arp-tun-pkt-rcv-cnt> ] [
<arp-tun-pkt-rcv-ing-vpc> ] [ <arp-tun-pkt-rcv-ing-gpc> ] [ <arp-tun-pkt-rcv-ing-orp-vpc> ] [
<arp-tun-pkt-rcv-ing-orp-vpc-pl> ] [ <arp-tun-pkt-snd-cnt> ] [ <arp-tun-pkt-snd-snoop-cnt> ] [
<arp-tun-pkt-snd-non-local-vip-cnt> ] [ <arp-tun-pkt-snd-peer-gate-cnt> ] [ <arp-tun-pkt-snd-ing-vpc> ] [
<arp-tun-pkt-snd-ing-gpc> ] [ <arp-tun-pkt-snd-ing-orp-vpc> ] [ <arp-tun-pkt-snd-ing-orp-vpc-pl> ] [
<arp-tun-pkt-rcv-drp-cnt> ] [ <arp-tun-pkt-snd-drp-cnt> ] [ <arp-tun-pkt-snd-drp-snd-fail-cnt> ] [
<arp-tun-pkt-rcv-drp-ver-cnt> ] [ <arp-tun-pkt-rcv-drp-pl-cnt> ] [ <arp-tun-pkt-rcv-drp-ing-non-mct> ] [
<arp-tun-pkt-rcv-drp-inv-ing-intf> ] [ <arp-tun-pkt-snd-drp-inv-ing-intf> ] [
<arp-tun-pkt-rcvdrp-inv-gpc-core-sw> ] [ <arp-tun-pkt-rcvdrp-inv-gpc-peer-sw> ] [ <arp-tun-pkt-drp-inv-mcecm>
] [ <arp-tun-pkt-im-api-fail> ] [ <arp-tun-pkt-drp-ctxt-inv> ] [ <arp-tun-pkt-drp-mct-dwn> ] [
<arp-tun-pkt-rcv-drp-mbuf-op-fail> ] [ <arp-tun-pkt-snd-drp-mbuf-op-fail> ] [ <arp-tun-pkt-snd-drp-tunnel>
] [ <arp-tun-pkt-snd-drp-ce> ] [ <arp-tun-pkt-snd-drp-inv-gpc> ] [ <arp-tun-pkt-rcv-drp-inv-gpc> ] [
<arp-tun-pkt-sys-mcecm-key-not-found> ] } ] ]
```

### Syntax Description

|  |  |
|--|--|
| show                                     | Show running system information                        |
| ip                                       | Display IP information                                 |
| arp                                      | Display ARP table and statistics                       |
| tunnel-statistics                        | Display ARP statistics for tunneled packets            |
| __readonly__                             | (Optional)   |
| TABLE_ip_arp_tunnel_stat                 | (Optional) ARP Tunnel statistics                       |
| <i>arp-tun-pkt-rcv-cnt</i>               | (Optional) Total tunneled packets received             |
| <i>arp-tun-pkt-rcv-ing-vpc</i>           | (Optional) Tunneled packets rx for ingress vPC         |
| <i>arp-tun-pkt-rcv-ing-gpc</i>           | (Optional) Tunneled packets rx for ingress GPC         |
| <i>arp-tun-pkt-rcv-ing-orp-vpc</i>       | (Optional) Tunneled Packets rx for ingress orphan vPC  |
| <i>arp-tun-pkt-rcv-ing-orp-vpc-pl</i>    | (Optional) Tunneled Packets rx for ingress orphan vPC+ |
| <i>arp-tun-pkt-snd-cnt</i>               | (Optional) Total tunneled packets sent                 |
| <i>arp-tun-pkt-snd-snoop-cnt</i>         | (Optional) Tunneled packets Sent for ARP Snoop         |
| <i>arp-tun-pkt-snd-non-local-vip-cnt</i> | (Optional) Tunneled packets sent for Non-Local VIP     |
| <i>arp-tun-pkt-snd-peer-gate-cnt</i>     | (Optional) Tunneled Packets sent for Peer Gateway      |
| <i>arp-tun-pkt-snd-ing-vpc</i>           | (Optional) Tunneled packets tx for ingress vPC         |
| <i>arp-tun-pkt-snd-ing-gpc</i>           | (Optional) Tunneled packets tx for ingress GPC         |
| <i>arp-tun-pkt-snd-ing-orp-vpc</i>       | (Optional) Tunneled Packets tx for ingress orphan vPC  |

|  |  |
|--|--|
| <i>arp-tun-pkt-snd-ing-orp-vpc-pl</i>      | (Optional) Tunneled Packets tx for ingress orphan vPC+ |
| <i>arp-tun-pkt-rcv-drp-cnt</i>             | (Optional) Total tunnel packets rcv dropped            |
| <i>arp-tun-pkt-snd-drp-cnt</i>             | (Optional) Total tunnel packets send dropped           |
| <i>arp-tun-pkt-snd-drp-snd-fail-cnt</i>    | (Optional) Drops due to send failed                    |
| <i>arp-tun-pkt-rcv-drp-ver-cnt</i>         | (Optional) Received packet with invalid version        |
| <i>arp-tun-pkt-rcv-drp-pl-cnt</i>          | (Optional) Received packet with invalid payload type   |
| <i>arp-tun-pkt-rcv-drp-ing-non-mct</i>     | (Optional) Received packet on non mct interface        |
| <i>arp-tun-pkt-rcv-drp-inv-ing-intf</i>    | (Optional) Received packet with invalid ingress port   |
| <i>arp-tun-pkt-snd-drp-inv-ing-intf</i>    | (Optional) Drop send packets for invalid ingress port  |
| <i>arp-tun-pkt-rcvdrp-inv-gpc-core-sw</i>  | (Optional) Drop rcv pkt, invalid GPC of core switch    |
| <i>arp-tun-pkt-rcvdrp-inv-gpc-peer-sw</i>  | (Optional) Drop rcv pkt, invalid GPC of peer switch    |
| <i>arp-tun-pkt-drp-inv-mcec</i>            | (Optional) Failed to retrieve vPC ID while processing  |
| <i>arp-tun-pkt-im-api-fail</i>             | (Optional) IM api failed while processing              |
| <i>arp-tun-pkt-drp-ctxt-inv</i>            | (Optional) Drop tunnel packet as context is invalid    |
| <i>arp-tun-pkt-drp-mct-dwn</i>             | (Optional) Drop tunnel packet as mct is down           |
| <i>arp-tun-pkt-rcv-drp-mbuf-op-fail</i>    | (Optional) Drop rcv packets as mbuf operation failed   |
| <i>arp-tun-pkt-snd-drp-mbuf-op-fail</i>    | (Optional) Drop send packets as mbuf operation failed  |
| <i>arp-tun-pkt-snd-drp-tunnel</i>          | (Optional) Cannot tunnel a incoming tunneled packet    |
| <i>arp-tun-pkt-snd-drp-ce</i>              | (Optional) Cannot tunnel in a CE network               |
| <i>arp-tun-pkt-snd-drp-inv-gpc</i>         | (Optional) Drop send pkt, failed in retrieving the GPC |
| <i>arp-tun-pkt-rcv-drp-inv-gpc</i>         | (Optional) Drop rcv pkt, failed in retrieving the GPC  |
| <i>arp-tun-pkt-sys-mcecm-key-not-found</i> | (Optional) MCEC_ID to PHY_IF_INDEX not found in DB     |

**Command Mode**

- /exec



## show ip arp vpc-statistics

```
show ip arp vpc-statistics [ __readonly__ { TABLE_arp_vpc_stats [ <arp-pro-drp-pull-disable> ] [
<arp-pro-drp-push-msg-disable> ] [ <arp-pro-ign-snd-pull-disable> ] [ <arp-ign-snd-push-disable> ] [
<arp-drp-im-fail> ] [ <arp-drp-mcecm-fail> ] [ <arp-drp-invalid-pc-iod> ] [ <arp-drp-pt-lookup-fail> ] [
<arp-drp-resp-fail-no-mct> ] [ <arp-drp-resp-fail> ] [ <arp-mcecm-ifidx-vpc-fail> ] [
<arp-mcecm-vpc-ifidx-fail> ] [ <arp-periodic-mcecm-ifidx-vpc-fail> ] [ <arp-resp-sent> ] [ <arp-resp-recvd>
] [ <arp-resp-recv-err> ] [ <arp-rcvd-msg> ] [ <arp-send-fail> ] [ <arp-cfs-rel-dlvry-fail> ] [
<arp-cfs-rel-dnvry-suc> ] [ <arp-pkt-vmct-drop-count> ] [ <arp-drp-pt-add-fail> ] [ <arp-drp-no-mem> ] [
<arp-drp-tmr-cre-fail> ] [ <arp-drp-add-adj-fail> ] [ <arp-off-drp-pt-lookup-fail> ] [ <arp-dont-drp-vlan-mismat>
] [ <arp-drp-svi-invalid> ] [ <arp-dont-drop-sv-down> ] [ <arp-drp-mct-down> ] [ <arp-drp-ctxt-invalid> ] [
<arp-drp-vrf-invalid> ] [ <arp-drp-l3addr-invalid> ] [ <arp-drp-l3addr-sanity-fail> ] [ <arp-drp-mac-sanity-fail>
] [ <arp-own-rtr-mac> ] [ <arp-drp-own-ipaddr> ] [ <arp-drp-own-vipaddr> ] [ <arp-drp-adj-fail> ] [
<arp-drp-subnet-mismatch> ] [ <arp-drp-adj-exist> ] [ <arp-dont-drp-ip-not-enable> ] [ <arp-drp-total-cnt>
] [ <arp-dont-drop-total-cnt> ] [ <arp-drp-inval-phy-iod> ] [ <arp-add-adj> ] [ <arp-del-adj> ] [
<arp-adj-already-exist> ] [ <arp-sync-recv-op-add-adj> ] [ <arp-sync-recv-op-del-adj> ] [
<arp-sync-push-msg-adj-cnt> ] [ <arp-sync-send-op-add-adj> ] [ <arp-sync-send-op-del-adj> ] [
<arp-sync-adj-cnt> ] [ <arp-sync-addadj-fail> ] [ <arp-sync-drp-svi-inv> ] [ <arp-sync-drp-svi-dwn> ] [
<arp-sync-drp-ctxt-inv> ] [ <arp-sync-null-adj> ] [ <arp-sync-invalid-ip> ] [ <arp-periodic-sync-adj-l2-suppl-cnt>
] [ <arp-periodic-sync-stop-bcast-pkt-sync-count> ] [ <arp-periodic-sync-vmct-stop-orphan-sync-count> ] ]
]
```

### Syntax Description

|  |  |
|--|--|
| show                                     | Show running system information                                      |
| ip                                       | Display IP information   |
| arp                                      | Display ARP table and statistics                                     |
| vpc-statistics                           | Show vPC global statistics   |
| __readonly__                             | (Optional)   |
| TABLE_arp_vpc_stats                      | (Optional) Arp Vpc statistics  |
| <i>arp-mcecm-ifidx-vpc-fail</i>          | (Optional) Unable to retrieve VPC id from ifidx                      |
| <i>arp-mcecm-vpc-ifidx-fail</i>          | (Optional) Unable to retrieve ifidx from VPC id                      |
| <i>arp-periodic-mcecm-ifidx-vpc-fail</i> | (Optional) Unable to retrieve ifidx from VPC id during periodic sync |
| <i>arp-sync-recv-op-add-adj</i>          | (Optional) Total adjacencies recieved from peer to add               |
| <i>arp-sync-recv-op-del-adj</i>          | (Optional) Total adjacencies received from peer to delete            |
| <i>arp-sync-push-msg-adj-cnt</i>         | (Optional) Total gross adjacencies sent periodically                 |
| <i>arp-sync-send-op-add-adj</i>          | (Optional) Total adjacencies sent to peer to add                     |
| <i>arp-sync-send-op-del-adj</i>          | (Optional) Total adjacencies sent to peer to delete                  |
| <i>arp-sync-adj-cnt</i>                  | (Optional) Total periodic sync adjacencies                           |

|  |   |
|--|---|
| <i>arp-sync-addadj-fail</i>                        | (Optional) Failure in adding adjacencies while periodic sync send       |
| <i>arp-sync-drp-svi-inv</i>                        | (Optional) Total drops during periodic sync because of invalid svi      |
| <i>arp-sync-drp-svi-dwn</i>                        | (Optional) Total drops during periodic sync because of svi down         |
| <i>arp-sync-drp-ctxt-inv</i>                       | (Optional) Total drops during periodic sync because of invalid context  |
| <i>arp-sync-null-adj</i>                           | (Optional) Total drops while processsing syne of NULL Adjacencies       |
| <i>arp-sync-invalid-ip</i>                         | (Optional) Total drops while processing sync because of NULL IP         |
| <i>arp-periodic-sync-adj-l2-supp-cnt</i>           | (Optional) Total periodic sync adjacenciesadded for L2 suppression case |
| <i>arp-periodic-sync-stop-bcast-pkt-sync-count</i> | (Optional) Total Bcast packets that was stopped sync to peer            |
| <i>arp-pro-drp-pull-disable</i>                    | (Optional) Drop the received CFS pull request                           |
| <i>arp-pro-drp-push-msg-disable</i>                | (Optional) Drop the received CFS push message                           |
| <i>arp-pro-ign-snd-pull-disabe</i>                 | (Optional) Ignore to send pull request using CFSoE                      |
| <i>arp-ign-snd-push-disable</i>                    | (Optional) Ignore to send push message using CFSoE                      |
| <i>arp-drp-im-fail</i>                             | (Optional) IM api failed while processing CFS payload                   |
| <i>arp-drp-mcecm-fail</i>                          | (Optional) MCECM api failed while processing CFS payload                |
| <i>arp-drp-invalid-pc-iod</i>                      | (Optional) Invalid MCT port-channel iod                                 |
| <i>arp-drp-pt-lookup-fail</i>                      | (Optional) PT lookup failed while processing CFS payload                |
| <i>arp-drp-resp-fail-no-mct</i>                    | (Optional) Sending CFS response failed due to invalid MCT iod           |
| <i>arp-drp-resp-fail</i>                           | (Optional) Sending CFS response failed                                  |
| <i>arp-resp-sent</i>                               | (Optional) Response sent via CFSoE                                      |
| <i>arp-resp-recvd</i>                              | (Optional) Response received via CFSoE                                  |
| <i>arp-resp-recv-err</i>                           | (Optional) Response received via CFSoE with errors                      |
| <i>arp-rcvd-msg</i>                                | (Optional) Received message via CFSoE                                   |
| <i>arp-send-fail</i>                               | (Optional) Send message failed via CFSoE                                |
| <i>arp-cfs-rel-dlvry-fail</i>                      | (Optional) MCECM send api failed via CFSoE                              |
| <i>arp-cfs-rel-dmvry-suc</i>                       | (Optional) Send message succeeded via CFSoE                             |
| <i>arp-drp-pt-add-fail</i>                         | (Optional) PT add failed while processing offlist                       |
| <i>arp-drp-no-mem</i>                              | (Optional) Memory alloc failed while processing offlist databse         |
| <i>arp-drp-tmr-cre-fail</i>                        | (Optional) Timer create failed while processing offlist database        |

|  |  |
|--|--|
| <i>arp-drp-add-adj-fail</i>                          | (Optional) Adjacency addition failed while processing offlist database     |
| <i>arp-off-drp-pt-lookup-fail</i>                    | (Optional) PT lookup failed while processing offlist database              |
| <i>arp-dont-drp-vlan-mismat</i>                      | (Optional) VLAN mismatch while processing offlist database                 |
| <i>arp-drp-svi-invalid</i>                           | (Optional) SVI is invalid while processing offlist database                |
| <i>arp-dont-drop-sv-down</i>                         | (Optional) SVI is down while processing offlist database                   |
| <i>arp-drp-mct-down</i>                              | (Optional) MCT is down while processing offlist database                   |
| <i>arp-drp-ctxt-invalid</i>                          | (Optional) Ctxt_type is invalid while processing offlist database          |
| <i>arp-drp-vrf-invalid</i>                           | (Optional) VRF is invalid while processing offlist database                |
| <i>arp-drp-l3addr-invalid</i>                        | (Optional) VRF is invalid while processing offlist database                |
| <i>arp-drp-l3addr-sanity-fail</i>                    | (Optional) IP address sanity failed  |
| <i>arp-drp-mac-sanity-fail</i>                       | (Optional) MAC address sanity failed                                       |
| <i>arp-own-rtr-mac</i>                               | (Optional) Our own router mac  |
| <i>arp-drp-own-ipaddr</i>                            | (Optional) Our own ip address  |
| <i>arp-drp-own-vipadd</i>                            | (Optional) Our own virtual ip address                                      |
| <i>arp-drp-adj-fail</i>                              | (Optional) Create adjacency failed   |
| <i>arp-drp-subnet-mismatch</i>                       | (Optional) Subnet mismatch   |
| <i>arp-drp-adj-exist</i>                             | (Optional) Entry exists  |
| <i>arp-dont-drp-ip-not-enable</i>                    | (Optional) IP not enabled on interface                                     |
| <i>arp-drp-inval-phy-iod</i>                         | (Optional) Physical interface invalid                                      |
| <i>arp-drp-total-cnt</i>                             | (Optional) Total drop count  |
| <i>arp-dont-drop-total-cnt</i>                       | (Optional) Total don't drop count  |
| <i>arp-add-adj</i>                                   | (Optional) Total adjacency additions                                       |
| <i>arp-del-adj</i>                                   | (Optional) Total adjacency deletions                                       |
| <i>arp-adj-already-exist</i>                         | (Optional) Total adjacencies ignored as already exist                      |
| <i>arp-pkt-vmct-drop-count</i>                       | (Optional) Total virtual-mct packets dropped                               |
| <i>arp-periodic-sync-vmct-stop-orphan-sync-count</i> | (Optional) Total virtual-mct orphan hosts that was stopped syncing to peer |

**Command Mode**

- /exec

# show ip as-path-access-list

```
show ip as-path-access-list [ <aspl-name> | <aspl-cfg-name> ] [ __readonly__ TABLE_aspl <name> <seq>
<action> <rule> ]
```

## Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information           |
| ip                   | Display IP information                    |
| as-path-access-list  | List AS path access lists                 |
| <i>aspl-name</i>     | (Optional) AS path access list name       |
| <i>aspl-cfg-name</i> | (Optional) Known as-path access-list name |
| <i>__readonly__</i>  | (Optional)                                |
| TABLE_aspl           | (Optional)                                |
| <i>name</i>          | (Optional)                                |
| <i>seq</i>           | (Optional)                                |
| <i>action</i>        | (Optional)                                |
| <i>rule</i>          | (Optional)                                |

## Command Mode

- /exec

# show ip client

```
show ip client [ <client-name> ] [ __readonly__ [ TABLE_ip_clnt [ TABLE_clnt { <clnt-name> <clnt-uuid>
<clnt-pid> <clnt-ext-pid> [ <clnt-proto> ] <clnt-ind> <clnt-cntxt-id> <clnt-mts-sap> <clnt-flg>
<clnt-msg-succ-cnt> <clnt-msg-fail-cnt> [ <clnt-recv-fn-name> <clnt-recv-fn> ] } ] ] ] ]
```

## Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information                       |
| ip                       | Display IP information                                |
| client                   | Display clients registered with the IP process        |
| <i>client-name</i>       | (Optional) Display information for a single IP client |
| <i>__readonly__</i>      | (Optional)  |
| <i>TABLE_ip_clnt</i>     | (Optional)  |
| <i>TABLE_clnt</i>        | (Optional)  |
| <i>clnt-name</i>         | (Optional)  |
| <i>clnt-uuid</i>         | (Optional)  |
| <i>clnt-pid</i>          | (Optional)  |
| <i>clnt-ext-pid</i>      | (Optional)  |
| <i>clnt-proto</i>        | (Optional)  |
| <i>clnt-ind</i>          | (Optional)  |
| <i>clnt-cntxt-id</i>     | (Optional)  |
| <i>clnt-mts-sap</i>      | (Optional)  |
| <i>clnt-flg</i>          | (Optional)  |
| <i>clnt-msg-succ-cnt</i> | (Optional)  |
| <i>clnt-msg-fail-cnt</i> | (Optional)  |
| <i>clnt-recv-fn-name</i> | (Optional)  |
| <i>clnt-recv-fn</i>      | (Optional)  |

## Command Mode

- /exec

# show ip community-list

show ip community-list [ <cl\_name> ] [ \_\_readonly\_\_ TABLE\_cl <name> <seq> <action> <rule> ]

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                     |
| ip                  | Display IP information                              |
| community-list      | List community-list                                 |
| <i>cl_name</i>      | (Optional) Standard or expanded community-list name |
| <i>__readonly__</i> | (Optional)  |
| TABLE_cl            | (Optional)  |
| <i>name</i>         | (Optional)  |
| <i>seq</i>          | (Optional)  |
| <i>action</i>       | (Optional)  |
| <i>rule</i>         | (Optional)  |

## Command Mode

- /exec

## show ip dhcp global statistics

```
show ip dhcp global statistics [ __readonly__ <pkts_processed> <pkts_recvd_through_cfsoe> <pkts_fwded>
<pkts_cfsoe_fwded> <pkts_dropped> <pkts_dropped_from_untrusted_ports>
<pkts_dropped_src_mac_chk_fail> <pkts_dropped_opt82_ins_fail> <pkts_dropped_unknown_op_intf>
<pkts_dropped_unknown_pkt> <pkts_dropped_no_trust_inf> <pkts_dropped_relay_disable>
<pkts_dropped_no_binding_entry> <pkts_dropped_interface_error> <pkts_dropped_max_hops_exceeded>
<pkts_dropped_queue_full> ]
```

### Syntax Description

|  |  |
|--|--|
| show                                     | Show running system information                                |
| ip                                       | Show the IP features of the system                             |
| dhcp                                     | Show information about DHCP                                    |
| global                                   | DHCP global stats  |
| statistics                               | Statistics related to DHCP                                     |
| <i>__readonly__</i>                      | (Optional) Read only   |
| <i>pkts_processed</i>                    | (Optional) Packets processed                                   |
| <i>pkts_recvd_through_cfsoe</i>          | (Optional) Packets received through cfsoe                      |
| <i>pkts_fwded</i>                        | (Optional) Packets forwarded                                   |
| <i>pkts_cfsoe_fwded</i>                  | (Optional) Packets forwarded on cfsoe                          |
| <i>pkts_dropped</i>                      | (Optional) Total packets dropped                               |
| <i>pkts_dropped_from_untrusted_ports</i> | (Optional) Packets dropped from untrusted ports                |
| <i>pkts_dropped_src_mac_chk_fail</i>     | (Optional) Packets dropped due to MAC address check failure    |
| <i>pkts_dropped_opt82_ins_fail</i>       | (Optional) Packets dropped due to Option 82 insertion failure  |
| <i>pkts_dropped_unknown_op_intf</i>      | (Optional) Packets dropped due to o/p intf unknown             |
| <i>pkts_dropped_unknown_pkt</i>          | (Optional) Packets dropped which were unknown                  |
| <i>pkts_dropped_no_trust_inf</i>         | (Optional) Packets dropped due to no trusted ports             |
| <i>pkts_dropped_relay_disable</i>        | (Optional) Packets dropped due to dhcp relay not enabled       |
| <i>pkts_dropped_no_binding_entry</i>     | (Optional) Packets dropped due to no binding entry             |
| <i>pkts_dropped_interface_error</i>      | (Optional) Packets dropped due to interface error/no interface |
| <i>pkts_dropped_max_hops_exceeded</i>    | (Optional) Packets dropped due to max hops exceeded            |
| <i>pkts_dropped_queue_full</i>           | (Optional) Packets dropped due to queue full                   |

**Command Mode**

- /exec



## show ip dhcp option82 suboption info interface

```
show ip dhcp option82 suboption info interface [ <intf> ] [ __readonly__ <intf_header> { TABLE_intf_option82
<intf_name> <option82_status> <suboption_string> <tx_count> } ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                       |
| ip                      | Show the IP features of the system                    |
| dhcp                    | Show items in DHCP                                    |
| option82                | DHCP option82   |
| suboption               | DHCP option82 suboption                               |
| info                    | DHCP option82 suboption information                   |
| interface               | DHCP option82 suboption information of all interfaces |
| <i>intf</i>             | (Optional) interface                                  |
| <i>__readonly__</i>     | (Optional) Read only                                  |
| <i>intf_header</i>      | (Optional)  |
| TABLE_intf_option82     | (Optional)  |
| <i>intf_name</i>        | (Optional)  |
| <i>option82_status</i>  | (Optional)  |
| <i>suboption_string</i> | (Optional)  |
| <i>tx_count</i>         | (Optional)  |

### Command Mode

- /exec

## show ip dhcp relay

```
show ip dhcp relay [ __readonly__ <relay_service_enable> <relay_opt82_enable> <relay_opt82_customize>
<relay_subopt_VPN_enable> <relay_subopt_type_cisco_enable> <global_smart-relay_enable>
<global_relay_trusted_enable> <relay_trusted_port_enable> <global_src_addr_hsrp_enable>
<smart_relay_intf_hdr> [ TABLE_intf <smart_relay_enabled_intf> ] <subnet_bcast_intf_hdr> [ TABLE_intf
<subnet_bcast_enabled_intf> ] <trusted_port_intf_hdr> [ TABLE_intf <trusted_port_enabled_intf> ]
<relay_src_addr_hsrp_hdr> [ TABLE_intf <src_addr_hsrp_enabled_intf> ] <relay_address_hdr> [ TABLE_intf
<intf> <relay_address> <vrf_name> ] ]
```

### Syntax Description

|                                       |  |
|---------------------------------------|--|
| show                                  | Show running system information                              |
| ip                                    | Show the IP features of the system                           |
| dhcp                                  | Show items in DHCP   |
| relay                                 | DHCP relay   |
| <i>__readonly__</i>                   | (Optional) Read only   |
| <i>relay_service_enable</i>           | (Optional)   |
| <i>relay_opt82_enable</i>             | (Optional)   |
| <i>relay_opt82_customize</i>          | (Optional)   |
| <i>relay_subopt_VPN_enable</i>        | (Optional)   |
| <i>relay_subopt_type_cisco_enable</i> | (Optional)   |
| <i>global_smart-relay_enable</i>      | (Optional)   |
| <i>global_relay_trusted_enable</i>    | (Optional)   |
| <i>relay_trusted_port_enable</i>      | (Optional)   |
| <i>global_src_addr_hsrp_enable</i>    | (Optional) V4 Relay src-addr hsrp is globally enabled or not |
| <i>smart_relay_intf_hdr</i>           | (Optional) Smart relay interfaces header                     |
| TABLE_intf                            | (Optional)   |
| <i>smart_relay_enabled_intf</i>       | (Optional) smart-relay enabled interfaces                    |
| <i>subnet_bcast_intf_hdr</i>          | (Optional) Subnet broadcast interfaces header                |
| TABLE_intf                            | (Optional)   |
| <i>subnet_bcast_enabled_intf</i>      | (Optional) subnet_bcast enabled interfaces                   |
| <i>trusted_port_intf_hdr</i>          | (Optional) Trusted port interfaces header                    |
| TABLE_intf                            | (Optional)   |

|                                    |  |
|------------------------------------|--|
| <i>trusted_port_enabled_intfs</i>  | (Optional) trusted_port enabled interfaces                 |
| <i>relay_src_addr_hsrp_hdr</i>     | (Optional) Header for V4 Relay src-addr enabled interfaces |
| TABLE_intf                         | (Optional)   |
| <i>src_addr_hsrp_enabled_intfs</i> | (Optional) source-address hsrp enabled interfaces          |
| <i>relay_address_hdr</i>           | (Optional) relay address header                            |
| TABLE_intf                         | (Optional) Table for list of interfaces                    |
| <i>intf</i>                        | (Optional) interface name                                  |
| <i>relay_address</i>               | (Optional) helper address                                  |
| <i>vrf_name</i>                    | (Optional) vrf name  |

**Command Mode**

- /exec

## show ip dhcp relay address

```
show ip dhcp relay address [ interface <intf-range> ] [ __readonly__ <intf_header> [ TABLE_intf <intf2>
<relay_address> <vrf_name> ] ]
```

### Syntax Description

|                      |  |
|----------------------|--|
| show                 | Show running system information                |
| ip                   | Show the IP features of the system             |
| dhcp                 | Show DHCP                                      |
| relay                | relay address of the interface                 |
| address              | DHCP relay address                             |
| interface            | (Optional) DHCP relay address of the interface |
| <i>intf-range</i>    | (Optional) interface                           |
| <i>__readonly__</i>  | (Optional) Read only                           |
| <i>intf_header</i>   | (Optional) interface header                    |
| TABLE_intf           | (Optional)                                     |
| <i>intf2</i>         | (Optional) interface name                      |
| <i>relay_address</i> | (Optional) helper address                      |
| <i>vrf_name</i>      | (Optional) VRF name                            |

### Command Mode

- /exec

## show ip dhcp relay information trusted-sources

show ip dhcp relay information trusted-sources [ \_\_readonly\_\_ <header> [ TABLE\_intf <intf> ] ]

### Syntax Description

|                 |                                    |
|-----------------|------------------------------------|
| show            | Show running system information    |
| ip              | Show the IP features of the system |
| dhcp            | Show DHCP                          |
| relay           | DHCP Relay                         |
| information     | Relay information                  |
| trusted-sources | Relay Trusted Sources              |
| __readonly__    | (Optional) Read only               |
| TABLE_intf      | (Optional) trusted interface table |
| <i>header</i>   | (Optional) interface header        |
| <i>intf</i>     | (Optional) interface name          |

### Command Mode

- /exec

## show ip dhcp relay statistics

```
show ip dhcp relay statistics [ interface <intf> | { interface <intf> serverip <ip-addr-val> [ use-vrf <vrf-name>
] } ] [ __readonly__ [ <msg_stats_hdr> <msg_type_str> <tx_pkts> <rx_pkts> <drops> <msg_type_str_offer>
<offer_rx_pkts> <offer_tx_pkts> <offer_drops> <msg_type_str_request> <request_rx_pkts> <request_tx_pkts>
<request_drops> <msg_type_str_ack> <ack_rx_pkts> <ack_tx_pkts> <ack_drops> <msg_type_str_release>
<release_rx_pkts> <release_tx_pkts> <release_drops> <msg_type_str_decline> <decline_rx_pkts>
<decline_tx_pkts> <decline_drops> <msg_type_str_inform> <inform_rx_pkts> <inform_tx_pkts>
<inform_drops> <msg_type_str_nack> <nack_rx_pkts> <nack_tx_pkts> <nack_drops> <line>
<msg_type_str_total> <total_rx_pkts> <total_tx_pkts> <total_drops> <line_x> ] [ <server_consolidated_hdr>
[ TABLE_server_info <server_helper_addr> <server_vrf> <server_total_request> <server_total_response>
] <line_y> ] [ <l3_fwd_hdr> <l3_fwd_rx_pkts> <l3_fwd_tx_pkts> <l3_fwd_drops> <non_dhcp_hdr>
<non_dhcp_rx_pkts> <non_dhcp_tx_pkts> <non_dhcp_drops> <drop_hdr> <drop_validation_fail>
<drop_relay_disable> <drop_invalid_msg_type> <drop_intf_err> <drop_tx_sock_err>
<drop_tx_fail_client_intf> <drop_unknown_op_intf> <drop_l3_unknown_op_intf> <drop_max_hops>
<drop_opt82_insert_fail> <drop_malformed> <drop_mct_drop> <drop_untrusted_relay_intf> ] [
<server_discover> <server_request> <server_decline> <server_release> <server_inform> <server_ack>
<server_nack> <server_offer> <server_resp_hdr> <drop_unknown> <server_req_hdr> ] <footer> ]
```

### Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information           |
| ip                   | Show the IP features of the system        |
| dhcp                 | Show information about DHCP               |
| relay                | DHCP Relay                                |
| statistics           | Statistics related to DHCP                |
| interface            | (Optional) input interface                |
| <i>intf</i>          | (Optional) interface                      |
| serverip             | (Optional) Helper address                 |
| <i>ip-addr-val</i>   | (Optional) IP address                     |
| use-vrf              | (Optional) helper address VRF membership  |
| <i>vrf-name</i>      | (Optional) VRF name                       |
| __readonly__         | (Optional) Read only                      |
| <i>msg_stats_hdr</i> | (Optional) dhcp message statistics header |
| <i>msg_type_str</i>  | (Optional) dhcp message type              |
| <i>rx_pkts</i>       | (Optional) received dhcp packets          |
| <i>tx_pkts</i>       | (Optional) forwarded dhcp packets         |
| <i>drops</i>         | (Optional) dhcp packet drops              |

|                             |                                   |
|-----------------------------|-----------------------------------|
| <i>msg_type_str_offer</i>   | (Optional) dhcp message type      |
| <i>offer_rx_pkts</i>        | (Optional) received dhcp packets  |
| <i>offer_tx_pkts</i>        | (Optional) forwarded dhcp packets |
| <i>offer_drops</i>          | (Optional) dhcp packet drops      |
| <i>msg_type_str_request</i> | (Optional) dhcp message type      |
| <i>request_rx_pkts</i>      | (Optional) received dhcp packets  |
| <i>request_tx_pkts</i>      | (Optional) forwarded dhcp packets |
| <i>request_drops</i>        | (Optional) dhcp packet drops      |
| <i>msg_type_str_ack</i>     | (Optional) dhcp message type      |
| <i>ack_rx_pkts</i>          | (Optional) received dhcp packets  |
| <i>ack_tx_pkts</i>          | (Optional) forwarded dhcp packets |
| <i>ack_drops</i>            | (Optional) dhcp packet drops      |
| <i>msg_type_str_release</i> | (Optional) dhcp message type      |
| <i>release_rx_pkts</i>      | (Optional) received dhcp packets  |
| <i>release_tx_pkts</i>      | (Optional) forwarded dhcp packets |
| <i>release_drops</i>        | (Optional) dhcp packet drops      |
| <i>msg_type_str_decline</i> | (Optional) dhcp message type      |
| <i>decline_rx_pkts</i>      | (Optional) received dhcp packets  |
| <i>decline_tx_pkts</i>      | (Optional) forwarded dhcp packets |
| <i>decline_drops</i>        | (Optional) dhcp packet drops      |
| <i>msg_type_str_inform</i>  | (Optional) dhcp message type      |
| <i>inform_rx_pkts</i>       | (Optional) received dhcp packets  |
| <i>inform_tx_pkts</i>       | (Optional) forwarded dhcp packets |
| <i>inform_drops</i>         | (Optional) dhcp packet drops      |
| <i>msg_type_str_nack</i>    | (Optional) dhcp message type      |
| <i>nack_rx_pkts</i>         | (Optional) received dhcp packets  |
| <i>nack_tx_pkts</i>         | (Optional) forwarded dhcp packets |
| <i>nack_drops</i>           | (Optional) dhcp packet drops      |
| <i>line</i>                 | (Optional)                        |

|                                 |   |
|---------------------------------|---|
| <i>msg_type_str_total</i>       | (Optional) total dhcp packets of all message types  |
| <i>total_rx_pkts</i>            | (Optional) total forwarded dhcp packets             |
| <i>total_tx_pkts</i>            | (Optional) total forwarded dhcp packets             |
| <i>total_drops</i>              | (Optional) total dhcp drops                         |
| <i>line_x</i>                   | (Optional)  |
| <i>server_consolidated_hdr</i>  | (Optional) DHCP server stats                        |
| TABLE_server_info               | (Optional)  |
| <i>server_helper_addr</i>       | (Optional) dhcp server address                      |
| <i>server_vrf</i>               | (Optional) dhcp server vrf                          |
| <i>server_total_request</i>     | (Optional) total dhcp requests to server            |
| <i>server_total_response</i>    | (Optional) total dhcp responses from server         |
| <i>line_y</i>                   | (Optional)  |
| <i>l3_fwd_hdr</i>               | (Optional) DHCP l3 forward header                   |
| <i>l3_fwd_rx_pkts</i>           | (Optional) DHCP l3 received packets                 |
| <i>l3_fwd_tx_pkts</i>           | (Optional) DHCP l3 forwarded packets                |
| <i>l3_fwd_drops</i>             | (Optional) DHCP l3 forward drops                    |
| <i>non_dhcp_hdr</i>             | (Optional) non dhcp packets header                  |
| <i>non_dhcp_rx_pkts</i>         | (Optional) total non dhcp packets received          |
| <i>non_dhcp_tx_pkts</i>         | (Optional) total non dhcp packets forwarded         |
| <i>non_dhcp_drops</i>           | (Optional) total non dhcp drops                     |
| <i>drop_hdr</i>                 | (Optional) total dhcp drops in various scenarios    |
| <i>drop_validation_fail</i>     | (Optional) drops due to option 82 validation failed |
| <i>drop_relay_disable</i>       | (Optional) drops due to dhcp relay not enabled      |
| <i>drop_invalid_msg_type</i>    | (Optional) drops due to invalid message type        |
| <i>drop_intf_err</i>            | (Optional) drops due to interface error             |
| <i>drop_tx_sock_err</i>         | (Optional) tx failure towards server                |
| <i>drop_tx_fail_client_intf</i> | (Optional) drops due to Tx failure towards client   |
| <i>drop_unknown_op_intf</i>     | (Optional) Unknown output interface                 |
| <i>drop_l3_unknown_op_intf</i>  | (Optional) unknown vrf interface for server         |



|                                  |   |
|----------------------------------|---|
| <i>drop_max_hops</i>             | (Optional) drops due to max hop exceeded            |
| <i>drop_opt82_insert_fail</i>    | (Optional) Insertion of option 82 failed            |
| <i>drop_malformed</i>            | (Optional) drops due to packet malformed            |
| <i>drop_mct_drop</i>             | (Optional) drops through mct                        |
| <i>drop_untrusted_relay_intf</i> | (Optional) drops due to untrusted relay interface   |
| <i>server_discover</i>           | (Optional) DHCP discover messages relayed to server |
| <i>server_request</i>            | (Optional) DHCP request messages relayed to server  |
| <i>server_decline</i>            | (Optional) DHCP decline messages relayed to server  |
| <i>server_release</i>            | (Optional) DHCP release messages relayed to server  |
| <i>server_inform</i>             | (Optional) DHCP inform messages relayed to server   |
| <i>server_ack</i>                | (Optional) DHCP ack messages relayed from server    |
| <i>server_nack</i>               | (Optional) DHCP nack messages relayed from server   |
| <i>server_offer</i>              | (Optional) DHCP offer messages relayed from server  |
| <i>server_resp_hdr</i>           | (Optional) DHCP server response header              |
| <i>drop_unknown</i>              | (Optional) drops due to Unknown Failure             |
| <i>server_req_hdr</i>            | (Optional) DHCP server request header               |
| <i>footer</i>                    | (Optional) footer line                              |

**Command Mode**

- /exec

## show ip dhcp snooping

```
show ip dhcp snooping [ __readonly__ <snoop_service_enable> <snoop_gbl_enable> <snoop_vlan_enable>
<snoop_oper_vlan_enable> <snoop_opt82_enable> <snoop_hwaddr_verify_enable> <snoop_hdr> [ {
TABLE_intf_entry <intf_entry_if_index> <intf_entry_trust_dhcp> <intf_entry_pkt_limit> } ] ]
```

### Syntax Description

|                                   |   |
|-----------------------------------|---|
| show                              | Show running system information                               |
| ip                                | Show the IP features of the system                            |
| dhcp                              | Show items in DHCP  |
| snooping                          | DHCP snooping   |
| <i>__readonly__</i>               | (Optional) Read only  |
| <i>snoop_service_enable</i>       | (Optional)  |
| <i>snoop_gbl_enable</i>           | (Optional)  |
| <i>snoop_vlan_enable</i>          | (Optional)  |
| <i>snoop_oper_vlan_enable</i>     | (Optional)  |
| <i>snoop_opt82_enable</i>         | (Optional)  |
| <i>snoop_hwaddr_verify_enable</i> | (Optional)  |
| <i>snoop_hdr</i>                  | (Optional)  |
| TABLE_intf_entry                  | (Optional)  |
| <i>intf_entry_if_index</i>        | (Optional)  |
| <i>intf_entry_trust_dhcp</i>      | (Optional) is DHCP snooping trusted on the interface          |
| <i>intf_entry_pkt_limit</i>       | (Optional) limit for DHCP packets per second on the interface |

### Command Mode

- /exec

# show ip dhcp snooping binding

show ip dhcp snooping binding [ <ip> | <mac> | vlan <vlan-range> |

## Syntax Description

|                   |  |
|-------------------|--|
| show              | Show running system information                            |
| ip                | Show the IP features of the system                         |
| dhcp              | Show items in DHCP   |
| snooping          | DHCP snooping  |
| binding           | DHCP snooping bindings                                     |
| <i>ip</i>         | (Optional) Binding entry IP address                        |
| <i>mac</i>        | (Optional) Binding entry MAC address                       |
| vlan              | (Optional) Binding entry VLAN                              |
| <i>vlan-range</i> | (Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |

## Command Mode

- /exec

# show ip dhcp snooping statistics

```
show ip dhcp snooping statistics [ { vlan <vlan-id> interface <intf> } |
```

## Syntax Description

|                |                                    |
|----------------|------------------------------------|
| <i>vlan-id</i> | (Optional) ]                       |
| show           | Show running system information    |
| ip             | Show the IP features of the system |
| dhcp           | Show information about DHCP        |
| snooping       | DHCP snooping                      |
| statistics     | Statistics related to DHCP         |
| vlan           | (Optional) VLAN                    |
| interface      | (Optional) input interface         |
| <i>intf</i>    | (Optional) interface               |

## Command Mode

- /exec

# show ip dhcp status

show ip dhcp status [ *\_\_readonly\_\_* [ *<current\_cli\_op>* ] [ *<last\_cli\_op>* *<last\_cli\_stat>* ] ]

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                              |
| ip                    | Show the IP features of the system                           |
| dhcp                  | Show information about DHCP                                  |
| status                | Current CLI command and execution status of the last command |
| <i>__readonly__</i>   | (Optional) Read only   |
| <i>current_cli_op</i> | (Optional) current cli operation                             |
| <i>last_cli_op</i>    | (Optional) last cli operation                                |
| <i>last_cli_stat</i>  | (Optional) last cli status                                   |

## Command Mode

- /exec

# show ip dns source-interface

```
show ip dns source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipdnsvrf
<vrfname> <ifname> } ] ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information              |
| ip                    | Display IP information                       |
| dns                   | Display domain-lookup information            |
| source-interface      | Display source interface information         |
| vrf                   | (Optional) Display per-VRF information       |
| <i>vrf-name</i>       | (Optional) VRF name                          |
| <i>vrf-known-name</i> | (Optional) Known VRF name                    |
| <i>__readonly__</i>   | (Optional)                                   |
| TABLE_ipdnsvrf        | (Optional) source interface of dns given vrf |
| <i>vrfname</i>        | (Optional) vrfname                           |
| <i>ifname</i>         | (Optional) ifname                            |

## Command Mode

- /exec

## show ip dns source-interface vrf all

```
show ip dns source-interface vrf all [ __readonly__ [ { TABLE_ipdns <vrfname> <ifname> } ] ]
```

### Syntax Description

|                  |                                      |
|------------------|--------------------------------------|
| show             | Show running system information      |
| ip               | Display IP information               |
| dns              | Display domain-lookup information    |
| source-interface | Display source interface information |
| vrf              | Display per-VRF information          |
| all              | Display entries for all vrfs         |
| __readonly__     | (Optional)                           |
| TABLE_ipdns      | (Optional) source interface of dns   |
| <i>vrfname</i>   | (Optional) vrfname                   |
| <i>ifname</i>    | (Optional) ifname                    |

### Command Mode

- /exec

# show ip extcommunity-list

show ip extcommunity-list [ <extcl\_name> ] [ \_\_readonly\_\_ TABLE\_extcl <name> <action> <rule> ]

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                     |
| ip                  | Display IP information                              |
| extcommunity-list   | List extcommunity-list                              |
| <i>extcl_name</i>   | (Optional) Standard or expanded community-list name |
| <i>__readonly__</i> | (Optional)  |
| TABLE_extcl         | (Optional)  |
| <i>name</i>         | (Optional)  |
| <i>action</i>       | (Optional)  |
| <i>rule</i>         | (Optional)  |

## Command Mode

- /exec



# show ip fib distribution

show ip fib distribution [ pauz | rezum ]

## Syntax Description

|              |   |
|--------------|---|
| show         |   |
| ip           | ipv4                                      |
| fib          | forwarding information                    |
| distribution | fib distribution information              |
| pauz         | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| rezum        | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |

## Command Mode

- /exec

# show ip fib distribution clients

show ip fib distribution clients [ \_\_readonly\_\_ <id><pid><name><shms><shme><shmn> ]

## Syntax Description

|              |                            |
|--------------|----------------------------|
| show         |                            |
| ip           | ipv4                       |
| fib          | forwarding information     |
| distribution | fib distribution info      |
| clients      | unicast client information |
| __readonly__ | (Optional)                 |

## Command Mode

- /exec

## show ip fib distribution mroute

```
show ip fib distribution mroute [ { <group> | <gprefix> } [ <source> ] ] [ table <id> ] [ __readonly__
TABLE_vrf [ <vrf-name> ] [ <table-name> ] [ <table-id> ] [ <table-wildcard> ] [ <total-num-groups> ] [
TABLE_route_summary [ <vrf-name> ] [ <total-num-routes> ] [ <num-star-g-route> ] [ <num-sg-route> ] [
<num-star-g-prfx> ] [ <num-group-count> ] ] [ TABLE_one_route [ <source-addr> ] [ <source-len> ] [
<group-addr> ] [ <group-len> ] [ <df-ordinal> ] [ <rpf-intf> ] [ <flags> ] [ <stats-pkts> ] [ <stats-bytes> ] [
<oif-count> ] [ <oiflist-index> ] [ TABLE_oif [ <oif-name> ] [ <mti-src-intf> ] [ <mti-grp-ip> ] [ <mti-src-ip>
] [ <next-hop> ] ] ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    |   |
| ip                      | IP information                                |
| fib                     | Forwarding Information                        |
| distribution            | FIB distribution information                  |
| mroute                  | MFDM IP multicast routing table               |
| <i>group</i>            | (Optional) IPv4 Multicast Group Address       |
| <i>gprefix</i>          | (Optional) IPv4 Multicast Group Prefix        |
| <i>source</i>           | (Optional) IPv4 Source Address                |
| table                   | (Optional) Specify Multicast Routing Table    |
| <i>id</i>               | (Optional) Multicast Routing Table Identifier |
| <i>__readonly__</i>     | (Optional)                                    |
| TABLE_vrf               | (Optional)                                    |
| <i>vrf-name</i>         | (Optional)                                    |
| <i>table-name</i>       | (Optional)                                    |
| <i>table-id</i>         | (Optional)                                    |
| <i>table-wildcard</i>   | (Optional)                                    |
| <i>total-num-groups</i> | (Optional)                                    |
| TABLE_route_summary     | (Optional)                                    |
| <i>total-num-routes</i> | (Optional)                                    |
| <i>num-star-g-route</i> | (Optional)                                    |
| <i>num-sg-route</i>     | (Optional)                                    |
| <i>num-star-g-prfx</i>  | (Optional)                                    |

|                        |            |
|------------------------|------------|
| <i>num-group-count</i> | (Optional) |
| TABLE_one_route        | (Optional) |
| <i>source-addr</i>     | (Optional) |
| <i>source-len</i>      | (Optional) |
| <i>group-addr</i>      | (Optional) |
| <i>group-len</i>       | (Optional) |
| <i>df-ordinal</i>      | (Optional) |
| <i>rpf-intf</i>        | (Optional) |
| <i>flags</i>           | (Optional) |
| <i>stats-pkts</i>      | (Optional) |
| <i>stats-bytes</i>     | (Optional) |
| <i>oif-count</i>       | (Optional) |
| <i>oiflist-index</i>   | (Optional) |
| TABLE_oif              | (Optional) |
| <i>oif-name</i>        | (Optional) |
| <i>mti-src-intf</i>    | (Optional) |
| <i>mti-grp-ip</i>      | (Optional) |
| <i>mti-src-ip</i>      | (Optional) |
| <i>next-hop</i>        | (Optional) |

**Command Mode**

- /exec

# show ip fib distribution multicast

```
show ip fib distribution multicast [ messages ] [ __readonly__ <fibstate> <slot> <accepting_routes>
<num_accepting_routes> ]
```

## Syntax Description

|                             |  |
|-----------------------------|--|
| show                        |  |
| ip                          | IP information                                       |
| fib                         | Forwarding Information                               |
| distribution                | FIB distribution information                         |
| multicast                   | Multicast FIB distribution information               |
| messages                    | (Optional) Outstanding Message Information           |
| <i>__readonly__</i>         | (Optional)   |
| <i>fibstate</i>             | (Optional) IP Multicast FIB process state            |
| <i>slot</i>                 | (Optional) Slot                                      |
| <i>accepting_routes</i>     | (Optional) Indicates whether FIB is accepting routes |
| <i>num_accepting_routes</i> | (Optional) Number of fibs accepting routes           |

## Command Mode

- /exec

# show ip fib distribution state

```
show ip fib distribution state [ __readonly__ <slot> <state><ttc><tprc><tv4ac><tv6ac> { TABLE_fib_state
<tid><tafi><prc><pc><tname> } ]
```

## Syntax Description

|                 |                            |
|-----------------|----------------------------|
| show            |                            |
| ip              | ipv4                       |
| fib             | forwarding information     |
| distribution    | fib distribution info      |
| state           | unicast fib state info     |
| __readonly__    | (Optional)                 |
| <i>slot</i>     | (Optional) slot number     |
| TABLE_fib_state | (Optional) fib-state table |

## Command Mode

- /exec

# show ip fib mroute

```
show ip fib mroute [ { <group> | <gprefix> } [ <source> ] ] [ table <table-id> ] [ module <module> ] [
__readonly__ <table_type> <num_groups> <num_sources> <src_len> <grp_len> <df_ordinal> <rpfif>
<rpf_ifindex> <flag> <flag_value> <route_pkts> <route_bytes> <oiflist_id> <platform_id> <oif_count>
<refcount> <oifname> <oifindex> <oif_pkts> <oif_bytes> ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                |   |
| ip                  | Display IP information                                    |
| fib                 | Forwarding information                                    |
| mroute              | Multicast IPv4 routes                                     |
| <i>group</i>        | (Optional) Multicast IPv4 Group Address                   |
| <i>gprefix</i>      | (Optional) Multicast IPv4 Group Prefix                    |
| <i>source</i>       | (Optional) Multicast IPv4 Source Address                  |
| table               | (Optional) display info per vpn-id                        |
| <i>table-id</i>     | (Optional) table-id                                       |
| module              | (Optional) slot   |
| <i>module</i>       | (Optional) slot number                                    |
| <i>__readonly__</i> | (Optional)  |
| <i>table_type</i>   | (Optional) Table Type                                     |
| <i>num_groups</i>   | (Optional) Number of group entries in the table           |
| <i>num_sources</i>  | (Optional) Number of (S, G) entries for the group address |
| <i>src_len</i>      | (Optional) Source Address Mask                            |
| <i>grp_len</i>      | (Optional) Group address Mask                             |
| <i>df_ordinal</i>   | (Optional) DF ordinal                                     |
| <i>rpfif</i>        | (Optional) RPF interface                                  |
| <i>rpf_ifindex</i>  | (Optional) RPF Interface ifIndex                          |
| <i>flag</i>         | (Optional) Route type flag                                |
| <i>flag_value</i>   | (Optional) hex value of route flag                        |
| <i>route_pkts</i>   | (Optional) Route packet count                             |

|                    |                                     |
|--------------------|-------------------------------------|
| <i>route_bytes</i> | (Optional) Route bytes              |
| <i>oiflist_id</i>  | (Optional) OIF list Identifier      |
| <i>platform_id</i> | (Optional) Platform-index           |
| <i>oif_count</i>   | (Optional) Number of OIFs           |
| <i>refcount</i>    | (Optional) OIF list Reference Count |
| <i>oifname</i>     | (Optional) OIF Interface name       |
| <i>oifindex</i>    | (Optional) OIF Interface ifIndex    |
| <i>oif_pkts</i>    | (Optional) OIF packets              |
| <i>oif_bytes</i>   | (Optional) OIF bytes                |

**Command Mode**

- /exec



# show ip fib route

```
show ip fib route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> ] [ summary | <prefix>
[ longer-prefixes ] | <address> | interface <interface> | next-hop <nh> | attached | unresolved | adjacency {
<aif> <anh> | drop | glean | punt } ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all>
} ] + [ __readonly__ <header> <vrfname> <tableid> <prefix-count> <pfx> { <nexthop> | <special> } <intf>
<route-count> <path-count> <mask-length> <routes-per-mask> ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  |   |
| ip                    | Display IP information                              |
| fib                   | Forwarding information                              |
| route                 | display IP routing table                            |
| vrf                   | (Optional) display info per VRF                     |
| <i>vrf-name</i>       | (Optional) VRF name                                 |
| <i>vrf-known-name</i> | (Optional) Known VRF name                           |
| vrf-all               | (Optional) Display information for all VRFs         |
| table                 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED           |
| <i>table_id</i>       | (Optional) table number                             |
| summary               | (Optional) display route counts                     |
| <i>prefix</i>         | (Optional) display single exact match route         |
| longer-prefixes       | (Optional) display longer prefixes                  |
| <i>address</i>        | (Optional) display single longest match route       |
| interface             | (Optional) display routes with this output i/f only |
| <i>interface</i>      | (Optional) output interface                         |
| next-hop              | (Optional) display routes with this next-hop only   |
| <i>nh</i>             | (Optional) next hop address                         |
| attached              | (Optional) display directly connected routes        |
| unresolved            | (Optional) display unresolved routes                |
| adjacency             | (Optional) display routes via specified adjacency   |
| <i>aif</i>            | (Optional) adjacency output interface               |
| <i>anh</i>            | (Optional) adjacency next-hop address               |

|                        |   |
|------------------------|---|
| drop                   | (Optional) display routes via drop adjacency  |
| glean                  | (Optional) display routes via glean adjacency |
| punt                   | (Optional) display routes via punt adjacency  |
| module                 | (Optional) slot                               |
| <i>module</i>          | (Optional) slot number                        |
| __readonly__           | (Optional)                                    |
| <i>header</i>          | (Optional) header string                      |
| <i>vrfname</i>         | (Optional) VRF name                           |
| <i>tableid</i>         | (Optional) table identifier                   |
| <i>prefix-count</i>    | (Optional) total number of prefix in VRF      |
| <i>px</i>              | (Optional) ipv4 prefix                        |
| <i>nexthop</i>         | (Optional) next hop address                   |
| <i>special</i>         | (Optional) special adjacencies                |
| <i>intf</i>            | (Optional) output interface                   |
| <i>route-count</i>     | (Optional) total number of routes in VRF      |
| <i>path-count</i>      | (Optional) total number of paths in VRF       |
| <i>mask-length</i>     | (Optional) length of mask                     |
| <i>routes-per-mask</i> | (Optional)                                    |

### Command Mode

- /exec

# show ip ftp source-interface

```
show ip ftp source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipftpvrft
<vrfname> <ifname> } ] ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information              |
| ip                    | Display IP information                       |
| ftp                   | Display FTP client information               |
| source-interface      | Display source interface information         |
| vrf                   | (Optional) Display per-VRF information       |
| <i>vrf-name</i>       | (Optional) VRF name                          |
| <i>vrf-known-name</i> | (Optional) Known VRF name                    |
| <i>__readonly__</i>   | (Optional)                                   |
| TABLE_ipftpvrft       | (Optional) source interface of ftp given vrf |
| <i>vrfname</i>        | (Optional) vrfname                           |
| <i>ifname</i>         | (Optional) ifname                            |

## Command Mode

- /exec

## show ip ftp source-interface vrf all

```
show ip ftp source-interface vrf all [ __readonly__ [ { TABLE_ipftp <vrfname> <ifname> } ] ]
```

### Syntax Description

|                  |                                      |
|------------------|--------------------------------------|
| show             | Show running system information      |
| ip               | Display IP information               |
| ftp              | Display FTP client information       |
| source-interface | Display source interface information |
| vrf              | Display per-VRF information          |
| all              | Display entries for all vrfs         |
| __readonly__     | (Optional)                           |
| TABLE_ipftp      | (Optional) source interface of ftp   |
| <i>vrfname</i>   | (Optional) vrfname                   |
| <i>ifname</i>    | (Optional) ifname                    |

### Command Mode

- /exec

## show ip http source-interface

```
show ip http source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_iphttpvrf
<vrfname> <ifname> } ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information               |
| ip                    | Display IP information                        |
| http                  | Display HTTP client information               |
| source-interface      | Display source interface information          |
| vrf                   | (Optional) Display per-VRF information        |
| <i>vrf-name</i>       | (Optional) VRF name                           |
| <i>vrf-known-name</i> | (Optional) Known VRF name                     |
| <i>__readonly__</i>   | (Optional)                                    |
| TABLE_iphttpvrf       | (Optional) source interface of http given vrf |
| <i>vrfname</i>        | (Optional) vrfname                            |
| <i>ifname</i>         | (Optional) ifname                             |

### Command Mode

- /exec

## show ip http source-interface vrf all

```
show ip http source-interface vrf all [ __readonly__ [ { TABLE_iphttp <vrfname> <ifname> } ] ]
```

### Syntax Description

|                  |                                      |
|------------------|--------------------------------------|
| show             | Show running system information      |
| ip               | Display IP information               |
| http             | Display HTTP client information      |
| source-interface | Display source interface information |
| vrf              | Display per-VRF information          |
| all              | Display entries for all vrfs         |
| __readonly__     | (Optional)                           |
| TABLE_iphttp     | (Optional) source interface of http  |
| <i>vrfname</i>   | (Optional) vrfname                   |
| <i>ifname</i>    | (Optional) ifname                    |

### Command Mode

- /exec

## show ip igmp groups

```
show ip igmp { groups | route } [ <source> [ <group> ] | <group> [ <source> ] ] [ <interface> ] [ summary ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ summary-old ] [ __readonly__ [ TABLE_vrf [ <if-name>
] [ <vrfname> ] [ <entry-count> ] [ <group-addr> ] [ <sourceaddress> ] [ TABLE_group [ <group-addr> ] [
<group-type> ] [ <if-name> ] [ <uptime> ] [ <expires> ] [ <reporter> ] ] [ TABLE_source [ <source-addr> ]
[ <group-type> ] [ <translate> ] [ <if-name> ] [ <uptime> ] [ <expires> ] [ <reporter> ] ] [ <vrf-cntxt> ] [
<g-count> ] [ <sg-count> ] ] ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                              |
| ip                    | Display IP information                                       |
| igmp                  | Display IGMP status and configuration                        |
| groups                | Display IGMP attached group membership information           |
| route                 | Display IGMP attached group membership information           |
| <i>group</i>          | (Optional) Multicast IP address of single group to display   |
| <i>source</i>         | (Optional) Source IP address                                 |
| vrf                   | (Optional) Display per-VRF information                       |
| <i>vrf-name</i>       | (Optional) VRF name  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                    |
| all                   | (Optional) Display information for all VRFs                  |
| <i>interface</i>      | (Optional) Display group membership on single interface name |
| summary               | (Optional) Display group summary                             |
| summary-old           | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                    |
| <i>__readonly__</i>   | (Optional)   |
| TABLE_vrf             | (Optional)   |
| <i>vrfname</i>        | (Optional)   |
| <i>if-name</i>        | (Optional)   |
| <i>group-addr</i>     | (Optional)   |
| <i>entry-count</i>    | (Optional)   |
| <i>sourceaddress</i>  | (Optional)   |
| TABLE_group           | (Optional)   |

|                    |            |
|--------------------|------------|
| <i>group-addr</i>  | (Optional) |
| <i>group-type</i>  | (Optional) |
| <i>if-name</i>     | (Optional) |
| <i>uptime</i>      | (Optional) |
| <i>expires</i>     | (Optional) |
| <i>reporter</i>    | (Optional) |
| TABLE_source       | (Optional) |
| <i>source-addr</i> | (Optional) |
| <i>group-type</i>  | (Optional) |
| <i>translate</i>   | (Optional) |
| <i>if-name</i>     | (Optional) |
| <i>uptime</i>      | (Optional) |
| <i>expires</i>     | (Optional) |
| <i>reporter</i>    | (Optional) |
| <i>vrf-cntxt</i>   | (Optional) |
| <i>g-count</i>     | (Optional) |
| <i>sg-count</i>    | (Optional) |

**Command Mode**

- /exec



# show ip igmp interface

```
show ip igmp interface [<interface>] [brief] [detail] [vrf {<vrf-name> | <vrf-known-name> | all}] [
__readonly__] [TABLE_vrf <vrf>] [<entry-count>] [[TABLE_brief [<if-name>] [<addr>] [<querier>] [
<mc>] [<ver>]]] [TABLE_if <if-name>] [<if-status>] [<ip-sum>] [<addr>] [<querier>] [<q-ver>] [
<next-query>] [<expires>] [<mc>] [<ver>] [<host-ver>] [<qi>] [<cqi>] [<mrt>] [<cmrt>] [<sqi>]
[<csqi>] [<sqc>] [<lmmrt>] [<lmqc>] [<gt>] [<cgt>] [<qt>] [<cqt>] [<uri>] [<rv>] [<crv>]
[<rll>] [<rc>] [<il>] [<join-group-map>] [<static-group-map>] [<host-proxy>] [
<host-proxy-group-map>] [<un-solicited>] [<unsoint>] [<v1rr>] [<v2qs>] [<v2qr>] [<v2rs>] [<v2rr>]
[<v2ls>] [<v2lr>] [<v3qs>] [<v3qr>] [<v3rs>] [<v3rr>] [<v2gqdest>] [<v3gqdest>] [<cse>] [
<ple>] [<lsip>] [<scf>] [<qnq>] [<rvm>] [<qvm>] [<uit>] [<v1gdam>] [<v2gdam>] [<v3dai>]
[<ra>]]]]]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                          |
| ip                    | Display IP information                                   |
| igmp                  | Display IGMP status and configuration                    |
| interface             | Display IGMP interface related information               |
| <i>interface</i>      | (Optional) Interface name of single interface to display |
| brief                 | (Optional) Display one line status per interface         |
| vrf                   | (Optional) Display per-VRF information                   |
| <i>vrf-name</i>       | (Optional) VRF name                                      |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                |
| all                   | (Optional) Display information for all VRFs              |
| detail                | (Optional) Display detailed information                  |
| <i>__readonly__</i>   | (Optional)   |
| TABLE_vrf             | (Optional)   |
| <i>vrf</i>            | (Optional)   |
| <i>entry-count</i>    | (Optional)   |
| TABLE_brief           | (Optional)   |
| <i>if-name</i>        | (Optional)   |
| <i>addr</i>           | (Optional)   |
| <i>querier</i>        | (Optional)   |
| <i>mc</i>             | (Optional)   |

|                   |            |
|-------------------|------------|
| <i>ver</i>        | (Optional) |
| TABLE_if          | (Optional) |
| <i>if-name</i>    | (Optional) |
| <i>if-status</i>  | (Optional) |
| <i>ip-sum</i>     | (Optional) |
| <i>addr</i>       | (Optional) |
| <i>querier</i>    | (Optional) |
| <i>q-ver</i>      | (Optional) |
| <i>next-query</i> | (Optional) |
| <i>expires</i>    | (Optional) |
| <i>mc</i>         | (Optional) |
| <i>ver</i>        | (Optional) |
| <i>host-ver</i>   | (Optional) |
| <i>qi</i>         | (Optional) |
| <i>cqi</i>        | (Optional) |
| <i>mrt</i>        | (Optional) |
| <i>cmrt</i>       | (Optional) |
| <i>sqi</i>        | (Optional) |
| <i>csqi</i>       | (Optional) |
| <i>sqc</i>        | (Optional) |
| <i>lmmrt</i>      | (Optional) |
| <i>lmqc</i>       | (Optional) |
| <i>gt</i>         | (Optional) |
| <i>cgt</i>        | (Optional) |
| <i>qt</i>         | (Optional) |
| <i>cqt</i>        | (Optional) |
| <i>uri</i>        | (Optional) |
| <i>rv</i>         | (Optional) |
| <i>crv</i>        | (Optional) |

|                         |            |
|-------------------------|------------|
| <i>rll</i>              | (Optional) |
| <i>rc</i>               | (Optional) |
| <i>v1rr</i>             | (Optional) |
| <i>v2qs</i>             | (Optional) |
| <i>v2qr</i>             | (Optional) |
| <i>v2rs</i>             | (Optional) |
| <i>v2rr</i>             | (Optional) |
| <i>v2ls</i>             | (Optional) |
| <i>v2lr</i>             | (Optional) |
| <i>v3qs</i>             | (Optional) |
| <i>v3qr</i>             | (Optional) |
| <i>v3rs</i>             | (Optional) |
| <i>v3rr</i>             | (Optional) |
| <i>v2ggdest</i>         | (Optional) |
| <i>v3ggdest</i>         | (Optional) |
| <i>cse</i>              | (Optional) |
| <i>ple</i>              | (Optional) |
| <i>lsip</i>             | (Optional) |
| <i>scf</i>              | (Optional) |
| <i>qnq</i>              | (Optional) |
| <i>rvm</i>              | (Optional) |
| <i>qvm</i>              | (Optional) |
| <i>uit</i>              | (Optional) |
| <i>v1gdam</i>           | (Optional) |
| <i>v2gdam</i>           | (Optional) |
| <i>v3dai</i>            | (Optional) |
| <i>ra</i>               | (Optional) |
| <i>static-group-map</i> | (Optional) |
| <i>join-group-map</i>   | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>host-proxy-group-map</i> | (Optional) |
| <i>il</i>                   | (Optional) |
| <i>host-proxy</i>           | (Optional) |
| <i>un-solicited</i>         | (Optional) |
| <i>unsoint</i>              | (Optional) |

**Command Mode**

- /exec

## show ip igmp local-groups

```
show ip igmp local-groups [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_vrf [ <vrf-name> ] [ TABLE_if [ <if-name> ] [ TABLE_grp [ <group-addr> ] [ TABLE_src [
<source-addr> ] [ <last-reported> ] [ <local-group> ] [ <static-oif> ] [ <report-only> ] [ <host-proxy> ] ] ] ]
]]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                              |
| ip                    | Display IP information                                       |
| igmp                  | Display IGMP status and configuration                        |
| local-groups          | Display IGMP local group membership information              |
| <i>interface</i>      | (Optional) Display group membership on single interface name |
| vrf                   | (Optional) Display per-VRF information                       |
| <i>vrf-name</i>       | (Optional) VRF name  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                    |
| all                   | (Optional) Display information for all VRFs                  |
| __readonly__          | (Optional)   |
| TABLE_vrf             | (Optional)   |
| <i>vrf-name</i>       | (Optional)   |
| TABLE_if              | (Optional)   |
| <i>if-name</i>        | (Optional)   |
| TABLE_grp             | (Optional)   |
| <i>group-addr</i>     | (Optional)   |
| TABLE_src             | (Optional)   |
| <i>source-addr</i>    | (Optional)   |
| <i>last-reported</i>  | (Optional)   |
| <i>local-group</i>    | (Optional)   |
| <i>static-oif</i>     | (Optional)   |
| <i>report-only</i>    | (Optional)   |
| <i>host-proxy</i>     | (Optional)   |

**Command Mode**

- /exec

## show ip igmp policy statistics reports

```
show ip igmp policy statistics reports [ <interface> ] [ __readonly__ [ TABLE_interface [ <if> ] [
TABLE_routemap [ <name> ] [ <action> ] [ <seq_num> ] [ TABLE_cmd [ <command> ] [ <compare_count>
] [ <match_count> ] ] ] [ <total_accept_count> ] [ <total_reject_count> ] ] ]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                |
| ip                        | Display IP information                         |
| igmp                      | Show IGMP related information                  |
| policy                    | Policy related information                     |
| statistics                | Policy statistics                              |
| reports                   | IGMP reports                                   |
| <i>interface</i>          | (Optional) Interface to display statistics for |
| <i>__readonly__</i>       | (Optional)                                     |
| TABLE_interface           | (Optional)                                     |
| <i>if</i>                 | (Optional)                                     |
| TABLE_routemap            | (Optional)                                     |
| <i>name</i>               | (Optional)                                     |
| <i>action</i>             | (Optional)                                     |
| <i>seq_num</i>            | (Optional)                                     |
| TABLE_cmd                 | (Optional)                                     |
| <i>command</i>            | (Optional)                                     |
| <i>compare_count</i>      | (Optional)                                     |
| <i>match_count</i>        | (Optional)                                     |
| <i>total_accept_count</i> | (Optional)                                     |
| <i>total_reject_count</i> | (Optional)                                     |

### Command Mode

- /exec

## show ip igmp snooping

```
show ip igmp snooping [ { vlan <vlan> | bridge-domain <bidid> } ] [ __readonly__ [ <vdc> ] [ <enabled> ] [
<omf> ] [ <grepsup> ] [ <gv3repsup> ] [ <glinklocalgrpsup> ] { TABLE_vlan <vlan-id> [ <description> ] [
<snoop-on> ] [ <qa> ] [ <qv> ] [ <qi> ] [ <qlmqi> ] [ <rv> ] [ <sq> ] [ <sqr> ] [ <eht> ] [ <fl> ] [ <repsup> ]
[ <v3repsup> ] [ <vlinklocalgrpsup> ] [ <rpc> ] [ <gc> ] [ TABLE_active_ports [ <actvports> ] ] [ <lkupmode>
] [ <omf_enabled> ] [ <reportfloodenable> ] [ <reportfloodall> ] [ TABLE_intf <if-name> ] [
<leavegroupaddress> ] } ]
```

### Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information                              |
| ip                      | Display IP information                                       |
| igmp                    | Display IGMP status and configuration                        |
| snooping                | IGMP Snooping information                                    |
| vlan                    | (Optional) Display VLAN IGMP snooping membership information |
| <i>vlan</i>             | (Optional) Specify VLAN                                      |
| bridge-domain           | (Optional) Display BD IGMP snooping membership information   |
| <i>bidid</i>            | (Optional) Specify BD  |
| <i>__readonly__</i>     | (Optional)   |
| <i>vdc</i>              | (Optional)   |
| <i>enabled</i>          | (Optional)   |
| <i>omf</i>              | (Optional)   |
| <i>grepsup</i>          | (Optional)   |
| <i>gv3repsup</i>        | (Optional)   |
| <i>glinklocalgrpsup</i> | (Optional)   |
| TABLE_vlan              | (Optional)   |
| <i>vlan-id</i>          | (Optional)   |
| <i>description</i>      | (Optional) description, if any                               |
| <i>snoop-on</i>         | (Optional)   |
| <i>qa</i>               | (Optional)   |
| <i>qv</i>               | (Optional)   |
| <i>qi</i>               | (Optional)   |



|                          |            |
|--------------------------|------------|
| <i>qlmqi</i>             | (Optional) |
| <i>rv</i>                | (Optional) |
| <i>sq</i>                | (Optional) |
| <i>sqr</i>               | (Optional) |
| <i>eht</i>               | (Optional) |
| <i>fl</i>                | (Optional) |
| <i>repsup</i>            | (Optional) |
| <i>v3repsup</i>          | (Optional) |
| <i>vlinklocalgrpsup</i>  | (Optional) |
| <i>rpc</i>               | (Optional) |
| <i>gc</i>                | (Optional) |
| TABLE_active_ports       | (Optional) |
| <i>actvports</i>         | (Optional) |
| <i>lkupmode</i>          | (Optional) |
| <i>omf_enabled</i>       | (Optional) |
| <i>reportfloodenable</i> | (Optional) |
| <i>reportfloodall</i>    | (Optional) |
| TABLE_intf               | (Optional) |
| <i>if-name</i>           | (Optional) |
| <i>leavegroupaddress</i> | (Optional) |

### Command Mode

- /exec



|                           |            |
|---------------------------|------------|
| <i>expires</i>            | (Optional) |
| <i>cfs-flag</i>           | (Optional) |
| <i>native-flag</i>        | (Optional) |
| <i>delete-pending</i>     | (Optional) |
| <i>cfs-update-pending</i> | (Optional) |

**Command Mode**

- /exec

## show ip igmp snooping filter details

```
show ip igmp snooping filter [ vlan <vlan_id> ] details [ __readonly__ { TABLE_vlanid <vlan-id>
<access-group> <group-channels-limit> <igmp-min-ver> } ]
```

### Syntax Description

|                             |  |
|-----------------------------|--|
| show                        | Show running system information        |
| ip                          | Display IP information                 |
| igmp                        | Display IGMP status and configuration  |
| snooping                    | IGMP Snooping information              |
| filter                      | Shows filter policy configuration      |
| vlan                        | (Optional) Only for the specified VLAN |
| <i>vlan_id</i>              | (Optional) VLAN ID                     |
| details                     | Shows different Filter configurations  |
| <i>__readonly__</i>         | (Optional)                             |
| TABLE_vlanid                | (Optional)                             |
| <i>vlan-id</i>              | (Optional)                             |
| <i>access-group</i>         | (Optional)                             |
| <i>group-channels-limit</i> | (Optional)                             |
| <i>igmp-min-ver</i>         | (Optional)                             |

### Command Mode

- /exec

## show ip igmp snooping groups

```
show ip igmp snooping [ otv | remote ] groups [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ vlan
<vlan> | bridge-domain <bdid> ] [ detail ] [ summary ] [ __readonly__ [ TABLE_vlan [ <vlan-id> ] [ <rports>
] [ <rtrPortFlag> ] [ TABLE_port <if-name> ] [ TABLE_rtrports <rport-if-name> ] [ <raddr> ] [ TABLE_source
<source> ] [ TABLE_group <addr> [ <g-mfdm> ] [ <ver> ] [ <old-host> ] [ <raddr> ] [ <static> ] [ <dynamic>
] [ TABLE_static_ports <static-if-name> ] [ TABLE_v2_ports <v2-if-name> [ <uptime> ] [ <expires> ] [
<gq-missed> ] ] [ TABLE_star_g_ports <star-g-if-name> [ <uptime> ] [ <expires> ] ] [ <g-vpc> ] [ <rsf> ] [
<js> ] [ TABLE_source <source> [ <rsf> ] [ <s-mfdm> ] [ <src-static> ] [ <src-dynamic> ] [
TABLE_src_static_ports <src-static-if-name> ] [ TABLE_src_dynamic [ <oifs> ] <dyn-if-name> [ <src-uptime>
] [ <src-expires> ] ] [ <s-vpc> ] ] ] [ <snoop-enabled> ] [ <omf-enabled> ] [ <group-count> ] [ <s-g-count>
] [ <total_star_g_count> ] [ <total_sg_count> ] ] ]
```

### Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information                              |
| ip                 | Display IP information                                       |
| igmp               | Display IGMP status and configuration                        |
| snooping           | IGMP Snooping information                                    |
| otv                | (Optional) IGMP Snooping OTV information                     |
| remote             | (Optional) IGMP Snooping remote information                  |
| groups             | Display snooping information for group address               |
| summary            | (Optional) Display snooping group summary                    |
| <i>group</i>       | (Optional) Multicast IP address of single group to display   |
| <i>source</i>      | (Optional) Source IP address                                 |
| vlan               | (Optional) Display VLAN IGMP snooping membership information |
| <i>vlan</i>        | (Optional) Specify VLAN                                      |
| bridge-domain      | (Optional) Display BD IGMP snooping membership information   |
| <i>bdid</i>        | (Optional) Specify BD  |
| detail             | (Optional) Display detailed information for the group        |
| __readonly__       | (Optional)   |
| TABLE_vlan         | (Optional)   |
| <i>vlan-id</i>     | (Optional)   |
| <i>rports</i>      | (Optional)   |
| <i>rtrPortFlag</i> | (Optional)   |

|                           |            |
|---------------------------|------------|
| <i>snoop-enabled</i>      | (Optional) |
| <i>omf-enabled</i>        | (Optional) |
| <i>group-count</i>        | (Optional) |
| <i>s-g-count</i>          | (Optional) |
| <i>total_star_g_count</i> | (Optional) |
| <i>total_sg_count</i>     | (Optional) |
| TABLE_port                | (Optional) |
| <i>if-name</i>            | (Optional) |
| TABLE_rtrports            | (Optional) |
| <i>rport-if-name</i>      | (Optional) |
| <i>raddr</i>              | (Optional) |
| TABLE_group               | (Optional) |
| <i>addr</i>               | (Optional) |
| <i>ver</i>                | (Optional) |
| <i>raddr</i>              | (Optional) |
| TABLE_source              | (Optional) |
| <i>source</i>             | (Optional) |
| <i>rsf</i>                | (Optional) |
| <i>js</i>                 | (Optional) |
| <i>g-mfdm</i>             | (Optional) |
| <i>old-host</i>           | (Optional) |
| <i>g-vpc</i>              | (Optional) |
| <i>static</i>             | (Optional) |
| <i>dynamic</i>            | (Optional) |
| TABLE_static_ports        | (Optional) |
| <i>static-if-name</i>     | (Optional) |
| TABLE_v2_ports            | (Optional) |
| <i>v2-if-name</i>         | (Optional) |
| <i>uptime</i>             | (Optional) |

|                           |            |
|---------------------------|------------|
| <i>expires</i>            | (Optional) |
| <i>gq-missed</i>          | (Optional) |
| TABLE_star_g_ports        | (Optional) |
| <i>star-g-if-name</i>     | (Optional) |
| <i>uptime</i>             | (Optional) |
| <i>expires</i>            | (Optional) |
| TABLE_source              | (Optional) |
| <i>source</i>             | (Optional) |
| <i>srsf</i>               | (Optional) |
| <i>s-mfdm</i>             | (Optional) |
| <i>s-vpc</i>              | (Optional) |
| <i>src-static</i>         | (Optional) |
| <i>src-dynamic</i>        | (Optional) |
| TABLE_src_static_ports    | (Optional) |
| <i>src-static-if-name</i> | (Optional) |
| TABLE_src_dynamic         | (Optional) |
| <i>oifs</i>               | (Optional) |
| <i>dyn-if-name</i>        | (Optional) |
| <i>src-uptime</i>         | (Optional) |
| <i>src-expires</i>        | (Optional) |

### Command Mode

- /exec

## show ip igmp snooping lookup-mode

```
show ip igmp snooping lookup-mode [ vlan <vlan> | bridge-domain <bidid> ] [ __readonly__ [ <configured> ] [ <operational> ] [ TABLE_vlan [ <vlan-id> ] [ <lookup> ] ] ]
```

### Syntax Description

|                     |                                       |
|---------------------|---------------------------------------|
| show                | Show running system information       |
| ip                  | Display IP information                |
| igmp                | Display IGMP status and configuration |
| snooping            | IGMP Snooping information             |
| lookup-mode         | IGMP Snooping lkup mode information   |
| vlan                | (Optional) Display VLAN information   |
| <i>vlan</i>         | (Optional) Specify VLAN               |
| bridge-domain       | (Optional) Display BD information     |
| <i>bidid</i>        | (Optional) Specify BD                 |
| <i>__readonly__</i> | (Optional)                            |
| <i>configured</i>   | (Optional)                            |
| <i>operational</i>  | (Optional)                            |
| TABLE_vlan          | (Optional)                            |
| <i>vlan-id</i>      | (Optional)                            |
| <i>lookup</i>       | (Optional)                            |

### Command Mode

- /exec



## show ip igmp snooping mac-oif

```
show ip igmp snooping mac-oif [ vlan <vlan> | bridge-domain <bdid> ] [ detail ] [ __readonly__ [ <totaloif> ] ] [ TABLE_vlan [ <vlan-id> ] [ <count> ] ] [ TABLE_mac [ <mac-addr> ] [ TABLE_oif [ <oifs> ] ] ] ] ]
```

### Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                  |
| ip                  | Display IP information                           |
| igmp                | Display IGMP status and configuration            |
| snooping            | IGMP Snooping information                        |
| mac-oif             | IGMP Snooping static mac oif information         |
| vlan                | (Optional) Display VLAN information              |
| <i>vlan</i>         | (Optional) Specify VLAN                          |
| bridge-domain       | (Optional) Display BD information                |
| <i>bdid</i>         | (Optional) Specify BD                            |
| detail              | (Optional) static mac oif detail, M2RIB oif info |
| <i>__readonly__</i> | (Optional)                                       |
| <i>totaloif</i>     | (Optional)                                       |
| TABLE_vlan          | (Optional)                                       |
| <i>vlan-id</i>      | (Optional)                                       |
| <i>count</i>        | (Optional)                                       |
| TABLE_mac           | (Optional)                                       |
| <i>mac-addr</i>     | (Optional)                                       |
| TABLE_oif           | (Optional)                                       |
| <i>oifs</i>         | (Optional)                                       |

### Command Mode

- /exec

## show ip igmp snooping mrouter

```
show ip igmp snooping mrouter [ otv ] [ vlan <vlan> | bridge-domain <bdid> ] [ detail ] [ __readonly__
TABLE_vlan <vlan-id> TABLE_intf <if-name> <static> <dynamic> <vpc> <fabricpath-core-port>
<co-learned> <user-configured> <learnt-by-peer> <uptime> <expires> <internal> ]
```

### Syntax Description

|                             |  |
|-----------------------------|--|
| show                        | Show running system information                      |
| ip                          | Display IP information                               |
| igmp                        | Display IGMP status and configuration                |
| snooping                    | IGMP Snooping information                            |
| mrouter                     | Display multicast routers detected                   |
| otv                         | (Optional) IGMP Snooping OTV information             |
| vlan                        | (Optional) Display VLAN multicast router information |
| <i>vlan</i>                 | (Optional) Specify VLAN                              |
| bridge-domain               | (Optional) Display BD multicast router information   |
| <i>bdid</i>                 | (Optional) Specify BD                                |
| detail                      | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED            |
| <i>__readonly__</i>         | (Optional)   |
| TABLE_vlan                  | (Optional)   |
| <i>vlan-id</i>              | (Optional)   |
| TABLE_intf                  | (Optional)   |
| <i>if-name</i>              | (Optional)   |
| <i>uptime</i>               | (Optional)   |
| <i>expires</i>              | (Optional)   |
| <i>static</i>               | (Optional)   |
| <i>dynamic</i>              | (Optional)   |
| <i>internal</i>             | (Optional)   |
| <i>vpc</i>                  | (Optional)   |
| <i>fabricpath-core-port</i> | (Optional)   |
| <i>co-learned</i>           | (Optional)   |

|                        |            |
|------------------------|------------|
| <i>user-configured</i> | (Optional) |
| <i>learnt-by-peer</i>  | (Optional) |

**Command Mode**

- /exec

# show ip igmp snooping pw vlan brief

show ip igmp snooping pw vlan brief [ \_\_readonly\_\_ <vlan-id> ]

## Syntax Description

|                |                                       |
|----------------|---------------------------------------|
| show           | Show running system information       |
| ip             | Display IP information                |
| igmp           | Display IGMP status and configuration |
| snooping       | IGMP Snooping information             |
| pw             | IGMP Snooping PW information          |
| vlan           | Display VLAN/BD information           |
| brief          | Brief output                          |
| __readonly__   | (Optional)                            |
| <i>vlan-id</i> | (Optional)                            |

## Command Mode

- /exec

## show ip igmp snooping querier

```
show ip igmp snooping querier [ vlan <vlan> | bridge-domain <bdid> ] [ detail ] [ __readonly__ [ TABLE_vlan
<vlan-id> <qa> <qv> [ <expires> ] <qiod> <qname> <int> [ <last_member_query_count> ] [
<config_last_member_query_count> ] [ <snooping_version> ] [ <config_qv> ] [ <robust> ] [ <config_robust>
] [ <startup_query_count> ] [ <config_startup_query_count> ] [ <startup_query_interval> ] [
<config_startup_query_interval> ] [ <mbr_query_interval> ] [ <config_mbr_query_interval> ] [
<snooping_query_intvl> ] [ <config_snooping_query_intvl> ] [ <gquery_response_time> ] [
<config_gquery_response_time> ] [ <querier_timeout> ] [ <querier_timeout_flag> ] ] ]
```

### Syntax Description

|                                       |   |
|---------------------------------------|---|
| show                                  | Show running system information                           |
| ip                                    | Display IP information                                    |
| igmp                                  | Display IGMP status and configuration                     |
| snooping                              | IGMP Snooping information                                 |
| querier                               | Display snooping querier information                      |
| vlan                                  | (Optional) Display VLAN IGMP snooping querier information |
| <i>vlan</i>                           | (Optional) Specify VLAN                                   |
| bridge-domain                         | (Optional) Display BD IGMP snooping querier information   |
| <i>bdid</i>                           | (Optional) Specify BD                                     |
| detail                                | (Optional) Display detailed information                   |
| <i>__readonly__</i>                   | (Optional)  |
| TABLE_vlan                            | (Optional)  |
| <i>vlan-id</i>                        | (Optional)  |
| <i>qa</i>                             | (Optional)  |
| <i>expires</i>                        | (Optional)  |
| <i>qv</i>                             | (Optional)  |
| <i>qiod</i>                           | (Optional)  |
| <i>qname</i>                          | (Optional)  |
| <i>int</i>                            | (Optional)  |
| <i>last_member_query_count</i>        | (Optional)  |
| <i>config_last_member_query_count</i> | (Optional)  |
| <i>snooping_version</i>               | (Optional)  |

|                                      |            |
|--------------------------------------|------------|
| <i>config_qv</i>                     | (Optional) |
| <i>robust</i>                        | (Optional) |
| <i>config_robust</i>                 | (Optional) |
| <i>startup_query_count</i>           | (Optional) |
| <i>config_startup_query_count</i>    | (Optional) |
| <i>startup_query_interval</i>        | (Optional) |
| <i>config_startup_query_interval</i> | (Optional) |
| <i>mbr_query_interval</i>            | (Optional) |
| <i>config_mbr_query_interval</i>     | (Optional) |
| <i>snooping_query_intvl</i>          | (Optional) |
| <i>config_snooping_query_intvl</i>   | (Optional) |
| <i>gquery_response_time</i>          | (Optional) |
| <i>config_gquery_response_time</i>   | (Optional) |
| <i>querier_timeout</i>               | (Optional) |
| <i>querier_timeout_flag</i>          | (Optional) |

**Command Mode**

- /exec

# show ip igmp snooping report statistics

```
show ip igmp snooping { report-policy | access-group } statistics [ vlan <vlan> ] [ __readonly__ [
TABLE_vlanid { <vlan-id> <rpm-type> <policy-name> } ] ]
```

## Syntax Description

|                    |   |
|--------------------|---|
| show               | Show running system information                                     |
| ip                 | Display IP information  |
| igmp               | Display IGMP status and configuration                               |
| snooping           | IGMP Snooping information   |
| report-policy      | IGMP Report Policy  |
| access-group       | IGMP access-group   |
| statistics         | Policy statistics   |
| vlan               | (Optional) Display VLAN IGMP snooping policy statistics information |
| <i>vlan</i>        | (Optional) Specify VLAN   |
| __readonly__       | (Optional)  |
| TABLE_vlanid       | (Optional)  |
| <i>vlan-id</i>     | (Optional)  |
| <i>rpm-type</i>    | (Optional)  |
| <i>policy-name</i> | (Optional)  |

## Command Mode

- /exec

## show ip igmp snooping statistics

```
show ip igmp snooping statistics [ global | vlan <vlan> | bridge-domain <bdid> ] [ __readonly__ [ <pr> ] [
<inv_pkt> ] [ <pnv> ] [ <loopbkpkt> ] [ <mrdloopbk> ] [ <pf> ] [ <vpcdrqs> ] [ <vpcdrqr> ] [ <vpcdrqf> ] [
<vpcdrus> ] [ <vpcdrur> ] [ <vpcdruf> ] [ <vpccfssf> ] [ <vpccfsrc> ] [ <vpccfsrr> ] [ <vpccfsrf> ] [ <vpccfsrpf> ]
] [ <vpccfsurl> ] [ <vpccfsurlr> ] [ <vpccfsurlf> ] [ <vpccfsrsl> ] [ <vpccfsrslr> ] [ <vpccfsrslf> ] [ <inv_iod> ]
] [ <stptcnr> ] [ <imapif> ] [ <mfreqr> ] [ <mfcmps> ] [ <mfdgcmps> ] [ <bufsnt> ] [ <bufackr> ] [
<vpcmismatch> ] [ { TABLE_vlan [ <vlan-id> ] [ <ut> ] [ <vpr> ] [ <v1rr> ] [ <v2rr> ] [ <v3rr> ] [ <v1qr> ]
] [ <v2qr> ] [ <v3qr> ] [ <v2lr> ] [ <phr> ] [ <irr> ] [ <iqr> ] [ <v1rs> ] [ <v2rs> ] [ <v2ls> ] [ <v3gs> ] [
<vmr> ] [ <upr> ] [ <qo> ] [ <v2ro> ] [ <v2lo> ] [ <v3ro> ] [ <vpsr> ] [ <str> ] [ <mps> ] [ <mpr> ] [ <mpe> ]
] [ <cps> ] [ <cpr> ] [ <cpe> ] [ <repflooded> ] [ <repfwded> ] } ] ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information         |
| ip                  | Display IP information                  |
| igmp                | Display IGMP status and configuration   |
| snooping            | IGMP Snooping information               |
| statistics          | Display packet/error counter statistics |
| global              | (Optional) Display global statistics    |
| vlan                | (Optional) Display VLAN statistics      |
| <i>vlan</i>         | (Optional) Specify VLAN                 |
| bridge-domain       | (Optional) Display BD statistics        |
| <i>bdid</i>         | (Optional) Specify BD                   |
| <i>__readonly__</i> | (Optional)                              |
| <i>pr</i>           | (Optional)                              |
| <i>inv_pkt</i>      | (Optional)                              |
| <i>pnv</i>          | (Optional)                              |
| <i>loopbkpkt</i>    | (Optional)                              |
| <i>mrdloopbk</i>    | (Optional)                              |
| <i>pf</i>           | (Optional)                              |
| <i>vpcdrqs</i>      | (Optional)                              |
| <i>vpcdrqr</i>      | (Optional)                              |
| <i>vpcdrqf</i>      | (Optional)                              |



|                    |            |
|--------------------|------------|
| <i>vpcdrus</i>     | (Optional) |
| <i>vpcdrur</i>     | (Optional) |
| <i>vpcdruf</i>     | (Optional) |
| <i>vpccfssf</i>    | (Optional) |
| <i>vpccfsrs</i>    | (Optional) |
| <i>vpccfsrr</i>    | (Optional) |
| <i>vpccfsrf</i>    | (Optional) |
| <i>vpccfsrfp</i>   | (Optional) |
| <i>vpccfsurls</i>  | (Optional) |
| <i>vpccfsurlr</i>  | (Optional) |
| <i>vpccfsurlf</i>  | (Optional) |
| <i>vpccfsrsls</i>  | (Optional) |
| <i>vpccfsrlr</i>   | (Optional) |
| <i>vpccfsrlf</i>   | (Optional) |
| <i>inv_iod</i>     | (Optional) |
| <i>stptcnr</i>     | (Optional) |
| <i>imapif</i>      | (Optional) |
| <i>mfreqr</i>      | (Optional) |
| <i>mfcmps</i>      | (Optional) |
| <i>mfdgcmps</i>    | (Optional) |
| <i>bufsnt</i>      | (Optional) |
| <i>bufackr</i>     | (Optional) |
| <i>vpcmismatch</i> | (Optional) |
| TABLE_vlan         | (Optional) |
| <i>vlan-id</i>     | (Optional) |
| <i>ut</i>          | (Optional) |
| <i>vpr</i>         | (Optional) |
| <i>v1rr</i>        | (Optional) |
| <i>v2rr</i>        | (Optional) |

|                   |            |
|-------------------|------------|
| <i>v3rr</i>       | (Optional) |
| <i>v1qr</i>       | (Optional) |
| <i>v2qr</i>       | (Optional) |
| <i>v3qr</i>       | (Optional) |
| <i>v2lr</i>       | (Optional) |
| <i>phr</i>        | (Optional) |
| <i>irr</i>        | (Optional) |
| <i>iqr</i>        | (Optional) |
| <i>v1rs</i>       | (Optional) |
| <i>v2rs</i>       | (Optional) |
| <i>v2ls</i>       | (Optional) |
| <i>v3gs</i>       | (Optional) |
| <i>vmr</i>        | (Optional) |
| <i>upr</i>        | (Optional) |
| <i>qo</i>         | (Optional) |
| <i>v2ro</i>       | (Optional) |
| <i>v2lo</i>       | (Optional) |
| <i>v3ro</i>       | (Optional) |
| <i>vpsr</i>       | (Optional) |
| <i>str</i>        | (Optional) |
| <i>cps</i>        | (Optional) |
| <i>cpr</i>        | (Optional) |
| <i>cpe</i>        | (Optional) |
| <i>mps</i>        | (Optional) |
| <i>mpr</i>        | (Optional) |
| <i>mpe</i>        | (Optional) |
| <i>repflooded</i> | (Optional) |
| <i>repfwded</i>   | (Optional) |

**Command Mode**

- /exec

# show ip igmp vrf all

```
show ip igmp vrf all [ __readonly__ { TABLE_vrfname <vrf-name> <vrf-id> <instance> <work-in-txlist> }
{ TABLE_vrfid <vrf-name-i> <vrf-id-i> <instance-i> <work-in-txlist-i> } ]
```

## Syntax Description

|                         |                                       |
|-------------------------|---------------------------------------|
| show                    | Show running system information       |
| ip                      | Display IP information                |
| igmp                    | Display IGMP status and configuration |
| vrf                     | Display per-VRF information           |
| all                     | Display information for all VRFs      |
| __readonly__            | (Optional)                            |
| TABLE_vrfname           | (Optional)                            |
| <i>vrf-name</i>         | (Optional)                            |
| <i>vrf-id</i>           | (Optional)                            |
| <i>instance</i>         | (Optional)                            |
| <i>work-in-txlist</i>   | (Optional)                            |
| TABLE_vrfid             | (Optional)                            |
| <i>vrf-name-i</i>       | (Optional)                            |
| <i>vrf-id-i</i>         | (Optional)                            |
| <i>instance-i</i>       | (Optional)                            |
| <i>work-in-txlist-i</i> | (Optional)                            |

## Command Mode

- /exec

# show ip interface

```
show ip interface { { { brief [ include-secondary ] } | [ <interface> ] | [ <ip-addr> ] } [ operational ] [ vaddr ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_intf [ <vrf-name-out> ] [
<intf-name> ] [ <proto-state> ] [ <link-state> ] [ <admin-state> ] [ <iod> ] [ <first_unnum_iod> ] [
TABLE_unnuminf <unnum-child-inf> ] [ <prefix> ] [ <subnet> ] [ <masklen> ] [ TABLE_secondary_address
<prefix1> <subnet1> <masklen1> ] [ <num-addr> ] [ <vaddr-client> ] [ <vaddr-prefix> ] [ <vaddr-subnet>
] [ <vaddr-masklen> ] [ <num-vaddr> ] [ <unnum-intf> ] [ <ip-disabled> ] [ <bcast-addr> ] [ <maddr> ] + [
<num-maddr> ] [ <mtu> ] [ <pref> ] [ <tag> ] [ <proxy-arp> ] [ <lcl-proxy-arp> ] [ <mrouting> ] [
<icmp-redirect> ] [ <dir-bcast> ] [ <ip-forwarding> ] [ <ip-unreach> ] [ <port-unreach> ] [ <urpf-mode> ] [
<ip-ls-type> ] [ <urpf-acl> ] [ <pbr-in> ] [ <pbr-out> ] [ <acl-in> ] [ <acl-out> ] [ <stats-last-reset> ] [
<upkt-sent> ] [ <upkt-recv> ] [ <upkt-fwd> ] [ <upkt-orig> ] [ <upkt-consumed> ] [ <ubyte-sent> ] [
<ubyte-recv> ] [ <ubyte-fwd> ] [ <ubyte-orig> ] [ <ubyte-consumed> ] [ <mpkt-sent> ] [ <mpkt-recv> ] [
<mpkt-fwd> ] [ <mpkt-orig> ] [ <mpkt-consumed> ] [ <mbyte-sent> ] [ <mbyte-recv> ] [ <mbyte-fwd> ] [
<mbyte-orig> ] [ <mbyte-consumed> ] [ <bpkt-sent> ] [ <bpkt-recv> ] [ <bpkt-fwd> ] [ <bpkt-orig> ] [
<bpkt-consumed> ] [ <bbyte-sent> ] [ <bbyte-recv> ] [ <bbyte-fwd> ] [ <bbyte-orig> ] [ <bbyte-consumed>
] [ <lpkt-sent> ] [ <lpkt-recv> ] [ <lpkt-fwd> ] [ <lpkt-orig> ] [ <lpkt-consumed> ] [ <lbyte-sent> ] [
<lbyte-recv> ] [ <lbyte-fwd> ] [ <lbyte-orig> ] [ <lbyte-consumed> ] [ <wccp-outbound> ] [ <wccp-inbound>
] [ <wccp-exclude> ] ] ] ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                                      |
| ip                    | Display IP information   |
| interface             | Display IP related interface information                             |
| brief                 | Display summary of IP interface status and configuration             |
| include-secondary     | (Optional) Display summary of all IP addresses                       |
| operational           | (Optional) Display only interfaces that are administratively enabled |
| <i>interface</i>      | (Optional) Interface name to display                                 |
| <i>ip-addr</i>        | (Optional) Display interface for local IP address                    |
| vrf                   | (Optional) Display per-VRF information                               |
| <i>vrf-name</i>       | (Optional) VRF name  |
| <i>vrf-known-name</i> | (Optional) Known VRF name  |
| all                   | (Optional) Display all VRFs  |
| vaddr                 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                            |
| __readonly__          | (Optional)   |
| <i>vrf-name-out</i>   | (Optional)   |
| TABLE_intf            | (Optional)   |

|                         |            |
|-------------------------|------------|
| <i>intf-name</i>        | (Optional) |
| <i>iod</i>              | (Optional) |
| <i>first_unnum_iod</i>  | (Optional) |
| <i>prefix</i>           | (Optional) |
| <i>proto-state</i>      | (Optional) |
| <i>link-state</i>       | (Optional) |
| <i>admin-state</i>      | (Optional) |
| <i>subnet</i>           | (Optional) |
| <i>masklen</i>          | (Optional) |
| TABLE_unnuminf          | (Optional) |
| <i>unnum-child-inf</i>  | (Optional) |
| TABLE_secondary_address | (Optional) |
| <i>prefix1</i>          | (Optional) |
| <i>subnet1</i>          | (Optional) |
| <i>masklen1</i>         | (Optional) |
| <i>num-addr</i>         | (Optional) |
| <i>vaddr-client</i>     | (Optional) |
| <i>vaddr-prefix</i>     | (Optional) |
| <i>vaddr-subnet</i>     | (Optional) |
| <i>vaddr-masklen</i>    | (Optional) |
| <i>num-vaddr</i>        | (Optional) |
| <i>unnum-intf</i>       | (Optional) |
| <i>ip-disabled</i>      | (Optional) |
| <i>bcast-addr</i>       | (Optional) |
| <i>maddr</i>            | (Optional) |
| <i>num-maddr</i>        | (Optional) |
| <i>mtu</i>              | (Optional) |
| <i>pref</i>             | (Optional) |
| <i>tag</i>              | (Optional) |

|                         |            |
|-------------------------|------------|
| <i>proxy-arp</i>        | (Optional) |
| <i>lcl-proxy-arp</i>    | (Optional) |
| <i>mrouting</i>         | (Optional) |
| <i>icmp-redirect</i>    | (Optional) |
| <i>dir-bcast</i>        | (Optional) |
| <i>ip-forwarding</i>    | (Optional) |
| <i>ip-unreach</i>       | (Optional) |
| <i>port-unreach</i>     | (Optional) |
| <i>urpf-mode</i>        | (Optional) |
| <i>ip-ls-type</i>       | (Optional) |
| <i>urpf-acl</i>         | (Optional) |
| <i>pbr-in</i>           | (Optional) |
| <i>pbr-out</i>          | (Optional) |
| <i>acl-in</i>           | (Optional) |
| <i>acl-out</i>          | (Optional) |
| <i>stats-last-reset</i> | (Optional) |
| <i>upkt-sent</i>        | (Optional) |
| <i>upkt-recv</i>        | (Optional) |
| <i>upkt-fwd</i>         | (Optional) |
| <i>upkt-orig</i>        | (Optional) |
| <i>upkt-consumed</i>    | (Optional) |
| <i>ubyte-sent</i>       | (Optional) |
| <i>ubyte-recv</i>       | (Optional) |
| <i>ubyte-fwd</i>        | (Optional) |
| <i>ubyte-orig</i>       | (Optional) |
| <i>ubyte-consumed</i>   | (Optional) |
| <i>mpkt-sent</i>        | (Optional) |
| <i>mpkt-recv</i>        | (Optional) |
| <i>mpkt-fwd</i>         | (Optional) |

|                       |            |
|-----------------------|------------|
| <i>mpkt-orig</i>      | (Optional) |
| <i>mpkt-consumed</i>  | (Optional) |
| <i>mbyte-sent</i>     | (Optional) |
| <i>mbyte-recv</i>     | (Optional) |
| <i>mbyte-fwd</i>      | (Optional) |
| <i>mbyte-orig</i>     | (Optional) |
| <i>mbyte-consumed</i> | (Optional) |
| <i>bpkt-sent</i>      | (Optional) |
| <i>bpkt-recv</i>      | (Optional) |
| <i>bpkt-fwd</i>       | (Optional) |
| <i>bpkt-orig</i>      | (Optional) |
| <i>bpkt-consumed</i>  | (Optional) |
| <i>bbyte-sent</i>     | (Optional) |
| <i>bbyte-recv</i>     | (Optional) |
| <i>bbyte-fwd</i>      | (Optional) |
| <i>bbyte-orig</i>     | (Optional) |
| <i>bbyte-consumed</i> | (Optional) |
| <i>lpkt-sent</i>      | (Optional) |
| <i>lpkt-recv</i>      | (Optional) |
| <i>lpkt-fwd</i>       | (Optional) |
| <i>lpkt-orig</i>      | (Optional) |
| <i>lpkt-consumed</i>  | (Optional) |
| <i>lbyte-sent</i>     | (Optional) |
| <i>lbyte-recv</i>     | (Optional) |
| <i>lbyte-fwd</i>      | (Optional) |
| <i>lbyte-orig</i>     | (Optional) |
| <i>lbyte-consumed</i> | (Optional) |
| <i>wccp-outbound</i>  | (Optional) |
| <i>wccp-inbound</i>   | (Optional) |



|                     |            |
|---------------------|------------|
| <i>wccp-exclude</i> | (Optional) |
|---------------------|------------|

**Command Mode**

- /exec

# show ip lisp

```
show { ip | ipv6 } lisp [ database ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                  |
| ip                    | Display IP information                           |
| ipv6                  | Display IPv6 information                         |
| lisp                  | LISP show commands                               |
| database              | (Optional) Show EID-prefixes configured for site |
| vrf                   | (Optional) Display information for vrf           |
| <i>vrf-name</i>       | (Optional) VRF name                              |
| <i>vrf-known-name</i> | (Optional) Known VRF name                        |

## Command Mode

- /exec

# show ip lisp data-cache

```
show ip lisp data-cache [ <eid> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                    |
| ip                    | Display IP information                             |
| lisp                  | LISP show commands                                 |
| data-cache            | Display EID-to-RLOC data cache mapping in this ITR |
| <i>eid</i>            | (Optional) Display mapping for IP destination EID  |
| vrf                   | (Optional) Display per-VRF information             |
| <i>vrf-name</i>       | (Optional) VRF name                                |
| <i>vrf-known-name</i> | (Optional) Known VRF name                          |

## Command Mode

- /exec

# show ip lisp locator-hash

```
{ { show ip lisp locator-hash { <eid-prefix> | { <source-eid> <dest-eid> } } [ vrf { <vrf-name> | <vrf-known-name> } ] } | { show ipv6 lisp locator-hash { <eid-prefix6> | { <source-eid6> <dest-eid6> } } [ vrf { <vrf-name> | <vrf-known-name> } ] } }
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information               |
| ip                    | Display IP information                        |
| ipv6                  | Display IPv6 information                      |
| lisp                  | LISP show commands                            |
| locator-hash          | Display source and dest locators for EID pair |
| <i>source-eid</i>     | Source IPv4 endpoint identifier (EID)         |
| <i>dest-eid</i>       | Destination IPv4 endpoint identifier (EID)    |
| <i>eid-prefix</i>     | Display exact match for IP EID-prefix entry   |
| vrf                   | (Optional) Display information for vrf        |
| <i>vrf-name</i>       | (Optional) VRF name                           |
| <i>vrf-known-name</i> | (Optional) Known VRF name                     |

## Command Mode

- /exec

## show ip lisp map-cache

```
{ { show ip lisp map-cache [ <eid> | <eid-prefix> | detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] } | {
show ipv6 lisp map-cache [ <eid6> | <eid-prefix6> | detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] } }
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                        |
| ip                    | Display IP information                                 |
| ipv6                  | Display IPv6 information                               |
| lisp                  | LISP show commands                                     |
| map-cache             | Display EID-to-RLOC cache mapping in this ITR          |
| vrf                   | (Optional) Display information for vrf                 |
| <i>vrf-name</i>       | (Optional) VRF name                                    |
| <i>vrf-known-name</i> | (Optional) Known VRF name                              |
| <i>eid</i>            | (Optional) Display mapping for IP destination EID      |
| <i>eid-prefix</i>     | (Optional) Display exact match for IP EID-prefix entry |
| detail                | (Optional) Display entire map-cache in long format     |

### Command Mode

- /exec

# show ip lisp statistics

```
show { ip | ipv6 } lisp statistics [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                   |
| ip                    | Display IP information                            |
| ipv6                  | Display IPv6 information                          |
| lisp                  | LISP show commands                                |
| statistics            | Display global LISP statistics                    |
| vrf                   | (Optional) Display statistics information for vrf |
| <i>vrf-name</i>       | (Optional) VRF name                               |
| <i>vrf-known-name</i> | (Optional) Known VRF name                         |

## Command Mode

- /exec

# show ip lisp translate-cache

```
{ show ip lisp translate-cache [ <nrEID> ] } | { show ipv6 lisp translate-cache [ <nrEID6> ] }
```

## Syntax Description

|                 |  |
|-----------------|--|
| show            | Show running system information                    |
| ip              | Display IP information                             |
| ipv6            | Display IPv6 information                           |
| lisp            | LISP show commands                                 |
| translate-cache | Display configured translation cache               |
| <i>nrEID</i>    | (Optional) IPv4 address of inside non-routable EID |
| <i>nrEID6</i>   | (Optional) IPv6 address of inside non-routable EID |

## Command Mode

- /exec

## show ip load-sharing

```
show ip load-sharing [ __readonly__ { <univer-id-ran-seed> [ <l3-msg-load> ] [ <l34-msg-load> ] [
<dest-addr-load> ] [ <src-dst-ip-gre> ] [ <bad-load> ] [ <gre-outer-hash> ] [ <concatenation> ] [ <rotate> ] [
<src-dst-ip-gtpu> ] } ]
```

### Syntax Description

|                           |                                 |
|---------------------------|---------------------------------|
| show                      | Show running system information |
| ip                        | Configure IP features           |
| load-sharing              | Display global loadbalance info |
| <i>__readonly__</i>       | (Optional)                      |
| <i>univer-id-ran-seed</i> | (Optional)                      |
| <i>l3-msg-load</i>        | (Optional)                      |
| <i>l34-msg-load</i>       | (Optional)                      |
| <i>dest-addr-load</i>     | (Optional)                      |
| <i>src-dst-ip-gre</i>     | (Optional)                      |
| <i>bad-load</i>           | (Optional)                      |
| <i>gre-outer-hash</i>     | (Optional)                      |
| <i>concatenation</i>      | (Optional)                      |
| <i>rotate</i>             | (Optional)                      |
| <i>src-dst-ip-gtpu</i>    | (Optional)                      |

### Command Mode

- /exec



# show ip local policy

```
show ip local policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_pbr [ <interface> ] [ <rmap> ] [ <status> ] [ <vrf_name> ] } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| local                 | IP local options                            |
| policy                | Policy routing                              |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| __readonly__          | (Optional)                                  |
| TABLE_pbr             | (Optional)                                  |
| <i>interface</i>      | (Optional)                                  |
| <i>rmap</i>           | (Optional)                                  |
| <i>status</i>         | (Optional)                                  |
| <i>vrf_name</i>       | (Optional)                                  |

## Command Mode

- /exec

# show ip logging

```
show ip logging [ hash ] [ __readonly__ ]
```

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information           |
| ip           | Display IP information                    |
| logging      | Display IP policy logging table           |
| hash         | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| __readonly__ | (Optional)                                |

## Command Mode

- /exec

# show ip mbgp

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast | mdt } |
all } ] } } [ <ip-addr> [ <ip-mask> [ longer-prefixes ] ] | <ip-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name>
| <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                                    |
| ip                    | Display IP information   |
| bgp                   | Display BGP status and configuration                               |
| mbgp                  | Display MBGP status and configuration                              |
| vrf                   | (Optional) Virtual Router Context                                  |
| <i>vrf-name</i>       | (Optional) VRF name  |
| <i>vrf-known-name</i> | (Optional) Known VRF name  |
| <i>ip-addr</i>        | (Optional) Display one particular network from the BRIB in detail  |
| <i>ip-mask</i>        | (Optional) Mask for one particular prefix in the BRIB              |
| <i>ip-prefix</i>      | (Optional) Display one particular prefix from the BRIB in detail   |
| longer-prefixes       | (Optional) Display route and more specific routes                  |
| ipv4                  | (Optional) Display BGP information for IPv4 address family         |
| unicast               | (Optional) Display BGP information for unicast address family      |
| multicast             | (Optional) Display BGP information for multicast address family    |
| mdt                   | (Optional) Display BGP information for multicast distribution tree |
| all                   | (Optional) Display BGP information for all address families        |

## Command Mode

- /exec

## show ip mbgp

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } { route-map { <rmap-name> | <rmap-name> } | filter-list { <fltrlist-name> | <test_pol_name> } | {
community-list { <commlist-name> | <test_pol_name> } | extcommunity-list { <extcommlist-name> |
<test_pol_name> } } [ exact-match ] } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] }
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                                 |
| ip                      | Display IP information  |
| bgp                     | Display BGP status and configuration                            |
| mbgp                    | Display MBGP status and configuration                           |
| vrf                     | (Optional) Virtual Router Context                               |
| <i>vrf-name</i>         | (Optional) VRF name   |
| <i>vrf-known-name</i>   | (Optional) Known VRF name                                       |
| route-map               | Display routes matching the route-map                           |
| <i>rmap-name</i>        | Route-map name  |
| <i>rmap-name</i>        | Known route-map name  |
| filter-list             | Display routes matching the filter-list                         |
| <i>fltrlist-name</i>    | Name of filter-list   |
| community-list          | Display routes matching the community-list                      |
| extcommunity-list       | Display routes matching the extcommunity-list                   |
| <i>commlist-name</i>    | Name of community-list  |
| <i>extcommlist-name</i> | Name of extcommunity-list                                       |
| <i>test_pol_name</i>    | An existing test-list policy                                    |
| ipv4                    | (Optional) Display BGP information for IPv4 address family      |
| unicast                 | (Optional) Display BGP information for unicast address family   |
| multicast               | (Optional) Display BGP information for multicast address family |
| all                     | (Optional) Display BGP information for all address families     |
| exact-match             | (Optional) Exact match of the communities                       |

**Command Mode**

- /exec

## show ip mbgp community

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } community { <regexp-str> | { { <comm-id> | <wellknown-id> } + [ exact-match ] } } [ vrf { <vrf-name>
| <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                                 |
| ip                    | Display IP information  |
| bgp                   | Display BGP status and configuration                            |
| mbgp                  | Display MBGP status and configuration                           |
| ipv4                  | (Optional) Display BGP information for IPv4 address family      |
| unicast               | (Optional) Display BGP information for unicast address family   |
| multicast             | (Optional) Display BGP information for multicast address family |
| vrf                   | (Optional) Virtual Router Context                               |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                       |
| all                   | (Optional) Display BGP information for all address families     |
| community             | Display routes matching the BGP communities                     |
| <i>regexp-str</i>     | Regular expression to match the communities                     |
| <i>comm-id</i>        | BGP community value   |
| <i>wellknown-id</i>   | BGP wellknown community   |
| exact-match           | (Optional) Exact match of the communities                       |

### Command Mode

- /exec

# show ip mbgp dampening

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } dampening { dampened-paths [ regexp <regexp-str> ] | flap-statistics | parameters | history-paths [ regexp
<regexp-str> ] } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                                   |
| ip                    | Display IP information  |
| bgp                   | Display BGP status and configuration                              |
| mbgp                  | Display MBGP status and configuration                             |
| vrf                   | (Optional) Virtual Router Context                                 |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name   |
| dampening             | Display dampening info  |
| dampened-paths        | Display all dampened paths  |
| flap-statistics       | Display flap statistics for routes                                |
| parameters            | Display dampening parameters                                      |
| history-paths         | Display all history paths   |
| ipv4                  | (Optional) Display BGP information for IPv4 address family        |
| unicast               | (Optional) Display BGP information for unicast address family     |
| multicast             | (Optional) Display BGP information for multicast address family   |
| all                   | (Optional) Display BGP information for all address families       |
| regexp                | (Optional) Display routes matching the AS path regular expression |
| <i>regexp-str</i>     | (Optional) Regular expression to match the AS paths               |

## Command Mode

- /exec

## show ip mbgp extcommunity

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { ipv4 { unicast | multicast } | all }
] } } extcommunity { <regexp-str> | { { 4byteas-generic { transitive <ext-comm-gen-trans> | non-transitive
<ext-comm-gen-nontrans> } } + [ exact-match ] } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] }
```

### Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information                                 |
| ip                           | Display IP information  |
| bgp                          | Display BGP status and configuration                            |
| mbgp                         | Display MBGP status and configuration                           |
| ipv4                         | (Optional) Display BGP information for IPv4 address family      |
| unicast                      | (Optional) Display BGP information for unicast address family   |
| multicast                    | (Optional) Display BGP information for multicast address family |
| vrf                          | (Optional) Virtual Router Context                               |
| <i>vrf-name</i>              | (Optional) VRF name   |
| <i>vrf-known-name</i>        | (Optional) Known VRF name                                       |
| all                          | (Optional) Display BGP information for all address families     |
| extcommunity                 | Display routes matching the BGP extcommunities                  |
| 4byteas-generic              | Generic extended community                                      |
| transitive                   | Transitive extcommunity   |
| non-transitive               | Non-Transitive extcommunity                                     |
| <i>regexp-str</i>            | Regular expression to match the extcommunities                  |
| <i>ext-comm-gen-trans</i>    | Extcommunity number aa4:nn format                               |
| <i>ext-comm-gen-nontrans</i> | Extcommunity number aa4:nn format                               |
| exact-match                  | (Optional) Exact match of the extcommunities                    |

### Command Mode

- /exec



## show ip mbgp flap-statistics

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } flap-statistics [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                                 |
| ip                    | Display IP information  |
| bgp                   | Display BGP status and configuration                            |
| mbgp                  | Display MBGP status and configuration                           |
| vrf                   | (Optional) Virtual Router Context                               |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                       |
| flap-statistics       | Display route flap statistics                                   |
| <i>ip-prefix</i>      | (Optional) Display flap statistics for one prefix               |
| <i>ip-addr</i>        | (Optional) Display flap statistics for one network              |
| <i>ip-mask</i>        | (Optional) Network mask   |
| ipv4                  | (Optional) Display BGP information for IPv4 address family      |
| unicast               | (Optional) Display BGP information for unicast address family   |
| multicast             | (Optional) Display BGP information for multicast address family |
| all                   | (Optional) Display BGP information for all address families     |

### Command Mode

- /exec

## show ip mbgp neighbors

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } neighbors { [ { <neighbor-id> | <ipv6-neighbor-id> } [ routes [ advertised | received | dampened ] |
advertised-routes | received-routes | paths | flap-statistics ] ] | <neighbor-prefix-id> | <ipv6-neighbor-prefix-id>
} [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] }
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information                                       |
| ip                        | Display IP information  |
| bgp                       | Display BGP status and configuration                                  |
| mbgp                      | Display MBGP status and configuration                                 |
| vrf                       | (Optional) Virtual Router Context                                     |
| <i>vrf-name</i>           | (Optional) VRF name   |
| <i>vrf-known-name</i>     | (Optional) Known VRF name   |
| neighbors                 | Display all configured BGP neighbors                                  |
| <i>neighbor-id</i>        | (Optional) Display one particular BGP neighbor                        |
| <i>neighbor-prefix-id</i> | Display details for a prefix peering                                  |
| ipv4                      | (Optional) Display BGP information for IPv4 address family            |
| unicast                   | (Optional) Display BGP information for unicast address family         |
| multicast                 | (Optional) Display BGP information for multicast address family       |
| all                       | (Optional) Display BGP information for all address families           |
| routes                    | (Optional) Display all routes advertised/received to/from peer        |
| advertised                | (Optional) Display all routes advertised to this peer                 |
| received                  | (Optional) Display all routes received from this peer                 |
| dampened                  | (Optional) Display all dampened routes received from this peer        |
| advertised-routes         | (Optional) Display all the routes advertised to this peer             |
| received-routes           | (Optional) Display all the routes received from this peer             |
| flap-statistics           | (Optional) Display flap statistics for routes received from this peer |
| paths                     | (Optional) Display AS paths learned from this peer                    |

### Command Mode

- /exec

## show ip mbgp nexthop-database

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } nexthop-database [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                                 |
| ip                    | Display IP information  |
| bgp                   | Display BGP status and configuration                            |
| mbgp                  | Display MBGP status and configuration                           |
| vrf                   | (Optional) Virtual Router Context                               |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                       |
| nexthop-database      | Display nexthop database  |
| ipv4                  | (Optional) Display BGP information for IPv4 address family      |
| unicast               | (Optional) Display BGP information for unicast address family   |
| multicast             | (Optional) Display BGP information for multicast address family |
| all                   | (Optional) Display BGP information for all address families     |

### Command Mode

- /exec

# show ip mbgp nexthop

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ ipv4 { unicast | multicast } ] } nexthop
<ipnexthop> [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                                 |
| ip                    | Display IP information  |
| bgp                   | Display BGP status and configuration                            |
| mbgp                  | Display MBGP status and configuration                           |
| vrf                   | (Optional) Virtual Router Context                               |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                       |
| nexthop               | Display routes matching the nexthop                             |
| <i>ipnexthop</i>      | Nexthop address   |
| ipv4                  | (Optional) Display BGP information for IPv4 address family      |
| unicast               | (Optional) Display BGP information for unicast address family   |
| multicast             | (Optional) Display BGP information for multicast address family |

## Command Mode

- /exec

## show ip mbgp prefix-list

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ ipv4 { unicast | multicast } ] } }
prefix-list { <prfxlist-name> | <test_pol_name> } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                                 |
| ip                    | Display IP information  |
| bgp                   | Display BGP status and configuration                            |
| mbgp                  | Display MBGP status and configuration                           |
| vrf                   | (Optional) Virtual Router Context                               |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                       |
| prefix-list           | Display routes matching the prefix-list                         |
| <i>prfxlist-name</i>  | Name of prefix-list   |
| <i>test_pol_name</i>  | An existing test-list policy                                    |
| ipv4                  | (Optional) Display BGP information for IPv4 address family      |
| unicast               | (Optional) Display BGP information for unicast address family   |
| multicast             | (Optional) Display BGP information for multicast address family |

### Command Mode

- /exec

## show ip mbgp received-paths

```
show ip { mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | { bgp [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ { ipv4 { unicast | multicast } | all }
] } } received-paths [ private ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                                 |
| ip                    | Display IP information  |
| bgp                   | Display BGP status and configuration                            |
| mbgp                  | Display MBGP status and configuration                           |
| vrf                   | (Optional) Virtual Router Context                               |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                       |
| received-paths        | Display paths stored for soft-reconfig                          |
| ipv4                  | (Optional) Display BGP information for IPv4 address family      |
| unicast               | (Optional) Display BGP information for unicast address family   |
| multicast             | (Optional) Display BGP information for multicast address family |
| all                   | (Optional) Display BGP information for all address families     |
| private               | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                       |

### Command Mode

- /exec

## show ip mroute

```
show ip mroute [ [ [ bitfield ] [ detail ] ] | sr | rp | [ summary [ count | software-forwarded | rpf-failed ] ] | { [
[ <source> <group> ] | [ <group> [ <source> ] ] ] [ shared-tree | source-tree | mofrr ] [ [ flags ] | [ detail ] ] [
bitfield ] ] [ summary [ software-forwarded | rpf-failed ] ] } ] [ vrf { <vrf-name> | <vrf-known-name> | all
} ] [ __readonly__ TABLE_vrf <vrf-name> [ <expiry_timer> ] [ <route_count> ] [ <star_g_cnt> ] [ <sg_cnt>
] [ <star_g_prfx_cnt> ] [ TABLE_route_summary [ <total-num-routes> ] [ <star-g-route> ] [ <sg-route> ] [
<star-g-prfx> ] [ <group-count> ] [ <avg> ] [ <rem> ] [ <stats-pndg> ] ] [ TABLE_summary_source [
<group_addr> ] [ <group_mask_len> ] [ <source_count> ] [ TABLE_one_sg [ <source_addr> ] [ <packets>
] [ <bytes> ] [ <aps> ] [ <pps> ] [ <rate_buf> ] [ <oifs> ] [ <software_fwd> ] [ <rpf-failed-pkts> ] [
<rpf-failed-bytes> ] ] ] [ TABLE_one_route <mcast-addr> [ <source_addr> <group_addr> ] [ <pending>
] [ <bidir> ] [ <uptime> ] [ <mofrr> ] [ TABLE_mpib [ <mpib-name> ] [ <oif-count> ] [ <stale-route> ] ] [
<mdt-encap-index> ] [ <stats-pkts> ] [ <stats-bytes> ] [ <stats-rate-buf> ] [ <lisp-src-rloc> ] [
<translated-route-src> ] [ <translated-route-grp> ] [ <route-iif> ] [ <rpf-nbr> ] [ <mofrr-iif> ] [ <mofrr-nbr>
] [ <internal> ] [ <oif-count> ] [ <fabric-oif> ] [ <fabric-loser> ] [ <num-vpc-svi-oifs> ] [ TABLE_oif [
<oif-name> ] [ <oif-uptime> ] [ TABLE_oif_mpib [ <oif-mpib-name> ] [ <stale-oif> ] [ <omd-vpc-svi> ] [
<core-interest> ] [ <fabric-interest> ] ] [ <rpf> ] ] [ <route-mdt-iod> ] [ <oif-list-bitfield> ] ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                             |
| ip                    | Display IP information                                      |
| vrf                   | (Optional) Display per-VRF information                      |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                   |
| all                   | (Optional) Display information for all VRFs                 |
| mroute                | Display IP multicast routing table                          |
| summary               | (Optional) Display route counts and packet rates            |
| shared-tree           | (Optional) Display route for *,G entries                    |
| source-tree           | (Optional) Display route for S,G entries                    |
| software-forwarded    | (Optional) Display software switched route counts only      |
| rpf-failed            | (Optional) Display RPF failure statistics                   |
| rp                    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                   |
| sr                    | (Optional) Display Service Reflect Routes only              |
| mofrr                 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                   |
| <i>group</i>          | (Optional) Display multicast group/source address for route |
| <i>source</i>         | (Optional) Display multicast group/source address for route |



|                         |  |
|-------------------------|--|
| count                   | (Optional) Display route counts only         |
| bitfield                | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED    |
| detail                  | (Optional) Display detailed route attributes |
| flags                   | (Optional) Display detailed route attributes |
| <i>__readonly__</i>     | (Optional)                                   |
| TABLE_vrf               | (Optional)                                   |
| <i>vrf-name</i>         | (Optional)                                   |
| <i>expyr_timer</i>      | (Optional)                                   |
| <i>route_count</i>      | (Optional)                                   |
| <i>star_g_cnt</i>       | (Optional)                                   |
| <i>sg_cnt</i>           | (Optional)                                   |
| <i>star_g_prfx_cnt</i>  | (Optional)                                   |
| TABLE_summary_source    | (Optional)                                   |
| <i>group_addr</i>       | (Optional)                                   |
| <i>group_mask_len</i>   | (Optional)                                   |
| <i>source_count</i>     | (Optional)                                   |
| TABLE_one_sg            | (Optional)                                   |
| <i>source_addr</i>      | (Optional)                                   |
| <i>packets</i>          | (Optional)                                   |
| <i>bytes</i>            | (Optional)                                   |
| <i>aps</i>              | (Optional)                                   |
| <i>pps</i>              | (Optional)                                   |
| <i>rate_buf</i>         | (Optional)                                   |
| <i>oifs</i>             | (Optional)                                   |
| <i>software_fwd</i>     | (Optional)                                   |
| <i>rpf-failed-pkts</i>  | (Optional)                                   |
| <i>rpf-failed-bytes</i> | (Optional)                                   |
| TABLE_one_route         | (Optional)                                   |
| <i>mcast-addr</i>       | (Optional)                                   |

|                             |            |
|-----------------------------|------------|
| <i>source_addrs</i>         | (Optional) |
| <i>group_addrs</i>          | (Optional) |
| <i>bidir</i>                | (Optional) |
| <i>pending</i>              | (Optional) |
| <i>mofrr</i>                | (Optional) |
| <i>uptime</i>               | (Optional) |
| TABLE_mpib                  | (Optional) |
| <i>mpib-name</i>            | (Optional) |
| <i>oif-count</i>            | (Optional) |
| <i>stale-route</i>          | (Optional) |
| <i>mdt-encap-index</i>      | (Optional) |
| <i>stats-pkts</i>           | (Optional) |
| <i>stats-bytes</i>          | (Optional) |
| <i>stats-rate-buf</i>       | (Optional) |
| <i>lisp-src-rloc</i>        | (Optional) |
| <i>translated-route-src</i> | (Optional) |
| <i>translated-route-grp</i> | (Optional) |
| <i>route-iif</i>            | (Optional) |
| <i>rpf-nbr</i>              | (Optional) |
| <i>mofrr-iif</i>            | (Optional) |
| <i>mofrr-nbr</i>            | (Optional) |
| <i>internal</i>             | (Optional) |
| <i>oif-count</i>            | (Optional) |
| <i>fabric-oif</i>           | (Optional) |
| <i>fabric-loser</i>         | (Optional) |
| <i>num-vpc-svi-oifs</i>     | (Optional) |
| TABLE_oif                   | (Optional) |
| <i>oif-name</i>             | (Optional) |
| <i>oif-uptime</i>           | (Optional) |

|                          |            |
|--------------------------|------------|
| TABLE_oif_mpib           | (Optional) |
| <i>oif-mpib-name</i>     | (Optional) |
| <i>stale-oif</i>         | (Optional) |
| <i>omd-vpc-svi</i>       | (Optional) |
| <i>core-interest</i>     | (Optional) |
| <i>fabric-interest</i>   | (Optional) |
| <i>rpf</i>               | (Optional) |
| <i>route-mdt-iod</i>     | (Optional) |
| <i>oif-list-bitfield</i> | (Optional) |
| TABLE_route_summary      | (Optional) |
| <i>total-num-routes</i>  | (Optional) |
| <i>star-g-route</i>      | (Optional) |
| <i>sg-route</i>          | (Optional) |
| <i>star-g-prfx</i>       | (Optional) |
| <i>group-count</i>       | (Optional) |
| <i>avg</i>               | (Optional) |
| <i>rem</i>               | (Optional) |
| <i>stats-pndg</i>        | (Optional) |

**Command Mode**

- /exec

## show ip msdp count

```
show ip msdp count [ <asn> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf
[ <out-vrf> ] [ <total-cnt> ] [ TABLE_asn [ <out-asn> ] [ <src-cnt> ] [ <grp-cnt> ] ] ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| msdp                  | Display MSDP status and configuration       |
| count                 | Display SA cache counters                   |
| <i>asn</i>            | (Optional) AS number                        |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_vrf             | (Optional)                                  |
| <i>out-vrf</i>        | (Optional)                                  |
| <i>total-cnt</i>      | (Optional)                                  |
| TABLE_asn             | (Optional)                                  |
| <i>out-asn</i>        | (Optional)                                  |
| <i>src-cnt</i>        | (Optional)                                  |
| <i>grp-cnt</i>        | (Optional)                                  |

### Command Mode

- /exec

## show ip msdp mesh-group

```
show ip msdp mesh-group [ <mesh-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
[ TABLE_vrf [ <out-vrf> ] [ TABLE_meshgroup [ <meshgroup-name> ] [ TABLE_peer [ <peer-ipaddr> ] [
<peer-asn> ] [ <peer-description> ] ] ] ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information             |
| ip                      | Display IP information                      |
| msdp                    | Display MSDP status and configuration       |
| mesh-group              | Display members of mesh-group               |
| <i>mesh-group</i>       | (Optional) Display single mesh-group        |
| vrf                     | (Optional) Display per-VRF information      |
| <i>vrf-name</i>         | (Optional) VRF name                         |
| <i>vrf-known-name</i>   | (Optional) Known VRF name                   |
| all                     | (Optional) Display information for all VRFs |
| <i>__readonly__</i>     | (Optional)                                  |
| TABLE_vrf               | (Optional)                                  |
| <i>out-vrf</i>          | (Optional)                                  |
| TABLE_meshgroup         | (Optional)                                  |
| <i>meshgroup-name</i>   | (Optional)                                  |
| TABLE_peer              | (Optional)                                  |
| <i>peer-ipaddr</i>      | (Optional)                                  |
| <i>peer-asn</i>         | (Optional)                                  |
| <i>peer-description</i> | (Optional)                                  |

### Command Mode

- /exec

## show ip msdp peer

```
show ip msdp peer [ <peer-address> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_peer [ <peer-ipaddr> ] [ <out-vrf> ] [ <peer-asn> ] [ <local-ipaddr> ] [ <local-iface> ] [
<fully-configured> ] [ <peer-description> ] [ <connection-status> ] [ <peer-listening> ] [ <state-duration> ]
[ <peer-uptime> ] [ <peer-rr> ] [ <peer-password> ] [ <peer-ki> ] [ <peer-kt> ] [ <peer-ri> ] [ <sa-in-policy>
] [ <sa-out-policy> ] [ <sa-limit> ] [ <mesh-name> ] [ <last-rcvd> ] [ <sa-rcvd> ] [ <sa-sent> ] [ <sa-req-rcvd>
] [ <sa-req-sent> ] [ <sa-resp-rcvd> ] [ <sa-resp-sent> ] [ <in-ctrl-msgs> ] [ <out-ctrl-msgs> ] [ <in-data-msgs>
] [ <out-data-msgs> ] [ <sa-ka-rcvd> ] [ <sa-ka-sent> ] [ <sa-notif-rcvd> ] [ <sa-notif-sent> ] [ <rem-port> ]
[ <local-port> ] [ <rfp-failures> ] [ <cache-lifetime> ] [ <estb-transitions> ] [ <conn-attempts> ] [ <discont-time>
] ] ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information             |
| ip                       | Display IP information                      |
| msdp                     | Display MSDP status and configuration       |
| vrf                      | (Optional) Display per-VRF information      |
| <i>vrf-name</i>          | (Optional) VRF name                         |
| <i>vrf-known-name</i>    | (Optional) Known VRF name                   |
| all                      | (Optional) Display information for all VRFs |
| peer                     | Display MSDP peer information               |
| <i>peer-address</i>      | (Optional) IP address of MSDP peer          |
| <i>__readonly__</i>      | (Optional)                                  |
| <i>TABLE_peer</i>        | (Optional)                                  |
| <i>peer-ipaddr</i>       | (Optional)                                  |
| <i>out-vrf</i>           | (Optional)                                  |
| <i>peer-asn</i>          | (Optional)                                  |
| <i>local-ipaddr</i>      | (Optional)                                  |
| <i>local-iface</i>       | (Optional)                                  |
| <i>fully-configured</i>  | (Optional)                                  |
| <i>peer-description</i>  | (Optional)                                  |
| <i>connection-status</i> | (Optional)                                  |
| <i>state-duration</i>    | (Optional)                                  |

|                       |            |
|-----------------------|------------|
| <i>peer-listening</i> | (Optional) |
| <i>peer-uptime</i>    | (Optional) |
| <i>peer-password</i>  | (Optional) |
| <i>peer-ki</i>        | (Optional) |
| <i>peer-kt</i>        | (Optional) |
| <i>peer-ri</i>        | (Optional) |
| <i>peer-rr</i>        | (Optional) |
| <i>sa-in-policy</i>   | (Optional) |
| <i>sa-out-policy</i>  | (Optional) |
| <i>sa-limit</i>       | (Optional) |
| <i>mesh-name</i>      | (Optional) |
| <i>last-rcvd</i>      | (Optional) |
| <i>sa-rcvd</i>        | (Optional) |
| <i>sa-sent</i>        | (Optional) |
| <i>sa-req-rcvd</i>    | (Optional) |
| <i>sa-req-sent</i>    | (Optional) |
| <i>sa-resp-rcvd</i>   | (Optional) |
| <i>sa-resp-sent</i>   | (Optional) |
| <i>out-ctrl-msgs</i>  | (Optional) |
| <i>in-ctrl-msgs</i>   | (Optional) |
| <i>out-data-msgs</i>  | (Optional) |
| <i>in-data-msgs</i>   | (Optional) |
| <i>sa-ka-rcvd</i>     | (Optional) |
| <i>sa-ka-sent</i>     | (Optional) |
| <i>sa-notif-rcvd</i>  | (Optional) |
| <i>sa-notif-sent</i>  | (Optional) |
| <i>rem-port</i>       | (Optional) |
| <i>local-port</i>     | (Optional) |
| <i>rpf-failures</i>   | (Optional) |

|                         |            |
|-------------------------|------------|
| <i>cache-lifetime</i>   | (Optional) |
| <i>estb-transitions</i> | (Optional) |
| <i>conn-attempts</i>    | (Optional) |
| <i>discont-time</i>     | (Optional) |

**Command Mode**

- /exec



## show ip msdp policy statistics sa-policy in

```
show ip msdp policy statistics sa-policy <peer-address> { in | out } [ vrf { <vrf-name> | <vrf-known-name>
} ] [ __readonly__ [ TABLE_routemap [ <name> ] [ <action> ] [ <seq_num> ] [ TABLE_cmd [ <command>
] [ <compare_count> ] [ <match_count> ] ] ] [ <total_accept_count> ] [ <total_reject_count> ] ]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information        |
| ip                        | Display IP information                 |
| msdp                      | MSDP global configuration commands     |
| policy                    | Policy information                     |
| statistics                | Policy statistics                      |
| sa-policy                 | Configured SA policy for MSDP peer     |
| <i>peer-address</i>       | IP address of MSDP peer for SA policy  |
| in                        | Input policy                           |
| out                       | Output policy                          |
| vrf                       | (Optional) Display per-VRF information |
| <i>vrf-name</i>           | (Optional) VRF name                    |
| <i>vrf-known-name</i>     | (Optional) Known VRF name              |
| <i>__readonly__</i>       | (Optional)                             |
| TABLE_routemap            | (Optional)                             |
| <i>name</i>               | (Optional)                             |
| <i>action</i>             | (Optional)                             |
| <i>seq_num</i>            | (Optional)                             |
| TABLE_cmd                 | (Optional)                             |
| <i>command</i>            | (Optional)                             |
| <i>compare_count</i>      | (Optional)                             |
| <i>match_count</i>        | (Optional)                             |
| <i>total_accept_count</i> | (Optional)                             |
| <i>total_reject_count</i> | (Optional)                             |

### Command Mode

- /exec

## show ip msdp rpf

```
show ip msdp rpf <rp-address> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_rp
[ <out-rp-address> ] [ <out-vrf> ] [ TABLE_mesh [ <peer-addr> ] [ <mesh-name> ] ] [ <is-peer-cnt-one> ] [
<is-rp-peer> ] [ <is-bgp-alive> ] [ <bgp-peer-addr> ] [ <peer-asn> ] [ <origin-asn> ] [ <is-mbgp> ] ] ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information             |
| ip                     | Display IP information                      |
| msdp                   | Display MSDP status and configuration       |
| rpf                    | Display RPF-peer for RP address             |
| <i>rp-address</i>      | IP address of RP                            |
| vrf                    | (Optional) Display per-VRF information      |
| <i>vrf-name</i>        | (Optional) VRF name                         |
| <i>vrf-known-name</i>  | (Optional) Known VRF name                   |
| all                    | (Optional) Display information for all VRFs |
| __readonly__           | (Optional)                                  |
| TABLE_rp               | (Optional)                                  |
| <i>out-rp-address</i>  | (Optional)                                  |
| <i>out-vrf</i>         | (Optional)                                  |
| TABLE_mesh             | (Optional)                                  |
| <i>peer-addr</i>       | (Optional)                                  |
| <i>mesh-name</i>       | (Optional)                                  |
| <i>is-peer-cnt-one</i> | (Optional)                                  |
| <i>is-rp-peer</i>      | (Optional)                                  |
| <i>is-bgp-alive</i>    | (Optional)                                  |
| <i>bgp-peer-addr</i>   | (Optional)                                  |
| <i>peer-asn</i>        | (Optional)                                  |
| <i>origin-asn</i>      | (Optional)                                  |
| <i>is-mbgp</i>         | (Optional)                                  |

### Command Mode

- /exec

## show ip msdp sa

```
show ip msdp { sa-cache | route } [ { <source> [ <group> ] } | { <group> [ <source> ] } ] [ <asn> ] [ peer
<peer> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf [ <out-vrf>
] [ <total-sa-count> ] [ TABLE_sa [ <src-addr> ] [ <grp-addr> ] [ <rp-addr> ] [ <out-asn> ] [ <uptime> ] [
<peer-addr> ] [ <expire> ] ] ] ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                      |
| ip                    | Display IP information                               |
| msdp                  | Display MSDP status and configuration                |
| vrf                   | (Optional) Display per-VRF information               |
| <i>vrf-name</i>       | (Optional) VRF name                                  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                            |
| all                   | (Optional) Display information for all VRFs          |
| route                 | Display MSDP SA route cache                          |
| sa-cache              | Display MSDP SA route cache                          |
| <i>source</i>         | (Optional) Display group/source address for SA       |
| <i>group</i>          | (Optional) Display group/source address for SA       |
| <i>asn</i>            | (Optional) AS number                                 |
| detail                | (Optional) Display detailed information              |
| peer                  | (Optional) Display MSDP SA received from single peer |
| <i>peer</i>           | (Optional) IP address of peer for SA                 |
| __readonly__          | (Optional)   |
| TABLE_vrf             | (Optional)   |
| <i>out-vrf</i>        | (Optional)   |
| <i>total-sa-count</i> | (Optional)   |
| TABLE_sa              | (Optional)   |
| <i>src-addr</i>       | (Optional)   |
| <i>grp-addr</i>       | (Optional)   |
| <i>rp-addr</i>        | (Optional)   |

|                  |            |
|------------------|------------|
| <i>peer-addr</i> | (Optional) |
| <i>out-asn</i>   | (Optional) |
| <i>uptime</i>    | (Optional) |
| <i>expire</i>    | (Optional) |

**Command Mode**

- /exec

# show ip msdp sources

```
show ip msdp sources [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_VRF [
<out-vrf> ] [ TABLE_source [ <source-addr> ] [ <count> ] [ <is-count-ge-limit> ] [ <is-limit-valid> ] [ <limit>
] [ <source-prefix> ] [ <violates> ] ] ] ]
```

## Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information                            |
| ip                       | Display IP information                                     |
| msdp                     | Display MSDP status and configuration                      |
| sources                  | Display learned sources with their group counts and limits |
| vrf                      | (Optional) Display per-VRF information                     |
| <i>vrf-name</i>          | (Optional) VRF name  |
| <i>vrf-known-name</i>    | (Optional) Known VRF name                                  |
| all                      | (Optional) Display information for all VRFs                |
| <i>__readonly__</i>      | (Optional)   |
| TABLE_VRF                | (Optional)   |
| <i>out-vrf</i>           | (Optional)   |
| TABLE_source             | (Optional)   |
| <i>source-addr</i>       | (Optional)   |
| <i>is-count-ge-limit</i> | (Optional)   |
| <i>count</i>             | (Optional)   |
| <i>is-limit-valid</i>    | (Optional)   |
| <i>limit</i>             | (Optional)   |
| <i>source-prefix</i>     | (Optional)   |
| <i>violates</i>          | (Optional)   |

## Command Mode

- /exec

## show ip msdp statistics

```
show ip msdp statistics [ <peer-address> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_vrf [ <out-vrf> ] [ <select-err> ] [ <recv-sel-err> ] [ TABLE_peer [ <peer-address> ] [ <buffer-full>
] [ <recv-buf-full> ] [ <fatal-err> ] [ <recv-fat-err> ] [ <would-block> ] [ <recv-would-block> ] [ <sock-exp>
] [ <invalid-type> ] [ <invalid-len> ] ] ] ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information             |
| ip                      | Display IP information                      |
| msdp                    | Display MSDP status and configuration       |
| statistics              | Display internal statistics                 |
| <i>peer-address</i>     | (Optional) IP address of MSDP peer          |
| vrf                     | (Optional) Display per-VRF information      |
| <i>vrf-name</i>         | (Optional) VRF name                         |
| <i>vrf-known-name</i>   | (Optional) Known VRF name                   |
| all                     | (Optional) Display information for all VRFs |
| __readonly__            | (Optional)                                  |
| TABLE_vrf               | (Optional)                                  |
| <i>out-vrf</i>          | (Optional)                                  |
| <i>select-err</i>       | (Optional)                                  |
| <i>recv-sel-err</i>     | (Optional)                                  |
| TABLE_peer              | (Optional)                                  |
| <i>peer-address</i>     | (Optional)                                  |
| <i>buffer-full</i>      | (Optional)                                  |
| <i>recv-buf-full</i>    | (Optional)                                  |
| <i>fatal-err</i>        | (Optional)                                  |
| <i>recv-fat-err</i>     | (Optional)                                  |
| <i>would-block</i>      | (Optional)                                  |
| <i>recv-would-block</i> | (Optional)                                  |
| <i>sock-exp</i>         | (Optional)                                  |



|                     |            |
|---------------------|------------|
| <i>invalid-type</i> | (Optional) |
| <i>invalid-len</i>  | (Optional) |

**Command Mode**

- /exec

## show ip msdp summary

```
show ip msdp summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_VRF [
<out-vrf> ] [ <local-asn> ] [ <originator-id> ] [ <config-peer-count> ] [ <estb-peer-count> ] [ <shut-peer-count>
] [ TABLE_peer [ <peer-address> ] [ <peer-asn> ] [ <peer-state> ] [ <peer-uptime> ] [ <peer-last-msg> ] [
<peer-sa-rcvd> ] [ <peer-sa-limit> ] ] ] ] ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information             |
| ip                       | Display IP information                      |
| msdp                     | Display MSDP status and configuration       |
| vrf                      | (Optional) Display per-VRF information      |
| <i>vrf-name</i>          | (Optional) VRF name                         |
| <i>vrf-known-name</i>    | (Optional) Known VRF name                   |
| all                      | (Optional) Display information for all VRFs |
| summary                  | Display MSDP peer summary                   |
| <i>__readonly__</i>      | (Optional)                                  |
| TABLE_VRF                | (Optional)                                  |
| <i>out-vrf</i>           | (Optional)                                  |
| <i>local-asn</i>         | (Optional)                                  |
| <i>originator-id</i>     | (Optional)                                  |
| <i>config-peer-count</i> | (Optional)                                  |
| <i>estb-peer-count</i>   | (Optional)                                  |
| <i>shut-peer-count</i>   | (Optional)                                  |
| TABLE_peer               | (Optional)                                  |
| <i>peer-address</i>      | (Optional)                                  |
| <i>peer-asn</i>          | (Optional)                                  |
| <i>peer-state</i>        | (Optional)                                  |
| <i>peer-uptime</i>       | (Optional)                                  |
| <i>peer-last-msg</i>     | (Optional)                                  |
| <i>peer-sa-rcvd</i>      | (Optional)                                  |

|                      |            |
|----------------------|------------|
| <i>peer-sa-limit</i> | (Optional) |
|----------------------|------------|

**Command Mode**

- /exec

# show ip nat-alias

```
show ip nat-alias [ __readonly__ [ TABLE_nat_alias_vrf [ { <nat-alias-vrf-name> [ TABLE_each_vrf_alias
{ <nat-alias-addr> <nat-alias-intr> } ] } ] ] ] ]
```

## Syntax Description

|                             |  |
|-----------------------------|--|
| show                        | Show running system information          |
| ip                          | Display IP information                   |
| nat-alias                   | Display aliases registered by NAT module |
| <i>__readonly__</i>         | (Optional)                               |
| <i>TABLE_nat_alias_vrf</i>  | (Optional)                               |
| <i>nat-alias-vrf-name</i>   | (Optional)                               |
| <i>TABLE_each_vrf_alias</i> | (Optional)                               |
| <i>nat-alias-addr</i>       | (Optional)                               |
| <i>nat-alias-intr</i>       | (Optional)                               |

## Command Mode

- /exec

# show ip nat max

```
show ip nat max [ __readonly__ <max_dyn_translations> <max_all_host> <static_translations>
<dynamic_translations> <icmp_translations> ]
```

## Syntax Description

|                             |                                     |
|-----------------------------|-------------------------------------|
| show                        | Show running system information     |
| ip                          | Show the IP features of the system  |
| nat                         | IP NAT information                  |
| max                         | IP NAT max values                   |
| <i>__readonly__</i>         | (Optional)                          |
| <i>max_dyn_translations</i> | (Optional) Max Dynamic Translations |
| <i>max_all_host</i>         | (Optional) Max All Hosts            |
| <i>static_translations</i>  | (Optional) No. Static Translations  |
| <i>dynamic_translations</i> | (Optional) No. Dynamic Translations |
| <i>icmp_translations</i>    | (Optional) No. ICMP Translations    |

## Command Mode

- /exec

# show ip nat statistics

show ip nat statistics

## Syntax Description

|            |                                    |
|------------|------------------------------------|
| show       | Show running system information    |
| ip         | Show the IP features of the system |
| nat        | IP NAT information                 |
| statistics | Translation statistics             |

## Command Mode

- /exec

## Example

```
switch# show show ip nat statistics
Pro Inside global Inside localOutside local Outside global
uIP NAT Statistics
=====
Total active translations: 2
No.Static: 2
No.Dyn: 0
No.ICMP: 0
-----
Total expired Translations: 0
SYN timer expired:0
FIN-RST timer expired:0
Inactive timer expired: 0
-----
Total Hits: 0Total Misses: 3
In-Out Hits: 0In-Out Misses: 0
Out-In Hits: 0Out-In Misses: 3
-----
Total SW Translated Packets: 0
In-Out SW Translated: 0
Out-In SW Translated: 0
-----
Total SW Dropped Packets: 0
In-Out SW Dropped: 0
Out-In SW Dropped: 0
Address alloc. failure drop: 0
Port alloc. failure drop: 0
Dyn. Translation max limit drop: 0
ICMP max limit drop: 0
Allhost max limit drop: 0
-----
NAT Inside Interfaces: 1
Ethernet1/1
NAT Outside Interfaces: 1
Ethernet1/3
-----
Inside source list:
+++++
Access list: ACL1
```

```
RefCount: 0
Pool: pool1 Overload
Total addresses: 200
Allocated: 0 percentage: 0%
Missed: 0
```

# show ip nat timeout

```
show ip nat timeout [ __readonly__ <tcp_timeout> <udp_timeout> [ <icmp_timeout> ] <dynamic_timeout>
[ <sampling_timeout> ] [ <syn_timeout> ] [ <finrst_timeout> ] ]
```

## Syntax Description

|                         |                                    |
|-------------------------|------------------------------------|
| show                    | Show running system information    |
| ip                      | Show the IP features of the system |
| nat                     | IP NAT information                 |
| timeout                 | IP NAT timeout values              |
| <i>__readonly__</i>     | (Optional)                         |
| <i>tcp_timeout</i>      | (Optional) TCP Timeout             |
| <i>udp_timeout</i>      | (Optional) UDP Timeout             |
| <i>icmp_timeout</i>     | (Optional) ICMP Timeout            |
| <i>dynamic_timeout</i>  | (Optional) Dynamic Timeout         |
| <i>sampling_timeout</i> | (Optional) Sampling Timeout        |
| <i>syn_timeout</i>      | (Optional) SYN Timeout             |
| <i>finrst_timeout</i>   | (Optional) FINRST Timeout          |

## Command Mode

- /exec



# show ip nat translations

```
show ip nat translations [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ verbose ] [ internal-detail ] [
__readonly__ { TABLE_nat_translation [ <Protocol> ] [ <Inside_global_IP_V4_Address> ] [
<Inside_global_port> ] [ <Inside_local_IP_V4_Address> ] [ <Inside_local_port> ] [
<Outside_local_IP_V4_Address> ] [ <Outside_local_port> ] [ <Outside_global_IP_V4_Address> ] [
<Outside_global_port> ] [ <VRF> ] [ <In_stats_count> ] [ <Out_stats_count> ] [ <Group_id> ] [ <Time_left>
] [ <Syn> ] [ <Fin_rst> ] [ <Flags> ] [ <Entry_id> ] [ <State> ] } ]
```

## Syntax Description

|                                     |  |
|-------------------------------------|--|
| show                                | Show running system information        |
| ip                                  | Show the IP features of the system     |
| nat                                 | IP NAT information                     |
| translations                        | Translation entries                    |
| verbose                             | (Optional) Show extra information      |
| vrf                                 | (Optional) Display per-VRF information |
| <i>vrf-name</i>                     | (Optional) VRF name                    |
| <i>vrf-known-name</i>               | (Optional) Known VRF name              |
| all                                 | (Optional) Display all vrfs            |
| internal-detail                     | (Optional) Display internal debugs     |
| <i>__readonly__</i>                 | (Optional) Readonly                    |
| TABLE_nat_translation               | (Optional) NAT Translation Table       |
| <i>Protocol</i>                     | (Optional) Protocol                    |
| <i>Inside_global_IP_V4_Address</i>  | (Optional) Inside global address       |
| <i>Inside_global_port</i>           | (Optional) Inside global port          |
| <i>Inside_local_IP_V4_Address</i>   | (Optional) Inside local address        |
| <i>Inside_local_port</i>            | (Optional) Inside local port           |
| <i>Outside_local_IP_V4_Address</i>  | (Optional) Outside local address       |
| <i>Outside_local_port</i>           | (Optional) Outside local port          |
| <i>Outside_global_IP_V4_Address</i> | (Optional) Outside global address      |
| <i>Outside_global_port</i>          | (Optional) Outside global port         |
| <i>Flags</i>                        | (Optional) Flags                       |

|                        |                                 |
|------------------------|---------------------------------|
| <i>In_stats_count</i>  | (Optional) In stats count       |
| <i>Out_stats_count</i> | (Optional) Out stats count      |
| <i>Entry_id</i>        | (Optional) Entry ID             |
| <i>State</i>           | (Optional) State                |
| <i>Group_id</i>        | (Optional) Group ID             |
| <i>VRF</i>             | (Optional) VRF                  |
| <i>Time_left</i>       | (Optional) Time Left (HH:MM:SS) |
| <i>Syn</i>             | (Optional) Syn                  |
| <i>Fin_rst</i>         | (Optional) FIN RESET            |

**Command Mode**

- /exec

# show ip ospf

```

show ip ospf [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag>
<instance_number> <cname> <rid> [ <domain_id_type> ] [ <domain_id_value> ] [ <domain_tag> ] [
<dn_bit_ignore> ] <stateful_ha> <gr_ha> [ <gr_planned_only> ] [ <gr_grace_period> ] [ <gr_state> ] [
<gr_last_status> ] [ <gr_helper_mode> ] <support_tos0_only> <support_opaque_lsa> [ <low_mem_cond>
] <is_abr> <is_asbr> [ <max_lsa_non_self_number> ] [ <max_lsa_state> ] [ <max_lsa_warning_only> ] [
<max_lsa_current_non_self_lsa_number> ] [ <max_lsa_threshold_pct> ] [ <max_lsa_ignore_time> ] [
<max_lsa_reset_time> ] [ <max_lsa_ignore_count> ] [ <max_lsa_current_ignore_count> ] [
<max_lsa_ignore_time_left> ] [ <max_lsa_reset_time_left> ] [ <max_lsa_permanent_ignore> ] [ {
TABLE_redist <proto> [ <max_lsas> ] [ <warning> ] [ <threshold> ] [ <current_count> ] } ] <admin_dist>
<ref_bw> <spf_start_time> <spf_hold_time> <spf_max_time> <lsa_start_time> <lsa_hold_time>
<lsa_max_time> <min_lsa_arr_time> <lsa_aging_pace> <spf_max_paths> <max_metric_adver> [ [
<max_metric_time_left> ] [ <max_metric_wait_bgp> ] [ <max_metric_timeout> ] [ <max_metric_always>
] [ <max_metric_sum_lsa> ] [ <max_metric_ext_lsa> ] ] <asext_lsa_cnt> <asext_lsa_crc> <asopaque_lsa_cnt>
<asopaque_lsa_crc> <area_total> <area_normal> <area_stub> <area_nssa> <act_area_total> <act_area_normal>
<act_area_stub> <act_area_nssa> [ <name_lookup> ] <no_discard_rt_ext> <no_discard_rt_int> [ <passive_dfld>
] [ <bfd_enabled> ] [ <segrt_configured> ] [ <segrt_enabled> ] [ { <srgb_min_label> <srgb_max_label> } ]
[ { TABLE_area <aname> [ <backbone_active> ] [ <active> ] <age> <total_intf> <act_intf> <passive_intf>
<loopback_intf> [ <gr_nbr_cnt> ] <stub> [ <stub_def_cost> ] <nssa> [ <no_redist> ] [ <nssa_trans> ]
<no_summary> <auth_type> [ { <area_segrt_configured> | <area_segrt_disabled_by_config> } ] [
<area_segrt_enabled> ] <spf_runs> <last_spf_run_time> [ TABLE_range <addr> <masklen> <state> <nets>
<advertise> [ <cost> ] ] [ <filter_in> ] [ <filter_out> ] <lsa_cnt> <lsa_crc> } ] ]

```

## Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information             |
| ip                     | Display IP information                      |
| ospf                   | Display OSPF status and configuration       |
| <i>tag</i>             | (Optional) Process tag                      |
| vrf                    | (Optional) Display per-VRF information      |
| <i>vrf-name</i>        | (Optional) VRF name                         |
| <i>vrf-known-name</i>  | (Optional) Known VRF name                   |
| all                    | (Optional) Display information for all VRFs |
| <i>__readonly__</i>    | (Optional)                                  |
| TABLE_ctx              | (Optional)                                  |
| <i>ptag</i>            | (Optional)                                  |
| <i>instance_number</i> | (Optional)                                  |
| <i>cname</i>           | (Optional)                                  |
| <i>rid</i>             | (Optional)                                  |

|  |            |
|--|------------|
| <i>domain_id_type</i>                      | (Optional) |
| <i>domain_id_value</i>                     | (Optional) |
| <i>domain_tag</i>                          | (Optional) |
| <i>dn_bit_ignore</i>                       | (Optional) |
| <i>stateful_ha</i>                         | (Optional) |
| <i>gr_ha</i>                               | (Optional) |
| <i>gr_planned_only</i>                     | (Optional) |
| <i>gr_grace_period</i>                     | (Optional) |
| <i>gr_state</i>                            | (Optional) |
| <i>gr_last_status</i>                      | (Optional) |
| <i>gr_helper_mode</i>                      | (Optional) |
| <i>support_tos0_only</i>                   | (Optional) |
| <i>support_opaque_lsa</i>                  | (Optional) |
| <i>low_mem_cond</i>                        | (Optional) |
| <i>is_abr</i>                              | (Optional) |
| <i>is_asbr</i>                             | (Optional) |
| <i>max_lsa_non_self_number</i>             | (Optional) |
| <i>max_lsa_state</i>                       | (Optional) |
| <i>max_lsa_warning_only</i>                | (Optional) |
| <i>max_lsa_current_non_self_lsa_number</i> | (Optional) |
| <i>max_lsa_threshold_pct</i>               | (Optional) |
| <i>max_lsa_ignore_time</i>                 | (Optional) |
| <i>max_lsa_reset_time</i>                  | (Optional) |
| <i>max_lsa_ignore_count</i>                | (Optional) |
| <i>max_lsa_current_ignore_count</i>        | (Optional) |
| <i>max_lsa_ignore_time_left</i>            | (Optional) |
| <i>max_lsa_reset_time_left</i>             | (Optional) |
| <i>max_lsa_permanent_ignore</i>            | (Optional) |
| TABLE_redist                               | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>proto</i>                | (Optional) |
| <i>max_lsas</i>             | (Optional) |
| <i>warning</i>              | (Optional) |
| <i>threshold</i>            | (Optional) |
| <i>current_count</i>        | (Optional) |
| <i>admin_dist</i>           | (Optional) |
| <i>ref_bw</i>               | (Optional) |
| <i>spf_start_time</i>       | (Optional) |
| <i>spf_hold_time</i>        | (Optional) |
| <i>spf_max_time</i>         | (Optional) |
| <i>lsa_start_time</i>       | (Optional) |
| <i>lsa_hold_time</i>        | (Optional) |
| <i>lsa_max_time</i>         | (Optional) |
| <i>min_lsa_arr_time</i>     | (Optional) |
| <i>lsa_aging_pace</i>       | (Optional) |
| <i>spf_max_paths</i>        | (Optional) |
| <i>max_metric_adver</i>     | (Optional) |
| <i>max_metric_time_left</i> | (Optional) |
| <i>max_metric_wait_bgp</i>  | (Optional) |
| <i>max_metric_timeout</i>   | (Optional) |
| <i>max_metric_always</i>    | (Optional) |
| <i>max_metric_sum_lsa</i>   | (Optional) |
| <i>max_metric_ext_lsa</i>   | (Optional) |
| <i>asext_lsa_cnt</i>        | (Optional) |
| <i>asext_lsa_crc</i>        | (Optional) |
| <i>asopaque_lsa_cnt</i>     | (Optional) |
| <i>asopaque_lsa_crc</i>     | (Optional) |
| <i>area_total</i>           | (Optional) |
| <i>area_normal</i>          | (Optional) |

|                          |            |
|--------------------------|------------|
| <i>area_stub</i>         | (Optional) |
| <i>area_nssa</i>         | (Optional) |
| <i>act_area_total</i>    | (Optional) |
| <i>act_area_normal</i>   | (Optional) |
| <i>act_area_stub</i>     | (Optional) |
| <i>act_area_nssa</i>     | (Optional) |
| <i>name_lookup</i>       | (Optional) |
| <i>no_discard_rt_ext</i> | (Optional) |
| <i>no_discard_rt_int</i> | (Optional) |
| <i>passive_dflt</i>      | (Optional) |
| <i>bfd_enabled</i>       | (Optional) |
| <i>segrt_configured</i>  | (Optional) |
| <i>segrt_enabled</i>     | (Optional) |
| <i>srgb_min_label</i>    | (Optional) |
| <i>srgb_max_label</i>    | (Optional) |
| TABLE_area               | (Optional) |
| <i>aname</i>             | (Optional) |
| <i>backbone_active</i>   | (Optional) |
| <i>active</i>            | (Optional) |
| <i>age</i>               | (Optional) |
| <i>total_intf</i>        | (Optional) |
| <i>act_intf</i>          | (Optional) |
| <i>passive_intf</i>      | (Optional) |
| <i>loopback_intf</i>     | (Optional) |
| <i>gr_nbr_cnt</i>        | (Optional) |
| <i>stub</i>              | (Optional) |
| <i>stub_def_cost</i>     | (Optional) |
| <i>nssa</i>              | (Optional) |
| <i>no_redist</i>         | (Optional) |

|                                      |            |
|--------------------------------------|------------|
| <i>nssa_trans</i>                    | (Optional) |
| <i>no_summary</i>                    | (Optional) |
| <i>auth_type</i>                     | (Optional) |
| <i>area_segrt_configured</i>         | (Optional) |
| <i>area_segrt_disabled_by_config</i> | (Optional) |
| <i>area_segrt_enabled</i>            | (Optional) |
| <i>spf_runs</i>                      | (Optional) |
| <i>last_spf_run_time</i>             | (Optional) |
| TABLE_range                          | (Optional) |
| <i>addr</i>                          | (Optional) |
| <i>masklen</i>                       | (Optional) |
| <i>state</i>                         | (Optional) |
| <i>nets</i>                          | (Optional) |
| <i>advertise</i>                     | (Optional) |
| <i>cost</i>                          | (Optional) |
| <i>filter_in</i>                     | (Optional) |
| <i>filter_out</i>                    | (Optional) |
| <i>lsa_cnt</i>                       | (Optional) |
| <i>lsa_crc</i>                       | (Optional) |

**Command Mode**

- /exec

## show ip ospf border-routers

```
show ip ospf [ <tag> ] border-routers [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> [ TABLE_br <type> <addr> <cost> <asbr> <abr> <area> <spf_inst> [
<vlink_unresolved> ] [ TABLE_br_ubest_nh [ <ubest_nh_addr> ] [ <ubest_nh_intf> ] ] [ TABLE_br_mbest_nh
[ <mbest_nh_addr> ] [ <mbest_nh_intf> ] ] ] ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information             |
| ip                      | Display IP information                      |
| ospf                    | Display OSPF status and configuration       |
| <i>tag</i>              | (Optional) Process tag                      |
| vrf                     | (Optional) Display per-VRF information      |
| <i>vrf-name</i>         | (Optional) VRF name                         |
| <i>vrf-known-name</i>   | (Optional) Known VRF name                   |
| all                     | (Optional) Display information for all VRFs |
| border-routers          | Border routers                              |
| <u>__readonly__</u>     | (Optional)                                  |
| TABLE_ctx               | (Optional)                                  |
| <i>ptag</i>             | (Optional)                                  |
| <i>cname</i>            | (Optional)                                  |
| TABLE_br                | (Optional)                                  |
| <i>type</i>             | (Optional)                                  |
| <i>addr</i>             | (Optional)                                  |
| <i>cost</i>             | (Optional)                                  |
| <i>asbr</i>             | (Optional)                                  |
| <i>abr</i>              | (Optional)                                  |
| <i>area</i>             | (Optional)                                  |
| <i>spf_inst</i>         | (Optional)                                  |
| <i>vlink_unresolved</i> | (Optional)                                  |
| TABLE_br_ubest_nh       | (Optional)                                  |



|                      |            |
|----------------------|------------|
| <i>ubest_nh_addr</i> | (Optional) |
| <i>ubest_nh_intf</i> | (Optional) |
| TABLE_br_mbest_nh    | (Optional) |
| <i>mbest_nh_addr</i> | (Optional) |
| <i>mbest_nh_intf</i> | (Optional) |

**Command Mode**

- /exec

## show ip ospf database

```
show ip ospf [ <tag> ] database [ [ [ network | asbr-summary | summary | router | opaque-link | opaque-area
[ type { router-information | ext-prefix | ext-link } ] | nssa-external ] [ area <area-id-ip> ] ] | external [ ext_tag
<tag_val> ] | opaque-as ] [ <lsid> ] [ self-originated | adv-router <advid> | adv-router-name <adv-name> ] ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ _readonly_ TABLE_ctx <rid> <ptag> <cname> [
TABLE_db2_lsa <name> [ <area> ] <id> <advrtr> <age> <seqno> <cksum> [ <opaque_id> ] [ <prefix> ] [
<prefix_mask> ] [ <srgb_base> ] [ <srgb_range> ] [ <corrupt> ] [ <rtr_num_links> ] [ <tag> ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                   |
| ip                    | Display IP information                            |
| ospf                  | Display OSPF status and configuration             |
| <i>tag</i>            | (Optional) Process tag                            |
| vrf                   | (Optional) Display per-VRF information            |
| <i>vrf-name</i>       | (Optional) VRF name                               |
| <i>vrf-known-name</i> | (Optional) Known VRF name                         |
| all                   | (Optional) Display information for all VRFs       |
| database              | Link-state Database Summary                       |
| network               | (Optional) Display network LSAs                   |
| asbr-summary          | (Optional) Display type 4 (asbr-summary) LSAs     |
| external              | (Optional) Display type 5 (external) LSAs         |
| router                | (Optional) Display router LSAs                    |
| nssa-external         | (Optional) Display type 7 (NSSA external) LSAs    |
| opaque-link           | (Optional) Display Opaque Link-Local LSAs         |
| opaque-area           | (Optional) Display Opaque Area LSAs               |
| opaque-as             | (Optional) Display Opaque AS LSAs                 |
| summary               | (Optional) Display type 3 (network-summary) LSAs  |
| self-originated       | (Optional) Display only self-originated LSAs      |
| <i>lsid</i>           | (Optional) Restrict display by link state ID      |
| adv-router            | (Optional) Restrict display by Advertising router |
| <i>advid</i>          | (Optional) Advertising router ID                  |

|                           |  |
|---------------------------|--|
| <i>adv-router-name</i>    | (Optional) Restrict display by Advertising router name |
| <i>adv-name</i>           | (Optional) DNS Name of the Advertising router          |
| <i>area</i>               | (Optional) Display only LSA's in this area             |
| <i>area-id-ip</i>         | (Optional) Area Id as an integer or ip address         |
| <i>ext_tag</i>            | (Optional) Restrict display by tag                     |
| <i>tag_val</i>            | (Optional) 32-bit tag value                            |
| <i>type</i>               | (Optional) Opaque type                                 |
| <i>router-information</i> | (Optional) Router Information (RI) Opaque LSA          |
| <i>ext-prefix</i>         | (Optional) Extended Prefix Opaque LSA                  |
| <i>ext-link</i>           | (Optional) Extended Link Opaque LSA                    |
| <i>tag</i>                | (Optional)   |
| <i>__readonly__</i>       | (Optional)   |
| <i>TABLE_ctx</i>          | (Optional)   |
| <i>rid</i>                | (Optional)   |
| <i>ptag</i>               | (Optional)   |
| <i>cname</i>              | (Optional)   |
| <i>TABLE_db2_lsa</i>      | (Optional)   |
| <i>name</i>               | (Optional)   |
| <i>area</i>               | (Optional)   |
| <i>id</i>                 | (Optional)   |
| <i>advrtr</i>             | (Optional)   |
| <i>age</i>                | (Optional)   |
| <i>seqno</i>              | (Optional)   |
| <i>cksum</i>              | (Optional)   |
| <i>opaque_id</i>          | (Optional)   |
| <i>prefix</i>             | (Optional)   |
| <i>prefix_mask</i>        | (Optional)   |
| <i>srgb_base</i>          | (Optional)   |
| <i>srgb_range</i>         | (Optional)   |

|                      |            |
|----------------------|------------|
| <i>corrupt</i>       | (Optional) |
| <i>rtr_num_links</i> | (Optional) |

**Command Mode**

- /exec

## show ip ospf database database-summary

```
show ip ospf [ <tag> ] database database-summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_ctx <rid> <ptag> <cname> [ TABLE_dbsum [ TABLE_dbsum_area <area> [
TABLE_dbsum_area_lsa <area_lsa_name> <area_lsa_count> ] <area_lsa_total> ] [ TABLE_dbsum_all [
TABLE_dbsum_lsa_all <lsa_name> <lsa_count> ] <non_self_lsa_total> <lsa_total> ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| ospf                  | Display OSPF status and configuration       |
| <i>tag</i>            | (Optional) Process tag                      |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| database              | Link-state Database Summary                 |
| database-summary      | Summary of database                         |
| <u>__readonly__</u>   | (Optional)                                  |
| TABLE_ctx             | (Optional)                                  |
| <i>rid</i>            | (Optional)                                  |
| <i>ptag</i>           | (Optional)                                  |
| <i>cname</i>          | (Optional)                                  |
| TABLE_dbsum           | (Optional)                                  |
| TABLE_dbsum_area      | (Optional)                                  |
| <i>area</i>           | (Optional)                                  |
| TABLE_dbsum_area_lsa  | (Optional)                                  |
| <i>area_lsa_name</i>  | (Optional)                                  |
| <i>area_lsa_count</i> | (Optional)                                  |
| <i>area_lsa_total</i> | (Optional)                                  |
| TABLE_dbsum_all       | (Optional)                                  |

|                           |            |
|---------------------------|------------|
| TABLE_dbsum_lsa_all       | (Optional) |
| <i>lsa_name</i>           | (Optional) |
| <i>lsa_count</i>          | (Optional) |
| <i>non_self_lsa_total</i> | (Optional) |
| <i>lsa_total</i>          | (Optional) |

**Command Mode**

- /exec

## show ip ospf database detail

```
show ip ospf [ <tag> ] database [ [ [ network | asbr-summary | summary | router | opaque-link | opaque-area
[ type { router-information | ext-prefix | ext-link } ] | nssa-external ] [ area <area-id-ip> ] ] ] external [ ext_tag
<tag_val> ] | opaque-as ] [ <lsid> ] [ self-originated | adv-router <advid> | adv-router-name <adv-name> ]
detail [ private ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <rid> <ptag>
<cname> [ TABLE_db2_lsa <name> [ <area> ] [ <rtr_max_metric> ] [ TABLE_lsdb <age> <maxage>
<options> <options_str> <wrapping> <dummy> <flush_pending> <type> <id> <id_str> [ <opaque_type> ]
[ <opaque_type_str> ] [ <opaque_id> ] [ <prefix> ] [ <prefix_mask> ] [ <srgb_base> ] [ <srgb_range> ]
<advtr> <seqno> <cksum> <len> [ <corrupt> ] [ <rtr_abr> ] [ <rtr_asbr> ] [ <rtr_translate> ] [ <rtr_vlink_end>
] [ <rtr_num_links> ] [ <rtr_links_mismatch> ] [ TABLE_rlsa [ <rtr_link_type> ] [ <rtr_link_id_str> ] [
<rtr_link_id> ] [ <rtr_link_data_str> ] [ <rtr_link_data> ] [ <rtr_link_num_tos> ] [ <rtr_link_metric> ] [
TABLE_rlinktos [ <rtr_link_tos_id> ] [ <rtr_link_tos_metric> ] ] [ <net_mask> ] [ TABLE_netlsa [ <net_rtr>
] ] [ <sum_mask> ] [ <sum_metric> ] [ TABLE_sumlsa [ <sum_tos_id> ] [ <sum_tos_metric> ] ] [ <nssa_mask>
] [ <nssa_metric_type2> ] [ <nssa_metric> ] [ <nssa_fwd_addr> ] [ <nssa_tag> ] [ TABLE_nssa [
<nssa_tos_metric_type2> ] [ <nssa_tos_id> ] [ <nssa_tos_metric> ] [ <nssa_tos_fwd_addr> ] [ <nssa_tos_tag>
] ] [ <asext_mask> ] [ <asext_metric_type2> ] [ <asext_metric> ] [ <asext_fwd_addr> ] [ <asext_tag> ] [
TABLE_asext [ <asext_tos_metric_type2> ] [ <asext_tos_id> <asext_tos_metric> ] [ <asext_tos_fwd_addr>
] [ <asext_tos_tag> ] ] [ <opaque_link_intf> ] [ <opaque_unknown> ] [ <opaque_data_len> ] [ <opaque_data>
] [ <opaque_corrupt> ] [ <tlv_type> ] [ <tlv_len> ] [ <tlv_data> ] [ <tlv_unknown> ] [ <gr_interval> ] [
<gr_reason> ] [ <gr_addr> ] [ <te_frag_id> ] [ <te_rtr_id> ] [ <te_link_type> ] [ <te_link_id> ] [
<te_link_metric> ] [ <te_link_max_bw> ] [ <te_link_rsv_bw> ] [ <te_link_unrsv_bw> ] [ <te_link_admin>
] [ <te_num_links> ] ] ] ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                |
| ip                    | Display IP information                         |
| ospf                  | Display OSPF status and configuration          |
| <i>tag</i>            | (Optional) Process tag                         |
| vrf                   | (Optional) Display per-VRF information         |
| <i>vrf-name</i>       | (Optional) VRF name                            |
| <i>vrf-known-name</i> | (Optional) Known VRF name                      |
| all                   | (Optional) Display information for all VRFs    |
| database              | Link-state Database Summary                    |
| network               | (Optional) Display network LSAs                |
| asbr-summary          | (Optional) Display type 4 (asbr-summary) LSAs  |
| external              | (Optional) Display type 5 (external) LSAs      |
| router                | (Optional) Display router LSAs                 |
| nssa-external         | (Optional) Display type 7 (NSSA external) LSAs |

|                       |  |
|-----------------------|--|
| opaque-link           | (Optional) Display Opaque Link-Local LSAs              |
| opaque-area           | (Optional) Display Opaque Area LSAs                    |
| opaque-as             | (Optional) Display Opaque AS LSAs                      |
| summary               | (Optional) Display type 3 (network-summary) LSAs       |
| self-originated       | (Optional) Display only self-originated LSAs           |
| <i>lsid</i>           | (Optional) Restrict display by link state ID           |
| adv-router            | (Optional) Restrict display by Advertising router      |
| <i>advid</i>          | (Optional) Advertising router ID                       |
| adv-router-name       | (Optional) Restrict display by Advertising router name |
| <i>adv-name</i>       | (Optional) DNS Name of the Advertising router          |
| area                  | (Optional) Display only LSA's in this area             |
| <i>area-id-ip</i>     | (Optional) Area Id as an integer or ip address         |
| ext_tag               | (Optional) Restrict display by tag                     |
| <i>tag_val</i>        | (Optional) 32-bit tag value                            |
| type                  | (Optional) Opaque type                                 |
| router-information    | (Optional) Router Information (RI) Opaque LSA          |
| ext-prefix            | (Optional) Extended Prefix Opaque LSA                  |
| ext-link              | (Optional) Extended Link Opaque LSA                    |
| detail                | Display LSA in detail                                  |
| private               | (Optional) Developer-only statistics                   |
| <i>__readonly__</i>   | (Optional)   |
| TABLE_ctx             | (Optional)   |
| <i>rid</i>            | (Optional)   |
| <i>ptag</i>           | (Optional)   |
| <i>cname</i>          | (Optional)   |
| TABLE_db2_lsa         | (Optional)   |
| <i>name</i>           | (Optional)   |
| <i>area</i>           | (Optional)   |
| <i>rtr_max_metric</i> | (Optional)   |



|                           |            |
|---------------------------|------------|
| TABLE_lsdb                | (Optional) |
| <i>age</i>                | (Optional) |
| <i>maxage</i>             | (Optional) |
| <i>options</i>            | (Optional) |
| <i>options_str</i>        | (Optional) |
| <i>wrapping</i>           | (Optional) |
| <i>dummy</i>              | (Optional) |
| <i>flush_pending</i>      | (Optional) |
| <i>type</i>               | (Optional) |
| <i>id</i>                 | (Optional) |
| <i>id_str</i>             | (Optional) |
| <i>opaque_type</i>        | (Optional) |
| <i>opaque_type_str</i>    | (Optional) |
| <i>opaque_id</i>          | (Optional) |
| <i>prefix</i>             | (Optional) |
| <i>prefix_mask</i>        | (Optional) |
| <i>srgb_base</i>          | (Optional) |
| <i>srgb_range</i>         | (Optional) |
| <i>advrtr</i>             | (Optional) |
| <i>seqno</i>              | (Optional) |
| <i>cksum</i>              | (Optional) |
| <i>len</i>                | (Optional) |
| <i>corrupt</i>            | (Optional) |
| <i>rtr_abr</i>            | (Optional) |
| <i>rtr_asbr</i>           | (Optional) |
| <i>rtr_translate</i>      | (Optional) |
| <i>rtr_vlink_end</i>      | (Optional) |
| <i>rtr_num_links</i>      | (Optional) |
| <i>rtr_links_mismatch</i> | (Optional) |

|                              |            |
|------------------------------|------------|
| TABLE_rlsa                   | (Optional) |
| <i>rtr_link_type</i>         | (Optional) |
| <i>rtr_link_id_str</i>       | (Optional) |
| <i>rtr_link_id</i>           | (Optional) |
| <i>rtr_link_data_str</i>     | (Optional) |
| <i>rtr_link_data</i>         | (Optional) |
| <i>rtr_link_num_tos</i>      | (Optional) |
| <i>rtr_link_metric</i>       | (Optional) |
| TABLE_rlinktos               | (Optional) |
| <i>rtr_link_tos_id</i>       | (Optional) |
| <i>rtr_link_tos_metric</i>   | (Optional) |
| <i>net_mask</i>              | (Optional) |
| TABLE_netlsa                 | (Optional) |
| <i>net_rtr</i>               | (Optional) |
| <i>sum_mask</i>              | (Optional) |
| <i>sum_metric</i>            | (Optional) |
| TABLE_sumlsa                 | (Optional) |
| <i>sum_tos_id</i>            | (Optional) |
| <i>sum_tos_metric</i>        | (Optional) |
| <i>nssa_mask</i>             | (Optional) |
| <i>nssa_metric_type2</i>     | (Optional) |
| <i>nssa_metric</i>           | (Optional) |
| <i>nssa_fwd_addr</i>         | (Optional) |
| <i>nssa_tag</i>              | (Optional) |
| TABLE_nssa                   | (Optional) |
| <i>nssa_tos_metric_type2</i> | (Optional) |
| <i>nssa_tos_id</i>           | (Optional) |
| <i>nssa_tos_metric</i>       | (Optional) |
| <i>nssa_tos_fwd_addr</i>     | (Optional) |

|                               |            |
|-------------------------------|------------|
| <i>nssa_tos_tag</i>           | (Optional) |
| <i>asext_mask</i>             | (Optional) |
| <i>asext_metric_type2</i>     | (Optional) |
| <i>asext_metric</i>           | (Optional) |
| <i>asext_fwd_addr</i>         | (Optional) |
| <i>asext_tag</i>              | (Optional) |
| TABLE_asext                   | (Optional) |
| <i>asext_tos_metric_type2</i> | (Optional) |
| <i>asext_tos_id</i>           | (Optional) |
| <i>asext_tos_metric</i>       | (Optional) |
| <i>asext_tos_fwd_addr</i>     | (Optional) |
| <i>asext_tos_tag</i>          | (Optional) |
| <i>opaque_link_intf</i>       | (Optional) |
| <i>opaque_unknown</i>         | (Optional) |
| <i>opaque_data_len</i>        | (Optional) |
| <i>opaque_data</i>            | (Optional) |
| <i>opaque_corrupt</i>         | (Optional) |
| <i>tlv_type</i>               | (Optional) |
| <i>tlv_len</i>                | (Optional) |
| <i>tlv_data</i>               | (Optional) |
| <i>tlv_unknown</i>            | (Optional) |
| <i>gr_interval</i>            | (Optional) |
| <i>gr_reason</i>              | (Optional) |
| <i>gr_addr</i>                | (Optional) |
| <i>te_frag_id</i>             | (Optional) |
| <i>te_rtr_id</i>              | (Optional) |
| <i>te_link_type</i>           | (Optional) |
| <i>te_link_id</i>             | (Optional) |
| <i>te_link_metric</i>         | (Optional) |

|                         |            |
|-------------------------|------------|
| <i>te_link_max_bw</i>   | (Optional) |
| <i>te_link_rsv_bw</i>   | (Optional) |
| <i>te_link_unrsv_bw</i> | (Optional) |
| <i>te_link_admin</i>    | (Optional) |
| <i>te_num_links</i>     | (Optional) |

**Command Mode**

- /exec

# show ip ospf interface

```
show ip ospf [ <tag> ] interface [ <interface> | vrf { <vrf-name> | <vrf-known-name> | all } ] [ private ] [
__readonly__ TABLE_ctx <ptag> <cname> [ TABLE_intf <ifname> <admin_status> <proto_status> [
<unnumbered> ] <addr> [ <masklen> ] [ <parent_intf> ] <area> [ <if_cfg> ] <state_str> <type_str> <cost>
[ <bfd_enabled> ] [ <ldp_sync> ] [ <dc_enabled> ] [ <sid_index> ] [ <sid_n_flag_clear> ] [ <sid_exp_null>
] <index> [ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority> ] [ <dr_rid> ] [ <dr_addr> ] [ <bdr_rid>
] [ <bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adj> ] [ <gr_nbr> ] [ <hello_interval> ] [
<dead_interval> ] [ <wait_interval> ] [ <rxmt_interval> ] [ <hello_timer> ] [ <wait_timer> ] [ <lsu_timer> ]
[ <lsack_timer> ] [ <auth_type> ] [ <keychain_name> ] [ <keychain_ready> ] [ <auth_md5_keyid> ] [
<auth_keyid> ] [ <auth_algo> ] [ <link_lsa_cnt> ] [ <link_lsa_crc> ] [ <multi_area_cnt> ] [ <multi_area_adj>
] ] ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| ospf                  | Display OSPF status and configuration       |
| <i>tag</i>            | (Optional) Process tag                      |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| interface             | OSPF enabled interface                      |
| <i>interface</i>      | (Optional) OSPF enabled interface           |
| private               | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_ctx             | (Optional)                                  |
| <i>ptag</i>           | (Optional)                                  |
| <i>cname</i>          | (Optional)                                  |
| TABLE_intf            | (Optional)                                  |
| <i>ifname</i>         | (Optional)                                  |
| <i>admin_status</i>   | (Optional)                                  |
| <i>proto_status</i>   | (Optional)                                  |
| <i>unnumbered</i>     | (Optional)                                  |

|                         |            |
|-------------------------|------------|
| <i>addr</i>             | (Optional) |
| <i>masklen</i>          | (Optional) |
| <i>parent_intf</i>      | (Optional) |
| <i>area</i>             | (Optional) |
| <i>if_cfg</i>           | (Optional) |
| <i>state_str</i>        | (Optional) |
| <i>type_str</i>         | (Optional) |
| <i>cost</i>             | (Optional) |
| <i>bfd_enabled</i>      | (Optional) |
| <i>ldp_sync</i>         | (Optional) |
| <i>dc_enabled</i>       | (Optional) |
| <i>sid_index</i>        | (Optional) |
| <i>sid_n_flag_clear</i> | (Optional) |
| <i>sid_exp_null</i>     | (Optional) |
| <i>index</i>            | (Optional) |
| <i>passive</i>          | (Optional) |
| <i>mpls</i>             | (Optional) |
| <i>transmit_delay</i>   | (Optional) |
| <i>if_priority</i>      | (Optional) |
| <i>dr_rid</i>           | (Optional) |
| <i>dr_addr</i>          | (Optional) |
| <i>bdr_rid</i>          | (Optional) |
| <i>bdr_addr</i>         | (Optional) |
| <i>nbr_total</i>        | (Optional) |
| <i>nbr_flood</i>        | (Optional) |
| <i>nbr_adj</i>          | (Optional) |
| <i>gr_nbr</i>           | (Optional) |
| <i>hello_interval</i>   | (Optional) |
| <i>dead_interval</i>    | (Optional) |

|                       |            |
|-----------------------|------------|
| <i>wait_interval</i>  | (Optional) |
| <i>rxmt_interval</i>  | (Optional) |
| <i>hello_timer</i>    | (Optional) |
| <i>wait_timer</i>     | (Optional) |
| <i>lsu_timer</i>      | (Optional) |
| <i>lsack_timer</i>    | (Optional) |
| <i>auth_type</i>      | (Optional) |
| <i>keychain_name</i>  | (Optional) |
| <i>keychain_ready</i> | (Optional) |
| <i>auth_md5_keyid</i> | (Optional) |
| <i>auth_keyid</i>     | (Optional) |
| <i>auth_algo</i>      | (Optional) |
| <i>link_lsa_cnt</i>   | (Optional) |
| <i>link_lsa_crc</i>   | (Optional) |
| <i>multi_area_cnt</i> | (Optional) |
| <i>multi_area_adj</i> | (Optional) |

**Command Mode**

- /exec

## show ip ospf interface brief

```
show ip ospf [ <tag> ] interface brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> <intf_count> TABLE_intf <ifname> <index> <area> <cost> <state_str>
<nbr_total> <admin_status> ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| ospf                  | Display OSPF status and configuration       |
| <i>tag</i>            | (Optional) Process tag                      |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| interface             | OSPF enabled interface                      |
| brief                 | Display summary of OSPF interfaces          |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_ctx             | (Optional)                                  |
| <i>ptag</i>           | (Optional)                                  |
| <i>cname</i>          | (Optional)                                  |
| <i>intf_count</i>     | (Optional)                                  |
| TABLE_intf            | (Optional)                                  |
| <i>ifname</i>         | (Optional)                                  |
| <i>index</i>          | (Optional)                                  |
| <i>area</i>           | (Optional)                                  |
| <i>cost</i>           | (Optional)                                  |
| <i>state_str</i>      | (Optional)                                  |
| <i>nbr_total</i>      | (Optional)                                  |
| <i>admin_status</i>   | (Optional)                                  |

### Command Mode



- /exec



- /exec

## show ip ospf neighbors

```
show ip ospf [ <tag> ] neighbors [ { { <interface> [ <neighbor> | <neighbor-name> ] } | { [ <neighbor> |
<neighbor-name> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] } } ] [ __readonly__ TABLE_ctx <ptag>
<cname> <nbrcount> [ TABLE_nbr <rid> <priority> <state> <drstate> <uptime> <addr> <intf> [ <multiarea>
] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| ospf                  | Display OSPF status and configuration       |
| <i>tag</i>            | (Optional) Process tag                      |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| neighbors             | Neighbor list                               |
| <i>interface</i>      | (Optional) OSPF enabled interface           |
| <i>neighbor</i>       | (Optional) Router ID of neighbor            |
| <i>neighbor-name</i>  | (Optional) DNS Name of the neighbor         |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_ctx             | (Optional)                                  |
| <i>ptag</i>           | (Optional)                                  |
| <i>cname</i>          | (Optional)                                  |
| <i>nbrcount</i>       | (Optional)                                  |
| TABLE_nbr             | (Optional)                                  |
| <i>rid</i>            | (Optional)                                  |
| <i>priority</i>       | (Optional)                                  |
| <i>state</i>          | (Optional)                                  |
| <i>drstate</i>        | (Optional)                                  |
| <i>uptime</i>         | (Optional)                                  |

|                  |            |
|------------------|------------|
| <i>addr</i>      | (Optional) |
| <i>intf</i>      | (Optional) |
| <i>multiarea</i> | (Optional) |

**Command Mode**

- /exec

## show ip ospf neighbors detail

```
show ip ospf [ <tag> ] neighbors [ <interface> ] [ <neighbor> | <neighbor-name> ] detail [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ private ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_nbr <rid>
<addr> <area> <intf> <state> <transition> <lastchange> [ <bfd_state> ] [ <priority> ] [ <ifid> ] [ <dr> ] [
<dc> ] [ <bdr> ] [ <master> ] [ <seqno> ] [ <dbdallsentacked> ] [ <dbdallsent> ] [ <dbdallacked> ] [
<lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts> ] <helloptions> <dbdoptions> <lastnonhello> [ <deadtimer>
] [ <pacingtimer> ] [ <dbdrxmtimer> ] [ <reqrxmtimer> ] [ <lsutimer> ] [ <rerxmtimer> ] [ <fastrerxmtimer>
] [ <lsacktimer> ] [ <grtimer> ] [ <helpermode> ] [ <helpercand> ] [ <helperterm> ] [ <senddbd> ] [ <sendlsreq>
] [ <sendlsu> ] [ <sendlsurxmt> ] [ <sendlsack> ] [ <sendlsreqreply> ] [ <sradsid> ] [ <sradjflags> ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| ospf                  | Display OSPF status and configuration       |
| <i>tag</i>            | (Optional) Process tag                      |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| neighbors             | Neighbor list                               |
| <i>interface</i>      | (Optional) OSPF enabled interface           |
| <i>neighbor</i>       | (Optional) Router ID of neighbor            |
| <i>neighbor-name</i>  | (Optional) DNS Name of the neighbor         |
| detail                | Show detailed neighbor display              |
| private               | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| __readonly__          | (Optional)                                  |
| TABLE_ctx             | (Optional)                                  |
| <i>ptag</i>           | (Optional)                                  |
| <i>cname</i>          | (Optional)                                  |
| TABLE_nbr             | (Optional)                                  |
| <i>rid</i>            | (Optional)                                  |
| <i>addr</i>           | (Optional)                                  |

|                        |            |
|------------------------|------------|
| <i>area</i>            | (Optional) |
| <i>intf</i>            | (Optional) |
| <i>state</i>           | (Optional) |
| <i>transition</i>      | (Optional) |
| <i>lastchange</i>      | (Optional) |
| <i>bfd_state</i>       | (Optional) |
| <i>priority</i>        | (Optional) |
| <i>ifid</i>            | (Optional) |
| <i>dr</i>              | (Optional) |
| <i>bdr</i>             | (Optional) |
| <i>master</i>          | (Optional) |
| <i>seqno</i>           | (Optional) |
| <i>dbdallsentacked</i> | (Optional) |
| <i>dbdallsent</i>      | (Optional) |
| <i>dbdallacked</i>     | (Optional) |
| <i>lsaonreqlist</i>    | (Optional) |
| <i>lsafromlastreq</i>  | (Optional) |
| <i>lsreqrxmts</i>      | (Optional) |
| <i>helloptions</i>     | (Optional) |
| <i>dbdoptions</i>      | (Optional) |
| <i>lastmonhello</i>    | (Optional) |
| <i>deadtimer</i>       | (Optional) |
| <i>paddingtimer</i>    | (Optional) |
| <i>dbdrxmtimer</i>     | (Optional) |
| <i>reqrxmtimer</i>     | (Optional) |
| <i>lsutimer</i>        | (Optional) |
| <i>rerxmtimer</i>      | (Optional) |
| <i>fastrerxmtimer</i>  | (Optional) |
| <i>lsacktimer</i>      | (Optional) |

|                       |            |
|-----------------------|------------|
| <i>grtimer</i>        | (Optional) |
| <i>helpermode</i>     | (Optional) |
| <i>helpercand</i>     | (Optional) |
| <i>helperterm</i>     | (Optional) |
| <i>senddbd</i>        | (Optional) |
| <i>sendlsreq</i>      | (Optional) |
| <i>sendlsu</i>        | (Optional) |
| <i>sendlsurxmt</i>    | (Optional) |
| <i>sendlsack</i>      | (Optional) |
| <i>sendlsreqreply</i> | (Optional) |
| <i>dc</i>             | (Optional) |
| <i>sradjsid</i>       | (Optional) |
| <i>sradjflags</i>     | (Optional) |

**Command Mode**

- /exec



# show ip ospf neighbors summary

```
show ip ospf [ <tag> ] neighbors [ <interface> ] summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_ctx <ptag> <cname> TABLE_intf { <ifname> | <total> } <down> <attempt> <init>
<twoway> <exstart> <exchange> <loading> <full> <if_total> ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| ospf                  | Display OSPF status and configuration       |
| <i>tag</i>            | (Optional) Process tag                      |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| neighbors             | Neighbor list                               |
| <i>interface</i>      | (Optional) OSPF enabled interface           |
| summary               | Summary of neighbors                        |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_ctx             | (Optional)                                  |
| <i>ptag</i>           | (Optional)                                  |
| <i>cname</i>          | (Optional)                                  |
| TABLE_intf            | (Optional)                                  |
| <i>ifname</i>         | (Optional)                                  |
| <i>total</i>          | (Optional)                                  |
| <i>down</i>           | (Optional)                                  |
| <i>attempt</i>        | (Optional)                                  |
| <i>init</i>           | (Optional)                                  |
| <i>twoway</i>         | (Optional)                                  |
| <i>exstart</i>        | (Optional)                                  |
| <i>exchange</i>       | (Optional)                                  |

|                 |            |
|-----------------|------------|
| <i>loading</i>  | (Optional) |
| <i>full</i>     | (Optional) |
| <i>if_total</i> | (Optional) |

**Command Mode**

- /exec



**Command Mode**

- /exec



|            |            |
|------------|------------|
| <i>age</i> | (Optional) |
|------------|------------|

**Command Mode**

- /exec

## show ip ospf route

```
show ip ospf [ <tag> ] route [ <ip-addr> | <ip-prefix> [ longer-prefixes ] ] [ detail ] [ all_routes ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ <hdr_addr> ] [
<hdr_masklen> ] [ TABLE_route <addr> <masklen> <type> [ <in_ulib> ] <in_rib> <direct> [ <area> ] [
<tag> ] [ <sid> ] [ <in_label> ] [ <vlink_unresolved> ] [ TABLE_route_ubest_nh [ <ubest_nh_addr> ] [
<ubest_nh_intf> ] [ <ubest_cost> ] [ <distance> ] [ <ubest_nh_direct> ] [ <ubest_nh_sham_link> ] [
<ubest_nh_te_tun> ] [ <ubest_nh_in_rib> ] [ <out_label> ] [ <lsa> ] ] [ TABLE_route_mbest_nh [
<mbest_nh_addr> ] [ <mbest_nh_intf> ] [ <mbest_cost> ] [ <mbest_nh_direct> ] [ <mbest_nh_in_rib> ] ] ]
]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                      |
| ip                    | Display IP information                               |
| ospf                  | Display OSPF status and configuration                |
| <i>tag</i>            | (Optional) Process tag                               |
| vrf                   | (Optional) Display per-VRF information               |
| <i>vrf-name</i>       | (Optional) VRF name                                  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                            |
| all                   | (Optional) Display information for all VRFs          |
| route                 | Internal OSPF routes                                 |
| <i>ip-addr</i>        | (Optional) Show single OSPF route                    |
| <i>ip-prefix</i>      | (Optional) Show single exact match OSPF route        |
| longer-prefixes       | (Optional) Show exact match and more specific routes |
| detail                | (Optional) Detailed information                      |
| all_routes            | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED            |
| <i>tag</i>            | (Optional)   |
| <i>__readonly__</i>   | (Optional)   |
| TABLE_ctx             | (Optional)   |
| <i>ptag</i>           | (Optional)   |
| <i>cname</i>          | (Optional)   |
| <i>hdr_addr</i>       | (Optional)   |
| <i>hdr_masklen</i>    | (Optional)   |

|                           |            |
|---------------------------|------------|
| TABLE_route               | (Optional) |
| <i>addr</i>               | (Optional) |
| <i>masklen</i>            | (Optional) |
| <i>type</i>               | (Optional) |
| <i>in_ulib</i>            | (Optional) |
| <i>in_rib</i>             | (Optional) |
| <i>direct</i>             | (Optional) |
| <i>area</i>               | (Optional) |
| <i>sid</i>                | (Optional) |
| <i>in_label</i>           | (Optional) |
| <i>vlink_unresolved</i>   | (Optional) |
| TABLE_route_ubest_nh      | (Optional) |
| <i>ubest_nh_addr</i>      | (Optional) |
| <i>ubest_nh_intf</i>      | (Optional) |
| <i>ubest_cost</i>         | (Optional) |
| <i>distance</i>           | (Optional) |
| <i>ubest_nh_direct</i>    | (Optional) |
| <i>ubest_nh_sham_link</i> | (Optional) |
| <i>ubest_nh_te_tun</i>    | (Optional) |
| <i>ubest_nh_in_rib</i>    | (Optional) |
| <i>out_label</i>          | (Optional) |
| <i>lsa</i>                | (Optional) |
| TABLE_route_mbest_nh      | (Optional) |
| <i>mbest_nh_addr</i>      | (Optional) |
| <i>mbest_nh_intf</i>      | (Optional) |
| <i>mbest_cost</i>         | (Optional) |
| <i>mbest_nh_direct</i>    | (Optional) |
| <i>mbest_nh_in_rib</i>    | (Optional) |

**Command Mode**



- /exec

## show ip ospf route summary

```
show ip ospf [ <tag> ] route [ <ip-prefix> [ longer-prefixes ] ] summary [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_route <total_routes> <total_paths> [
TABLE_route_type <path_type> <path_routes> <path_paths> ] [ TABLE_route_masklen <masklen>
<masklen_routes> <masklen_paths> ] ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                      |
| ip                    | Display IP information                               |
| ospf                  | Display OSPF status and configuration                |
| <i>tag</i>            | (Optional) Process tag                               |
| vrf                   | (Optional) Display per-VRF information               |
| <i>vrf-name</i>       | (Optional) VRF name                                  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                            |
| all                   | (Optional) Display information for all VRFs          |
| route                 | Internal OSPF routes                                 |
| <i>ip-prefix</i>      | (Optional) Show single exact match OSPF route        |
| longer-prefixes       | (Optional) Show exact match and more specific routes |
| summary               | Show route counts                                    |
| <i>__readonly__</i>   | (Optional)   |
| TABLE_ctx             | (Optional)   |
| <i>ptag</i>           | (Optional)   |
| <i>cname</i>          | (Optional)   |
| TABLE_route           | (Optional)   |
| <i>total_routes</i>   | (Optional)   |
| <i>total_paths</i>    | (Optional)   |
| TABLE_route_type      | (Optional)   |
| <i>path_type</i>      | (Optional)   |
| <i>path_routes</i>    | (Optional)   |
| <i>path_paths</i>     | (Optional)   |

|                       |            |
|-----------------------|------------|
| TABLE_route_masklen   | (Optional) |
| <i>masklen</i>        | (Optional) |
| <i>masklen_routes</i> | (Optional) |
| <i>masklen_paths</i>  | (Optional) |

**Command Mode**

- /exec

## show ip ospf segment-routing adj-sid-database

```
show ip ospf [ <tag> ] segment-routing adj-sid-database [ detail ] [ __readonly__ TABLE_ctx <rid> <ptag>
<cname> [ { TABLE_segrt_adj_sid_db <sid_val> <nbr_id> <nbr_addr> <intf> [ <flags> ] [ <lsa> } ] ] ]
```

### Syntax Description

|                        |                                       |
|------------------------|---------------------------------------|
| show                   | Show running system information       |
| ip                     | Display IP information                |
| ospf                   | Display OSPF status and configuration |
| <i>tag</i>             | (Optional) Process tag                |
| segment-routing        | Segment-Routing information           |
| adj-sid-database       | Adjacency SID Database                |
| detail                 | (Optional) Detailed Information       |
| <i>__readonly__</i>    | (Optional)                            |
| TABLE_ctx              | (Optional)                            |
| <i>rid</i>             | (Optional)                            |
| <i>ptag</i>            | (Optional)                            |
| <i>cname</i>           | (Optional)                            |
| TABLE_segrt_adj_sid_db | (Optional)                            |
| <i>sid_val</i>         | (Optional)                            |
| <i>nbr_id</i>          | (Optional)                            |
| <i>nbr_addr</i>        | (Optional)                            |
| <i>intf</i>            | (Optional)                            |
| <i>flags</i>           | (Optional)                            |
| <i>lsa</i>             | (Optional)                            |

### Command Mode

- /exec

# show ip ospf segment-routing global-block

```
show ip ospf [ <tag> ] segment-routing global-block [ <adv-rtr> ] [ detail ] [ __readonly__ TABLE_ctx <rid>
<ptag> <cname> [ { TABLE_segrt_global_block <area> <adv_router_id> <SR_capable> <SR_algo>
<SRGB_base> <SRGB_range> [ <ril_area> ] [ <lsa> } ] ] ]
```

## Syntax Description

|                          |                                       |
|--------------------------|---------------------------------------|
| show                     | Show running system information       |
| ip                       | Display IP information                |
| ospf                     | Display OSPF status and configuration |
| <i>tag</i>               | (Optional) Process tag                |
| segment-routing          | Segment-Routing information           |
| global-block             | Global Block                          |
| <i>adv-rtr</i>           | (Optional) Advertising Router ID      |
| detail                   | (Optional) Detailed Information       |
| <i>__readonly__</i>      | (Optional)                            |
| TABLE_ctx                | (Optional)                            |
| <i>rid</i>               | (Optional)                            |
| <i>ptag</i>              | (Optional)                            |
| <i>cname</i>             | (Optional)                            |
| TABLE_segrt_global_block | (Optional)                            |
| <i>adv_router_id</i>     | (Optional)                            |
| <i>SR_capable</i>        | (Optional)                            |
| <i>SR_algo</i>           | (Optional)                            |
| <i>SRGB_base</i>         | (Optional)                            |
| <i>SRGB_range</i>        | (Optional)                            |
| <i>area</i>              | (Optional)                            |
| <i>ril_area</i>          | (Optional)                            |
| <i>lsa</i>               | (Optional)                            |

## Command Mode

- /exec

## show ip ospf segment-routing sid-database

```
show ip ospf [ <tag> ] segment-routing sid-database [ <sid-id> ] [ detail ] [ __readonly__ TABLE_ctx <rid>
<ptag> <cname> [ { TABLE_segrt_sid_db <sid_val> <prefix> <prefix_mask> <own_prefix> [
<adv_rtr_vtx_reachable> ] [ <sid_conflict> ] [ <area> ] [ <route_type> ] [ <pfx_flags> ] [ <sid_flags> ] [
<lsa> ] [ <lsa_ref_count> } } ] ]
```

### Syntax Description

|                              |                                       |
|------------------------------|---------------------------------------|
| show                         | Show running system information       |
| ip                           | Display IP information                |
| ospf                         | Display OSPF status and configuration |
| <i>tag</i>                   | (Optional) Process tag                |
| segment-routing              | Segment-Routing information           |
| sid-database                 | SID Database                          |
| <i>sid-id</i>                | (Optional) SID value                  |
| detail                       | (Optional) Detailed Information       |
| <i>__readonly__</i>          | (Optional)                            |
| TABLE_ctx                    | (Optional)                            |
| <i>rid</i>                   | (Optional)                            |
| <i>ptag</i>                  | (Optional)                            |
| <i>cname</i>                 | (Optional)                            |
| TABLE_segrt_sid_db           | (Optional)                            |
| <i>sid_val</i>               | (Optional)                            |
| <i>prefix</i>                | (Optional)                            |
| <i>prefix_mask</i>           | (Optional)                            |
| <i>own_prefix</i>            | (Optional)                            |
| <i>adv_rtr_vtx_reachable</i> | (Optional)                            |
| <i>sid_conflict</i>          | (Optional)                            |
| <i>area</i>                  | (Optional)                            |
| <i>route_type</i>            | (Optional)                            |
| <i>pfx_flags</i>             | (Optional)                            |

|                      |            |
|----------------------|------------|
| <i>sid_flags</i>     | (Optional) |
| <i>lsa</i>           | (Optional) |
| <i>lsa_ref_count</i> | (Optional) |

**Command Mode**

- /exec

## show ip ospf sham-links

```
show ip ospf [ <tag> ] sham-links [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ TABLE_slink <name> <if_state> [ <unnumbered> ] <addr> [ <masklen> ] [ <parent_intf>
] <area> [ <if_cfg> ] <state_str> <type_str> <cost> [ <bfd_enabled> ] [ <ldp_sync> ] [ <dc_enabled> ] [
<sid_index> <sid_n_flag_clear> <sid_exp_null> ] <index> [ [ <passive> ] [ <mpls> ] [ <transmit_delay> ]
[ <if_priority> ] [ <dr_rid> <dr_addr> ] [ <bdr_rid> <bdr_addr> ] ] <nbr_total> <nbr_flood> <nbr_adj> [
<gr_nbr> ] <hello_interval> <dead_interval> <wait_interval> <rxmt_interval> [ <hello_timer> ] [ <wait_timer>
] [ <lsu_timer> ] [ <lsack_timer> ] <auth_type> [ <keychain_name> <keychain_ready> ] [ <auth_md5_keyid>
] [ <auth_keyid> <auth_algo> ] <link_lsa_cnt> <link_lsa_crc> ] [ <dest_ip> ] [ TABLE_nbr <rid> <addr>
<area> <intf> <state> <transition> <lastchange> [ <bfd_state> ] [ <priority> [ <ifid> ] [ <dr> ] [ <bdr> ] ] [
<master> <seqno> <dbdallsentacked> <dbdallsent> <dbdallacked> ] [ <lsaonreqlist> <lsafromlastreq>
<lsreqrxmts> ] <helloptions> <dbdoptions> <lastnonhello> [ <deadtimer> ] [ <pacingt看ner> ] [ <dbdrxtimer>
] [ <reqrxtimer> ] [ <lsutimer> ] [ <rerxtimer> ] [ <fastrerxtimer> ] [ <lsacktimer> ] [ <grtimer> ] [
<helpermode> ] [ <helpercand> ] [ <helperterm> ] [ <senddbd> ] [ <sendlsreq> ] [ <sendlsu> ] [ <sendlsurxmt>
] [ <sendlsack> ] [ <sendlsreqreply> ] ] ] ] ]
```

### Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information             |
| ip             | Display IP information                      |
| ospf           | Display OSPF status and configuration       |
| tag            | (Optional) Process tag                      |
| vrf            | (Optional) Display per-VRF information      |
| vrf-name       | (Optional) VRF name                         |
| vrf-known-name | (Optional) Known VRF name                   |
| all            | (Optional) Display information for all VRFs |
| sham-links     | Sham link information                       |
| __readonly__   | (Optional)                                  |
| TABLE_ctx      | (Optional)                                  |
| ptag           | (Optional)                                  |
| cname          | (Optional)                                  |
| TABLE_slink    | (Optional)                                  |
| name           | (Optional)                                  |
| if_state       | (Optional)                                  |
| unnumbered     | (Optional)                                  |
| addr           | (Optional)                                  |



|                         |            |
|-------------------------|------------|
| <i>masklen</i>          | (Optional) |
| <i>parent_intf</i>      | (Optional) |
| <i>area</i>             | (Optional) |
| <i>if_cfg</i>           | (Optional) |
| <i>state_str</i>        | (Optional) |
| <i>type_str</i>         | (Optional) |
| <i>cost</i>             | (Optional) |
| <i>bfd_enabled</i>      | (Optional) |
| <i>ldp_sync</i>         | (Optional) |
| <i>dc_enabled</i>       | (Optional) |
| <i>sid_index</i>        | (Optional) |
| <i>sid_n_flag_clear</i> | (Optional) |
| <i>sid_exp_null</i>     | (Optional) |
| <i>index</i>            | (Optional) |
| <i>passive</i>          | (Optional) |
| <i>mpls</i>             | (Optional) |
| <i>transmit_delay</i>   | (Optional) |
| <i>if_priority</i>      | (Optional) |
| <i>dr_rid</i>           | (Optional) |
| <i>dr_addr</i>          | (Optional) |
| <i>bdr_rid</i>          | (Optional) |
| <i>bdr_addr</i>         | (Optional) |
| <i>nbr_total</i>        | (Optional) |
| <i>nbr_flood</i>        | (Optional) |
| <i>nbr_adj</i>          | (Optional) |
| <i>gr_nbr</i>           | (Optional) |
| <i>hello_interval</i>   | (Optional) |
| <i>dead_interval</i>    | (Optional) |
| <i>wait_interval</i>    | (Optional) |

|                       |            |
|-----------------------|------------|
| <i>rxmt_interval</i>  | (Optional) |
| <i>hello_timer</i>    | (Optional) |
| <i>wait_timer</i>     | (Optional) |
| <i>lsu_timer</i>      | (Optional) |
| <i>lsack_timer</i>    | (Optional) |
| <i>auth_type</i>      | (Optional) |
| <i>keychain_name</i>  | (Optional) |
| <i>keychain_ready</i> | (Optional) |
| <i>auth_md5_keyid</i> | (Optional) |
| <i>auth_keyid</i>     | (Optional) |
| <i>auth_algo</i>      | (Optional) |
| <i>link_lsa_cnt</i>   | (Optional) |
| <i>link_lsa_crc</i>   | (Optional) |
| <i>dest_ip</i>        | (Optional) |
| TABLE_nbr             | (Optional) |
| <i>rid</i>            | (Optional) |
| <i>addr</i>           | (Optional) |
| <i>area</i>           | (Optional) |
| <i>intf</i>           | (Optional) |
| <i>state</i>          | (Optional) |
| <i>transition</i>     | (Optional) |
| <i>lastchange</i>     | (Optional) |
| <i>bfd_state</i>      | (Optional) |
| <i>priority</i>       | (Optional) |
| <i>ifid</i>           | (Optional) |
| <i>dr</i>             | (Optional) |
| <i>bdr</i>            | (Optional) |
| <i>master</i>         | (Optional) |
| <i>seqno</i>          | (Optional) |

|                        |            |
|------------------------|------------|
| <i>dbdallsentacked</i> | (Optional) |
| <i>dbdallsent</i>      | (Optional) |
| <i>dbdallacked</i>     | (Optional) |
| <i>lsaonreqlist</i>    | (Optional) |
| <i>lsafromlastreq</i>  | (Optional) |
| <i>lsreqrxmts</i>      | (Optional) |
| <i>helloptions</i>     | (Optional) |
| <i>dbdoptions</i>      | (Optional) |
| <i>lastnonhello</i>    | (Optional) |
| <i>deadtimer</i>       | (Optional) |
| <i>pacingtimer</i>     | (Optional) |
| <i>dbdrxmtimer</i>     | (Optional) |
| <i>reqrxmtimer</i>     | (Optional) |
| <i>lsutimer</i>        | (Optional) |
| <i>rerxmtimer</i>      | (Optional) |
| <i>fastrerxmtimer</i>  | (Optional) |
| <i>lsacktimer</i>      | (Optional) |
| <i>grtimer</i>         | (Optional) |
| <i>helpermode</i>      | (Optional) |
| <i>helpercand</i>      | (Optional) |
| <i>helperterm</i>      | (Optional) |
| <i>senddbd</i>         | (Optional) |
| <i>sendlsreq</i>       | (Optional) |
| <i>sendlsu</i>         | (Optional) |
| <i>sendlsurxmt</i>     | (Optional) |
| <i>sendlsack</i>       | (Optional) |
| <i>sendlsreqreply</i>  | (Optional) |

**Command Mode**

- /exec

## show ip ospf sham-links brief

```
show ip ospf [ <tag> ] sham-links brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> <count> [ TABLE_slink <src_ip> <dest_ip> <ifnum> <area> <cost> <if_state>
]]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| ospf                  | Display OSPF status and configuration       |
| <i>tag</i>            | (Optional) Process tag                      |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| sham-links            | Sham link information                       |
| brief                 | Display summary of OSPF sham links          |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_ctx             | (Optional)                                  |
| <i>ptag</i>           | (Optional)                                  |
| <i>cname</i>          | (Optional)                                  |
| <i>count</i>          | (Optional)                                  |
| TABLE_slink           | (Optional)                                  |
| <i>src_ip</i>         | (Optional)                                  |
| <i>dest_ip</i>        | (Optional)                                  |
| <i>ifnum</i>          | (Optional)                                  |
| <i>area</i>           | (Optional)                                  |
| <i>cost</i>           | (Optional)                                  |
| <i>if_state</i>       | (Optional)                                  |

### Command Mode

- /exec

## show ip ospf statistics

```
show ip ospf [ <tag> ] statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_stats
<ptag> <cname> <last_clear> <rid_change> <dr_elections> <older_lsa_recv> <nbr_state_change>
<nbr_dead_postpone> <nbr_dead_expire> <nbr_bad_lsreq> <nbr_seqno_mismatch> <spf_full>
<spf_summary> <spf_external> <spf_extsummary> <rtr_generate> <rtr_refresh> <rtr_flush> <rtr_other_flush>
<net_generate> <net_refresh> <net_flush> <net_other_flush> <sum_generate> <sum_refresh> <sum_flush>
<sum_other_flush> <asbr_generate> <asbr_refresh> <asbr_flush> <asbr_other_flush> <asext_generate>
<asext_refresh> <asext_flush> <asext_other_flush> <opaque_link_generate> <opaque_link_refresh>
<opaque_link_flush> <opaque_link_other_flush> <opaque_area_generate> <opaque_area_refresh>
<opaque_area_flush> <opaque_area_other_flush> <opaque_as_generate> <opaque_as_refresh>
<opaque_as_flush> <opaque_as_other_flush> <limbo_lsa_count> <limbo_lsa_hwm> <limbo_lsa_deleted>
<limbo_lsa_revived> <limbo_runs> <limbo_lsa_last_time_hwm> [ <limbo_timer> ] <helloq_size>
<helloq_max_size> <helloq_hwm> <helloq_drops> <helloq_last_hwm_time> <floodq_size>
<floodq_max_size> <floodq_hwm> <floodq_drops> <floodq_last_hwm_time> <lsdb_add_fail> [
TABLE_buffer_detail [ <buf_size> ] [ <buf_size_huge> ] <buf_in_use> <buf_hwm> <buf_perm> <buf_alloc>
<buf_free> ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| ospf                  | Display OSPF status and configuration       |
| <i>tag</i>            | (Optional) Process tag                      |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| statistics            | Event counters                              |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_stats           | (Optional)                                  |
| <i>ptag</i>           | (Optional)                                  |
| <i>cname</i>          | (Optional)                                  |
| <i>last_clear</i>     | (Optional)                                  |
| <i>rid_change</i>     | (Optional)                                  |
| <i>dr_elections</i>   | (Optional)                                  |
| <i>older_lsa_recv</i> | (Optional)                                  |

|                           |            |
|---------------------------|------------|
| <i>nbr_state_change</i>   | (Optional) |
| <i>nbr_dead_postpone</i>  | (Optional) |
| <i>nbr_dead_expire</i>    | (Optional) |
| <i>nbr_bad_lsreq</i>      | (Optional) |
| <i>nbr_seqno_mismatch</i> | (Optional) |
| <i>spf_full</i>           | (Optional) |
| <i>spf_summary</i>        | (Optional) |
| <i>spf_external</i>       | (Optional) |
| <i>spf_extsummary</i>     | (Optional) |
| <i>rtr_generate</i>       | (Optional) |
| <i>rtr_refresh</i>        | (Optional) |
| <i>rtr_flush</i>          | (Optional) |
| <i>rtr_other_flush</i>    | (Optional) |
| <i>net_generate</i>       | (Optional) |
| <i>net_refresh</i>        | (Optional) |
| <i>net_flush</i>          | (Optional) |
| <i>net_other_flush</i>    | (Optional) |
| <i>sum_generate</i>       | (Optional) |
| <i>sum_refresh</i>        | (Optional) |
| <i>sum_flush</i>          | (Optional) |
| <i>sum_other_flush</i>    | (Optional) |
| <i>asbr_generate</i>      | (Optional) |
| <i>asbr_refresh</i>       | (Optional) |
| <i>asbr_flush</i>         | (Optional) |
| <i>asbr_other_flush</i>   | (Optional) |
| <i>asext_generate</i>     | (Optional) |
| <i>asext_refresh</i>      | (Optional) |
| <i>asext_flush</i>        | (Optional) |
| <i>asext_other_flush</i>  | (Optional) |

|                                |            |
|--------------------------------|------------|
| <i>opaque_link_generate</i>    | (Optional) |
| <i>opaque_link_refresh</i>     | (Optional) |
| <i>opaque_link_flush</i>       | (Optional) |
| <i>opaque_link_other_flush</i> | (Optional) |
| <i>opaque_area_generate</i>    | (Optional) |
| <i>opaque_area_refresh</i>     | (Optional) |
| <i>opaque_area_flush</i>       | (Optional) |
| <i>opaque_area_other_flush</i> | (Optional) |
| <i>opaque_as_generate</i>      | (Optional) |
| <i>opaque_as_refresh</i>       | (Optional) |
| <i>opaque_as_flush</i>         | (Optional) |
| <i>opaque_as_other_flush</i>   | (Optional) |
| <i>limbo_lsa_count</i>         | (Optional) |
| <i>limbo_lsa_hwm</i>           | (Optional) |
| <i>limbo_lsa_deleted</i>       | (Optional) |
| <i>limbo_lsa_revived</i>       | (Optional) |
| <i>limbo_runs</i>              | (Optional) |
| <i>limbo_lsa_last_time_hwm</i> | (Optional) |
| <i>limbo_timer</i>             | (Optional) |
| <i>helloq_size</i>             | (Optional) |
| <i>helloq_max_size</i>         | (Optional) |
| <i>helloq_hwm</i>              | (Optional) |
| <i>helloq_drops</i>            | (Optional) |
| <i>helloq_last_hwm_time</i>    | (Optional) |
| <i>floodq_size</i>             | (Optional) |
| <i>floodq_max_size</i>         | (Optional) |
| <i>floodq_hwm</i>              | (Optional) |
| <i>floodq_drops</i>            | (Optional) |
| <i>floodq_last_hwm_time</i>    | (Optional) |

|                      |            |
|----------------------|------------|
| <i>lsdb_add_fail</i> | (Optional) |
| TABLE_buffer_detail  | (Optional) |
| <i>buf_size</i>      | (Optional) |
| <i>buf_size_huge</i> | (Optional) |
| <i>buf_in_use</i>    | (Optional) |
| <i>buf_hwm</i>       | (Optional) |
| <i>buf_perm</i>      | (Optional) |
| <i>buf_alloc</i>     | (Optional) |
| <i>buf_free</i>      | (Optional) |

**Command Mode**

- /exec



## show ip ospf summary-address

```
show ip ospf [ <tag> ] summary-address [ private ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ [ TABLE_ctx <ptag> <cname> <rid> [ TABLE_sum <addr> <masklen> [ <metric> ] [ <tag>
] [ <pending> ] ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| ospf                  | Display OSPF status and configuration       |
| <i>tag</i>            | (Optional) Process tag                      |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| summary-address       | Summary-address redistribution information  |
| private               | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| <i>tag</i>            | (Optional)                                  |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_ctx             | (Optional)                                  |
| <i>ptag</i>           | (Optional)                                  |
| <i>cname</i>          | (Optional)                                  |
| <i>rid</i>            | (Optional)                                  |
| TABLE_sum             | (Optional)                                  |
| <i>addr</i>           | (Optional)                                  |
| <i>masklen</i>        | (Optional)                                  |
| <i>metric</i>         | (Optional)                                  |
| <i>pending</i>        | (Optional)                                  |

### Command Mode

- /exec

## show ip ospf traffic

```
show ip ospf [ <tag> ] traffic [ <interface> [ detail ] | [ detail ] | [ detail ] vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_traf <ptag> <cname> <last_clear> [ <ifname> ] <pkt_in> <pkt_out>
<lsu_first_trans> <lsu_retrans> <lsu_for_lsreq> <lsu_nbr_trans> <throttle_out> <throttle_out_token>
<throttle_out_ip> <lsa_ignored> <lsa_dropped_spf> <lsa_dropped_gr> <pkt_drops_in> <pkt_drops_out>
<pkt_errors_in> <pkt_errors_out> <hello_errors_in> <dbds_errors_in> <lsreqs_errors_in> <lsus_errors_in>
<lsacks_errors_in> <pkt_unknown_in> <pkt_unknown_out> <pkt_no_ospf_intf> <bad_version> <bad_crc>
<dup_rtr_id> <dup_src_addr> <invalid_src_addr> <invalid_dst_addr> <non_existing_nbr> <pkt_passive_intf>
<wrong_area> <invalid_pkt_len> <nbr_changed_routerid_ipaddr> <nbr_changed_interfaceid> <bad_auth>
[ <pkt_no_vrf> ] [ <bad_reserved> ] <hellos_in> <dbds_in> <lsreqs_in> <lsus_in> <lsacks_in> <hellos_out>
<dbds_out> <lsreqs_out> <lsus_out> <lsacks_out> [ <hellos_in_hq> <dbds_in_hq> <lsreqs_in_flq>
<lsus_in_flq> <lsacks_in_flq> <lsas_in_dbds_in> <lsas_in_lsreqs_in> <lsas_in_lsus_in> <lsas_in_lsacks_in>
<lsas_in_dbds_out> <lsas_in_lsreqs_out> <lsas_in_lsus_out> <lsas_in_lsacks_out> <lsas_in_rxmt_lsus_out>
] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| ospf                  | Display OSPF status and configuration       |
| <i>tag</i>            | (Optional) Process tag                      |
| <i>interface</i>      | (Optional) OSPF enabled interface           |
| detail                | (Optional) Display detailed information     |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| traffic               | Packet counters                             |
| <i>__readonly__</i>   | (Optional)                                  |
| <i>TABLE_traf</i>     | (Optional)                                  |
| <i>ptag</i>           | (Optional)                                  |
| <i>cname</i>          | (Optional)                                  |
| <i>last_clear</i>     | (Optional)                                  |
| <i>ifname</i>         | (Optional)                                  |
| <i>pkt_in</i>         | (Optional)                                  |

|                           |            |
|---------------------------|------------|
| <i>pkt_out</i>            | (Optional) |
| <i>lsu_first_trans</i>    | (Optional) |
| <i>lsu_retrans</i>        | (Optional) |
| <i>lsu_for_lsreq</i>      | (Optional) |
| <i>lsu_nbr_trans</i>      | (Optional) |
| <i>throttle_out</i>       | (Optional) |
| <i>throttle_out_token</i> | (Optional) |
| <i>throttle_out_ip</i>    | (Optional) |
| <i>lsa_ignored</i>        | (Optional) |
| <i>lsa_dropped_spf</i>    | (Optional) |
| <i>lsa_dropped_gr</i>     | (Optional) |
| <i>pkt_drops_in</i>       | (Optional) |
| <i>pkt_drops_out</i>      | (Optional) |
| <i>pkt_errors_in</i>      | (Optional) |
| <i>pkt_errors_out</i>     | (Optional) |
| <i>hello_errors_in</i>    | (Optional) |
| <i>dbds_errors_in</i>     | (Optional) |
| <i>lsreqs_errors_in</i>   | (Optional) |
| <i>lsus_errors_in</i>     | (Optional) |
| <i>lsacks_errors_in</i>   | (Optional) |
| <i>pkt_unknown_in</i>     | (Optional) |
| <i>pkt_unknown_out</i>    | (Optional) |
| <i>pkt_no_ospf_intf</i>   | (Optional) |
| <i>bad_version</i>        | (Optional) |
| <i>bad_crc</i>            | (Optional) |
| <i>dup_rtr_id</i>         | (Optional) |
| <i>dup_src_addr</i>       | (Optional) |
| <i>invalid_src_addr</i>   | (Optional) |
| <i>invalid_dst_addr</i>   | (Optional) |

|                                    |            |
|------------------------------------|------------|
| <i>non_existing_nbr</i>            | (Optional) |
| <i>pkt_passive_intf</i>            | (Optional) |
| <i>wrong_area</i>                  | (Optional) |
| <i>invalid_pkt_len</i>             | (Optional) |
| <i>nbr_changed_routerid_ipaddr</i> | (Optional) |
| <i>nbr_changed_interfaceid</i>     | (Optional) |
| <i>bad_auth</i>                    | (Optional) |
| <i>bad_reserved</i>                | (Optional) |
| <i>pkt_no_vrf</i>                  | (Optional) |
| <i>hellos_in</i>                   | (Optional) |
| <i>dbds_in</i>                     | (Optional) |
| <i>lsreqs_in</i>                   | (Optional) |
| <i>lsus_in</i>                     | (Optional) |
| <i>lsacks_in</i>                   | (Optional) |
| <i>hellos_out</i>                  | (Optional) |
| <i>dbds_out</i>                    | (Optional) |
| <i>lsreqs_out</i>                  | (Optional) |
| <i>lsus_out</i>                    | (Optional) |
| <i>lsacks_out</i>                  | (Optional) |
| <i>hellos_in_hq</i>                | (Optional) |
| <i>dbds_in_hq</i>                  | (Optional) |
| <i>lsreqs_in_flq</i>               | (Optional) |
| <i>lsus_in_flq</i>                 | (Optional) |
| <i>lsacks_in_flq</i>               | (Optional) |
| <i>lsas_in_dbds_in</i>             | (Optional) |
| <i>lsas_in_lsreqs_in</i>           | (Optional) |
| <i>lsas_in_lsus_in</i>             | (Optional) |
| <i>lsas_in_lsacks_in</i>           | (Optional) |
| <i>lsas_in_dbds_out</i>            | (Optional) |

|                              |            |
|------------------------------|------------|
| <i>lsas_in_lsreqs_out</i>    | (Optional) |
| <i>lsas_in_lsus_out</i>      | (Optional) |
| <i>lsas_in_lsacks_out</i>    | (Optional) |
| <i>lsas_in_rxmt_lsus_out</i> | (Optional) |

**Command Mode**

- /exec

## show ip ospf virtual-links

```
show ip ospf [ <tag> ] virtual-links [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ TABLE_vlink <name> <nbr_rid> <if_state> <transit_area> <nh_intf> <nbr_addr> [
<transit_area_stub> ] [ <transit_area_nssa> ] <addr> [ <masklen> ] <area> [ <if_cfg> ] <state_str> <type_str>
<cost> <index> [ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority> ] [ <dr_rid> ] [ <dr_addr> ] [
<bdr_rid> ] [ <bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adjs> ] [ <gr_nbr> ] [ <hello_interval> ] [
<dead_interval> ] [ <wait_interval> ] [ <rxmt_interval> ] [ <hello_timer> ] [ <wait_timer> ] [ <pacing_timer>
] [ <lsu_timer> ] [ <lsack_timer> ] [ <netlsa_throt_timer> ] [ <auth_type> ] [ <keychain_name> ] [
<keychain_ready> ] [ <auth_md5_keyid> ] [ <link_lsa_cnt> ] [ <link_lsa_crc> ] [ <dc_enabled> ] [ <state>
] [ <transition> ] [ <lastchange> ] [ <priority> ] [ <ifid> ] [ <dr> ] [ <bdr> ] [ <master> ] [ <seqno> ] [
<dbdallsentacked> ] [ <dbdallsent> ] [ <dbdallacked> ] [ <lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts>
] [ <helloptions> ] [ <dbdoptions> ] [ <lastnonhello> ] [ <deadtimer> ] [ <pacingtimer> ] [ <dbdrxmtimer> ]
[ <reqrxmtimer> ] [ <lsutimer> ] [ <rerxmtimer> ] [ <fastrerxmtimer> ] [ <lsacktimer> ] [ <grtimer> ] [
<helpermode> ] [ <helpercand> ] [ <helperterm> ] [ <senddbd> ] [ <sendlsreq> ] [ <sendlsu> ] [ <sendlsurxmt>
] [ <sendlsack> ] [ <sendlsreqreply> ] ] ] ]
```

### Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information             |
| ip             | Display IP information                      |
| ospf           | Display OSPF status and configuration       |
| tag            | (Optional) Process tag                      |
| vrf            | (Optional) Display per-VRF information      |
| vrf-name       | (Optional) VRF name                         |
| vrf-known-name | (Optional) Known VRF name                   |
| all            | (Optional) Display information for all VRFs |
| virtual-links  | Virtual link information                    |
| __readonly__   | (Optional)                                  |
| TABLE_ctx      | (Optional)                                  |
| ptag           | (Optional)                                  |
| cname          | (Optional)                                  |
| TABLE_vlink    | (Optional)                                  |
| name           | (Optional)                                  |
| nbr_rid        | (Optional)                                  |
| if_state       | (Optional)                                  |
| transit_area   | (Optional)                                  |

|                          |            |
|--------------------------|------------|
| <i>nh_intf</i>           | (Optional) |
| <i>dc_enabled</i>        | (Optional) |
| <i>nbr_addr</i>          | (Optional) |
| <i>transit_area_stub</i> | (Optional) |
| <i>transit_area_nssa</i> | (Optional) |
| <i>addr</i>              | (Optional) |
| <i>masklen</i>           | (Optional) |
| <i>area</i>              | (Optional) |
| <i>if_cfg</i>            | (Optional) |
| <i>state_str</i>         | (Optional) |
| <i>type_str</i>          | (Optional) |
| <i>cost</i>              | (Optional) |
| <i>index</i>             | (Optional) |
| <i>passive</i>           | (Optional) |
| <i>mpls</i>              | (Optional) |
| <i>transmit_delay</i>    | (Optional) |
| <i>if_priority</i>       | (Optional) |
| <i>dr_rid</i>            | (Optional) |
| <i>dr_addr</i>           | (Optional) |
| <i>bdr_rid</i>           | (Optional) |
| <i>bdr_addr</i>          | (Optional) |
| <i>nbr_total</i>         | (Optional) |
| <i>nbr_flood</i>         | (Optional) |
| <i>nbr_adj</i>           | (Optional) |
| <i>gr_nbr</i>            | (Optional) |
| <i>hello_interval</i>    | (Optional) |
| <i>dead_interval</i>     | (Optional) |
| <i>wait_interval</i>     | (Optional) |
| <i>rxmt_interval</i>     | (Optional) |

|                           |            |
|---------------------------|------------|
| <i>hello_timer</i>        | (Optional) |
| <i>wait_timer</i>         | (Optional) |
| <i>pacing_timer</i>       | (Optional) |
| <i>lsu_timer</i>          | (Optional) |
| <i>lsack_timer</i>        | (Optional) |
| <i>netlsa_throt_timer</i> | (Optional) |
| <i>auth_type</i>          | (Optional) |
| <i>keychain_name</i>      | (Optional) |
| <i>keychain_ready</i>     | (Optional) |
| <i>auth_md5_keyid</i>     | (Optional) |
| <i>link_lsa_cnt</i>       | (Optional) |
| <i>link_lsa_crc</i>       | (Optional) |
| <i>state</i>              | (Optional) |
| <i>transition</i>         | (Optional) |
| <i>lastchange</i>         | (Optional) |
| <i>priority</i>           | (Optional) |
| <i>ifid</i>               | (Optional) |
| <i>dr</i>                 | (Optional) |
| <i>bdr</i>                | (Optional) |
| <i>master</i>             | (Optional) |
| <i>seqno</i>              | (Optional) |
| <i>dbdallsentacked</i>    | (Optional) |
| <i>dbdallsent</i>         | (Optional) |
| <i>dbdallacked</i>        | (Optional) |
| <i>lsaonreqlist</i>       | (Optional) |
| <i>lsafromlastreq</i>     | (Optional) |
| <i>lsreqrxmts</i>         | (Optional) |
| <i>helloptions</i>        | (Optional) |
| <i>dbdoptions</i>         | (Optional) |



|                       |            |
|-----------------------|------------|
| <i>lastmonhello</i>   | (Optional) |
| <i>deadtimer</i>      | (Optional) |
| <i>pacingtmer</i>     | (Optional) |
| <i>dbdrxtimer</i>     | (Optional) |
| <i>reqrxmtimer</i>    | (Optional) |
| <i>lsutimer</i>       | (Optional) |
| <i>rerxmtimer</i>     | (Optional) |
| <i>fastrerxmtimer</i> | (Optional) |
| <i>lsacktimer</i>     | (Optional) |
| <i>grtimer</i>        | (Optional) |
| <i>helpermode</i>     | (Optional) |
| <i>helpercand</i>     | (Optional) |
| <i>helperterm</i>     | (Optional) |
| <i>senddbd</i>        | (Optional) |
| <i>sendsreq</i>       | (Optional) |
| <i>sendsu</i>         | (Optional) |
| <i>sendsurxmt</i>     | (Optional) |
| <i>sendsack</i>       | (Optional) |
| <i>sendsreqreply</i>  | (Optional) |

**Command Mode**

- /exec

## show ip ospf virtual-links brief

```
show ip ospf [ <tag> ] virtual-links brief [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> <vlink_count> [ TABLE_vlink <nbr_rid> <vlink_num> <transit_area> <cost>
<if_state> ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| ospf                  | Display OSPF status and configuration       |
| <i>tag</i>            | (Optional) Process tag                      |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| virtual-links         | Virtual link information                    |
| brief                 | Display summary of OSPF virtual links       |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_ctx             | (Optional)                                  |
| <i>ptag</i>           | (Optional)                                  |
| <i>cname</i>          | (Optional)                                  |
| <i>vlink_count</i>    | (Optional)                                  |
| TABLE_vlink           | (Optional)                                  |
| <i>nbr_rid</i>        | (Optional)                                  |
| <i>vlink_num</i>      | (Optional)                                  |
| <i>transit_area</i>   | (Optional)                                  |
| <i>cost</i>           | (Optional)                                  |
| <i>if_state</i>       | (Optional)                                  |

### Command Mode

- /exec

## show ip pim config-sanity

```
show ip pim config-sanity [ __readonly__ ] [ TABLE_vrf [ <out-context> ] [ TABLE_RP [ <rp-addr> ] [ <rperr-count> ] [ <rp-interface> ] [ <rp-error> ] ] [ TABLE_ANYCAST [ <arperr-count> ] [ <anycastrp-addr> ] [ <arp-interface> ] [ <arp-error> ] [ <configure-as-RP> ] [ TABLE_MEMBER [ <memerr-count> ] [ <mem-interface> ] [ <mem-error> ] ] [ <found> ] ] [ TABLE_BSR [ <rp-cand-count> ] [ <rp-cand-interface> ] [ <rp-cand-error> ] [ <bsr-cand-count> ] [ <bsr-cand-interface> ] [ <bsr-cand-error> ] ] [ TABLE_AUTORP [ <rp-cand-count> ] [ <rp-cand-interface> ] [ <rp-cand-error> ] [ <auto-cand-count> ] [ <auto-cand-interface> ] [ <auto-cand-error> ] ] ] ]
```

### Syntax Description

|                        |                                      |
|------------------------|--------------------------------------|
| show                   | Show running system information      |
| ip                     | Display IP information               |
| pim                    | Display PIM status and configuration |
| config-sanity          | Configuration Sanity check           |
| <i>__readonly__</i>    | (Optional)                           |
| <i>TABLE_vrf</i>       | (Optional)                           |
| <i>out-context</i>     | (Optional)                           |
| <i>TABLE_RP</i>        | (Optional)                           |
| <i>rp-addr</i>         | (Optional)                           |
| <i>rperr-count</i>     | (Optional)                           |
| <i>rp-interface</i>    | (Optional)                           |
| <i>rp-error</i>        | (Optional)                           |
| <i>TABLE_ANYCAST</i>   | (Optional)                           |
| <i>configure-as-RP</i> | (Optional)                           |
| <i>arperr-count</i>    | (Optional)                           |
| <i>anycastrp-addr</i>  | (Optional)                           |
| <i>arp-interface</i>   | (Optional)                           |
| <i>arp-error</i>       | (Optional)                           |
| <i>TABLE_MEMBER</i>    | (Optional)                           |
| <i>memerr-count</i>    | (Optional)                           |
| <i>mem-interface</i>   | (Optional)                           |
| <i>mem-error</i>       | (Optional)                           |

|                            |            |
|----------------------------|------------|
| <i>found</i>               | (Optional) |
| TABLE_BSR                  | (Optional) |
| <i>rp-cand-count</i>       | (Optional) |
| <i>rp-cand-interface</i>   | (Optional) |
| <i>rp-cand-error</i>       | (Optional) |
| <i>bsr-cand-count</i>      | (Optional) |
| <i>bsr-cand-interface</i>  | (Optional) |
| <i>bsr-cand-error</i>      | (Optional) |
| TABLE_AUTORP               | (Optional) |
| <i>rp-cand-count</i>       | (Optional) |
| <i>rp-cand-interface</i>   | (Optional) |
| <i>rp-cand-error</i>       | (Optional) |
| <i>auto-cand-count</i>     | (Optional) |
| <i>auto-cand-interface</i> | (Optional) |
| <i>auto-cand-error</i>     | (Optional) |

**Command Mode**

- /exec

# show ip pim df

```
show ip pim df [ <rp-or-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ] [ __readonly__ ]
[ TABLE_ctx [ <out-context> ] [ TABLE_rp [ <rp-addr> ] [ <df-ordinal> ] [ <df-bits> ] [ <df-bits-count> ]
[ <metric-pref> ] [ <metric> ] [ TABLE_grange [ <grange-grp> ] [ <grange-masklen> ] ] [ TABLE_iod [
<if-name> ] [ <df-winner> ] [ <df-state> ] [ <winner-metric-pref> ] [ <winner-metric> ] [ <uptime> ] [ <is-rpf>
]]]]]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                     |
| ip                    | Display IP information                              |
| pim                   | Display PIM status and configuration                |
| df                    | Display Bidir Designated Forwarders                 |
| <i>rp-or-group</i>    | (Optional) Display for a single RP or group address |
| vrf                   | (Optional) Display per-VRF information              |
| <i>vrf-name</i>       | (Optional) VRF name                                 |
| <i>vrf-known-name</i> | (Optional) Known VRF name                           |
| all                   | (Optional) Display information for all VRFs         |
| internal              | (Optional) Commands for internal use                |
| <i>__readonly__</i>   | (Optional)  |
| TABLE_ctx             | (Optional)  |
| <i>out-context</i>    | (Optional)  |
| TABLE_rp              | (Optional)  |
| <i>rp-addr</i>        | (Optional)  |
| <i>df-ordinal</i>     | (Optional)  |
| <i>df-bits</i>        | (Optional)  |
| <i>df-bits-count</i>  | (Optional)  |
| <i>metric-pref</i>    | (Optional)  |
| <i>metric</i>         | (Optional)  |
| TABLE_grange          | (Optional)  |
| <i>grange-grp</i>     | (Optional)  |
| <i>grange-masklen</i> | (Optional)  |

|                           |            |
|---------------------------|------------|
| TABLE_iod                 | (Optional) |
| <i>if-name</i>            | (Optional) |
| <i>df-winner</i>          | (Optional) |
| <i>df-state</i>           | (Optional) |
| <i>winner-metric-pref</i> | (Optional) |
| <i>winner-metric</i>      | (Optional) |
| <i>uptime</i>             | (Optional) |
| <i>is-rpf</i>             | (Optional) |

**Command Mode**

- /exec

# show ip pim fabric info

```
show ip pim fabric info [ __readonly__ <switch_role> <fabric_ctrl_addr> <peer_fabric_ctrl_infra>
<vpc_domain_id> <peer_fabric_ctrl_addr> ]
```

## Syntax Description

|                               |                                      |
|-------------------------------|--------------------------------------|
| show                          | Show running system information      |
| ip                            | Display IP information               |
| pim                           | Display PIM status and configuration |
| fabric                        | Fabric functionality                 |
| info                          | show the fabric info                 |
| <i>__readonly__</i>           | (Optional)                           |
| <i>switch_role</i>            | (Optional)                           |
| <i>fabric_ctrl_addr</i>       | (Optional)                           |
| <i>peer_fabric_ctrl_infra</i> | (Optional)                           |
| <i>vpc_domain_id</i>          | (Optional)                           |
| <i>peer_fabric_ctrl_addr</i>  | (Optional)                           |

## Command Mode

- /exec

# show ip pim fabric legacy-vlans

show ip pim fabric legacy-vlans [ *\_\_readonly\_\_* *TABLE\_legacy\_vlan* <*vlan\_id*> ]

## Syntax Description

|                          |                                      |
|--------------------------|--------------------------------------|
| show                     | Show running system information      |
| ip                       | Display IP information               |
| pim                      | Display PIM status and configuration |
| fabric                   | Fabric functionality                 |
| legacy-vlans             | Show legacy VLANs on this switch     |
| <i>__readonly__</i>      | (Optional)                           |
| <i>TABLE_legacy_vlan</i> | (Optional)                           |
| <i>vlan_id</i>           | (Optional)                           |

## Command Mode

- /exec



# show ip pim group-range

```
show ip pim group-range [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_vrf <out-context> [ { TABLE_group <grp-addr> [ <invalid-grp> ] [ <action> ] [ <mode> ] [ <rp-addr>
] [ <sh-tree-only-range> ] [ <origin> } ] ] ] ]
```

## Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information             |
| ip                        | Display IP information                      |
| pim                       | Display PIM status and configuration        |
| group-range               | Display the various group-ranges            |
| <i>group</i>              | (Optional) IP address of group to display   |
| vrf                       | (Optional) Display per-VRF information      |
| <i>vrf-name</i>           | (Optional) VRF name                         |
| <i>vrf-known-name</i>     | (Optional) Known VRF name                   |
| all                       | (Optional) Display information for all VRFs |
| __readonly__              | (Optional)                                  |
| TABLE_vrf                 | (Optional)                                  |
| <i>out-context</i>        | (Optional)                                  |
| TABLE_group               | (Optional)                                  |
| <i>invalid-grp</i>        | (Optional)                                  |
| <i>grp-addr</i>           | (Optional)                                  |
| <i>mode</i>               | (Optional)                                  |
| <i>rp-addr</i>            | (Optional)                                  |
| <i>sh-tree-only-range</i> | (Optional)                                  |
| <i>action</i>             | (Optional)                                  |
| <i>origin</i>             | (Optional)                                  |

## Command Mode

- /exec

# show ip pim host-proxy

show ip pim host-proxy [ \_\_readonly\_\_ TABLE\_intf <intf-name> ]

## Syntax Description

|                  |                                   |
|------------------|-----------------------------------|
| show             | Show running system information   |
| ip               | Display IP information            |
| pim              | PIM global configuration commands |
| host-proxy       | host-proxy                        |
| __readonly__     | (Optional)                        |
| TABLE_intf       | (Optional)                        |
| <i>intf-name</i> | (Optional)                        |

## Command Mode

- /exec

# show ip pim interface

```
show ip pim interface [ <interface> ] [ brief ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ] [
__readonly__ ] [ <is-pim-enabled> ] [ TABLE_vrf [ <out-context> ] [ TABLE_brief [ <if-name> ] [ <if-addr>
] [ <if-dr> ] [ <if-nbr-count> ] [ <if-is-border> ] ] [ TABLE_iod [ <if-name> ] [ <if-status> ] [
<cached_if_status> ] [ <if-addr-summary> ] [ <pim-dr-address> ] [ <dr-priority> ] [ <no-dr-priority> ] [
<nbr-cnt> ] [ <hello-interval-sec> ] [ <hello-interval-msec> ] [ <hello-timer> ] [ <holdtime-msec> ] [
<holdtime-sec> ] [ <if-conf-dr-priority> ] [ <if-conf-delay> ] [ <is-border> ] [ <genid> ] [ <isauth-config> ]
[ <nbr-policy-name> ] [ <jp-in-policy-name> ] [ <jp-out-policy-name> ] [ <jp-interval> ] [ <jp-next-send> ]
[ <pim-bfd-enabled> ] [ <is-passive> ] [ <is-pim-vpc-svi> ] [ <is-auto-enabled> ] [ <vpc-peer-nbr> ] [
<last-cleared> ] [ <hello-sent> ] [ <hello-rcvd> ] [ <hello-early-sent> ] [ <jp-sent> ] [ <jp-rcvd> ] [ <assert-sent>
] [ <assert-rcvd> ] [ <graft-sent> ] [ <graft-rcvd> ] [ <graft-ack-sent> ] [ <graft-ack-rcvd> ] [ <df-offer-sent>
] [ <df-offer-rcvd> ] [ <df-winner-sent> ] [ <df-winner-rcvd> ] [ <df-backoff-sent> ] [ <df-backoff-rcvd> ] [
<pass-sent> ] [ <pass-rcvd> ] [ <cksum-errors> ] [ <invalid-errors> ] [ <invalid-df-errors> ] [ <auth-failed>
] [ <pak-len-errors> ] [ <ver-errors> ] [ <pkts-self> ] [ <pkts-non-nbr> ] [ <pkts-on-passive> ] [ <jp-rcvd-on-rpf>
] [ <jp-rcvd-no-rp> ] [ <jp-rcvd-wrong-rp> ] [ <jp-rcvd-for-ssm> ] [ <jp-rcvd-for-bidir> ] [ <jp-in-policy-filter>
] [ <jp-out-policy-filter> ] [ <ecmp-redirect-sent> ] [ <ecmp-redirect-rcvd> ] ] ] ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                          |
| ip                    | Display IP information                                   |
| pim                   | Display PIM status and configuration                     |
| interface             | Display PIM interface related information                |
| <i>interface</i>      | (Optional) Interface name of single interface to display |
| brief                 | (Optional) Display one line status per interface         |
| vrf                   | (Optional) Display per-VRF information                   |
| <i>vrf-name</i>       | (Optional) VRF name                                      |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                |
| all                   | (Optional) Display information for all VRFs              |
| internal              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                |
| <i>__readonly__</i>   | (Optional)   |
| <i>is-pim-enabled</i> | (Optional)   |
| TABLE_vrf             | (Optional)   |
| <i>out-context</i>    | (Optional)   |
| TABLE_brief           | (Optional)   |
| <i>if-name</i>        | (Optional)   |

|                            |            |
|----------------------------|------------|
| <i>if-addr</i>             | (Optional) |
| <i>if-dr</i>               | (Optional) |
| <i>if-nbr-count</i>        | (Optional) |
| <i>if-is-border</i>        | (Optional) |
| TABLE_iod                  | (Optional) |
| <i>if-name</i>             | (Optional) |
| <i>if-status</i>           | (Optional) |
| <i>cached_if_status</i>    | (Optional) |
| <i>if-addr-summary</i>     | (Optional) |
| <i>pim-dr-address</i>      | (Optional) |
| <i>dr-priority</i>         | (Optional) |
| <i>no-dr-priority</i>      | (Optional) |
| <i>nbr-cnt</i>             | (Optional) |
| <i>hello-interval-sec</i>  | (Optional) |
| <i>hello-interval-msec</i> | (Optional) |
| <i>hello-timer</i>         | (Optional) |
| <i>holdtime-msec</i>       | (Optional) |
| <i>holdtime-sec</i>        | (Optional) |
| <i>if-conf-dr-priority</i> | (Optional) |
| <i>if-conf-delay</i>       | (Optional) |
| <i>is-border</i>           | (Optional) |
| <i>genid</i>               | (Optional) |
| <i>isauth-config</i>       | (Optional) |
| <i>nbr-policy-name</i>     | (Optional) |
| <i>jp-in-policy-name</i>   | (Optional) |
| <i>jp-out-policy-name</i>  | (Optional) |
| <i>jp-interval</i>         | (Optional) |
| <i>jp-next-send</i>        | (Optional) |
| <i>pim-bfd-enabled</i>     | (Optional) |

|                          |            |
|--------------------------|------------|
| <i>is-passive</i>        | (Optional) |
| <i>is-pim-vpc-svi</i>    | (Optional) |
| <i>is-auto-enabled</i>   | (Optional) |
| <i>vpc-peer-nbr</i>      | (Optional) |
| <i>last-cleared</i>      | (Optional) |
| <i>hello-sent</i>        | (Optional) |
| <i>hello-rcvd</i>        | (Optional) |
| <i>hello-early-sent</i>  | (Optional) |
| <i>jp-sent</i>           | (Optional) |
| <i>jp-rcvd</i>           | (Optional) |
| <i>assert-sent</i>       | (Optional) |
| <i>assert-rcvd</i>       | (Optional) |
| <i>graft-sent</i>        | (Optional) |
| <i>graft-rcvd</i>        | (Optional) |
| <i>graft-ack-sent</i>    | (Optional) |
| <i>graft-ack-rcvd</i>    | (Optional) |
| <i>df-offer-sent</i>     | (Optional) |
| <i>df-offer-rcvd</i>     | (Optional) |
| <i>df-winner-sent</i>    | (Optional) |
| <i>df-winner-rcvd</i>    | (Optional) |
| <i>df-backoff-sent</i>   | (Optional) |
| <i>df-backoff-rcvd</i>   | (Optional) |
| <i>pass-sent</i>         | (Optional) |
| <i>pass-rcvd</i>         | (Optional) |
| <i>cksum-errors</i>      | (Optional) |
| <i>invalid-errors</i>    | (Optional) |
| <i>invalid-df-errors</i> | (Optional) |
| <i>auth-failed</i>       | (Optional) |
| <i>pak-len-errors</i>    | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>ver-errors</i>           | (Optional) |
| <i>pkts-self</i>            | (Optional) |
| <i>pkts-non-nbr</i>         | (Optional) |
| <i>pkts-on-passive</i>      | (Optional) |
| <i>jp-rcvd-on-rpf</i>       | (Optional) |
| <i>jp-rcvd-no-rp</i>        | (Optional) |
| <i>jp-rcvd-wrong-rp</i>     | (Optional) |
| <i>jp-rcvd-for-ssm</i>      | (Optional) |
| <i>jp-rcvd-for-bidir</i>    | (Optional) |
| <i>jp-in-policy-filter</i>  | (Optional) |
| <i>jp-out-policy-filter</i> | (Optional) |
| <i>ecmp-redirect-sent</i>   | (Optional) |
| <i>ecmp-redirect-recv</i>   | (Optional) |

**Command Mode**

- /exec

## show ip pim mdt

```
show ip pim mdt [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <out_context>
<mti> <mti_status> <default_mdt_grp> <grp_mode> <asm_shared_tree> <mti_config_mtu> <mti_active_mtu>
<cfg_tunnel_src_if> <bgp_update_src_if> <hello_interval> <jp_interval> <data_mdt_join_interval>
<data_switchover_interval> <data_holddown_interval> <data_timeout_interval> <mdt_src> <mdt_src_if>
<bgp_rd> <bgp_rd_set> <send_join_count> <rcvd_join_count> { TABLE_data_mdt <grange_prefix>
<grange_mask_len> <threshold> [ <policy_name> ] } ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information             |
| ip                       | Display IP information                      |
| pim                      | Display PIM status and configuration        |
| mdt                      | Display MDT information                     |
| vrf                      | (Optional) Display per-VRF information      |
| <i>vrf-name</i>          | (Optional) VRF name                         |
| <i>vrf-known-name</i>    | (Optional) Known VRF name                   |
| all                      | (Optional) Display information for all VRFs |
| <i>__readonly__</i>      | (Optional)                                  |
| TABLE_vrf                | (Optional)                                  |
| <i>out_context</i>       | (Optional)                                  |
| <i>mti</i>               | (Optional)                                  |
| <i>mti_status</i>        | (Optional)                                  |
| <i>default_mdt_grp</i>   | (Optional)                                  |
| <i>grp_mode</i>          | (Optional)                                  |
| <i>asm_shared_tree</i>   | (Optional)                                  |
| <i>mti_config_mtu</i>    | (Optional)                                  |
| <i>mti_active_mtu</i>    | (Optional)                                  |
| <i>cfg_tunnel_src_if</i> | (Optional)                                  |
| <i>bgp_update_src_if</i> | (Optional)                                  |
| <i>hello_interval</i>    | (Optional)                                  |
| <i>jp_interval</i>       | (Optional)                                  |

|                                 |            |
|---------------------------------|------------|
| <i>data_mdt_join_interval</i>   | (Optional) |
| <i>data_switchover_interval</i> | (Optional) |
| <i>data_holddown_interval</i>   | (Optional) |
| <i>data_timeout_interval</i>    | (Optional) |
| <i>mdt_src</i>                  | (Optional) |
| <i>mdt_src_if</i>               | (Optional) |
| <i>bgp_rd</i>                   | (Optional) |
| <i>bgp_rd_set</i>               | (Optional) |
| <i>send_join_count</i>          | (Optional) |
| <i>rcvd_join_count</i>          | (Optional) |
| TABLE_data_mdt                  | (Optional) |
| <i>grange_prefix</i>            | (Optional) |
| <i>grange_mask_len</i>          | (Optional) |
| <i>threshold</i>                | (Optional) |
| <i>policy_name</i>              | (Optional) |

**Command Mode**

- /exec



# show ip pim mdt bgp

```
show ip pim mdt bgp [ mdt-source <src-addr> ] [ __readonly__ { TABLE_entry <bgp_rd> <mdt_src>
<mdt_grp> <local> } ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information            |
| ip                  | Display IP information                     |
| pim                 | Display PIM status and configuration       |
| mdt                 | Display MDT information                    |
| bgp                 | Display BGP related information            |
| mdt-source          | (Optional) Source address of MVPN neighbor |
| <i>src-addr</i>     | (Optional) Source Address                  |
| <i>__readonly__</i> | (Optional)                                 |
| TABLE_entry         | (Optional)                                 |
| <i>bgp_rd</i>       | (Optional)                                 |
| <i>mdt_src</i>      | (Optional)                                 |
| <i>mdt_grp</i>      | (Optional)                                 |
| <i>local</i>        | (Optional)                                 |

## Command Mode

- /exec

## show ip pim mdt history interval

```
show ip pim mdt history interval <min> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_vrf <out_context> [ { TABLE_entry <csrc> <cgrp> <psrc> <pgrp> <uptime> <send_count> } ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| pim                   | Display PIM status and configuration        |
| mdt                   | Display MDT information                     |
| history               | Display MDT Data Join Send Histoy           |
| interval              | Display in specified interval               |
| <i>min</i>            | Minutes                                     |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| __readonly__          | (Optional)                                  |
| TABLE_vrf             | (Optional)                                  |
| <i>out_context</i>    | (Optional)                                  |
| TABLE_entry           | (Optional)                                  |
| <i>csrc</i>           | (Optional)                                  |
| <i>cgrp</i>           | (Optional)                                  |
| <i>psrc</i>           | (Optional)                                  |
| <i>pgrp</i>           | (Optional)                                  |
| <i>uptime</i>         | (Optional)                                  |
| <i>send_count</i>     | (Optional)                                  |

### Command Mode

- /exec

# show ip pim mdt receive

```
show ip pim mdt receive [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
[ <out_context> ] [ TABLE_entry [ <csrc> ] [ <cgrp> ] [ <psrc> ] [ <pgrp> ] [ <uptime> ] [ <expires> ] [
<rcv_count> ] ] ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| pim                   | Display PIM status and configuration        |
| mdt                   | Display MDT information                     |
| receive               | Display Received Data Joins Information     |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| detail                | (Optional) Display detailed information     |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_vrf             | (Optional)                                  |
| <i>out_context</i>    | (Optional)                                  |
| TABLE_entry           | (Optional)                                  |
| <i>csrc</i>           | (Optional)                                  |
| <i>cgrp</i>           | (Optional)                                  |
| <i>psrc</i>           | (Optional)                                  |
| <i>pgrp</i>           | (Optional)                                  |
| <i>uptime</i>         | (Optional)                                  |
| <i>expires</i>        | (Optional)                                  |
| <i>rcv_count</i>      | (Optional)                                  |

## Command Mode

- /exec

## show ip pim mdt send

```
show ip pim mdt send [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<out_context> [ { TABLE_entry <csrc> <cgrp> <psrc> <pgrp> <uptime> <send_count> } ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| pim                   | Display PIM status and configuration        |
| mdt                   | Display MDT information                     |
| send                  | Display MDT Data Join Send Information      |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| detail                | (Optional) Display detailed information     |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_vrf             | (Optional)                                  |
| <i>out_context</i>    | (Optional)                                  |
| TABLE_entry           | (Optional)                                  |
| <i>csrc</i>           | (Optional)                                  |
| <i>cgrp</i>           | (Optional)                                  |
| <i>psrc</i>           | (Optional)                                  |
| <i>pgrp</i>           | (Optional)                                  |
| <i>uptime</i>         | (Optional)                                  |
| <i>send_count</i>     | (Optional)                                  |

### Command Mode

- /exec

# show ip pim neighbor

```
show ip pim neighbor { [ <interface> ] | [ <ipaddr> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ detail
| internal ] [ __readonly__ [ TABLE_vrf <out-context> [ TABLE_neighbor
<nbr-addr><if-name><uptime><expires> [ <dr-priority> ] <bidir-capable><bfd-state> [
<longest-hello-intvl><non-hello-pkts> ] [ <ecmp-redirect-capable> ] ] ] ]
```

## Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information                       |
| ip                           | Display IP information                                |
| pim                          | Display PIM status and configuration                  |
| neighbor                     | Display PIM neighbor related information              |
| <i>interface</i>             | (Optional) Display neighbors on single interface name |
| <i>ipaddr</i>                | (Optional) IP address of single neighbor to display   |
| vrf                          | (Optional) Display per-VRF information                |
| <i>vrf-name</i>              | (Optional) VRF name                                   |
| <i>vrf-known-name</i>        | (Optional) Known VRF name                             |
| all                          | (Optional) Display information for all VRFs           |
| detail                       | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED             |
| internal                     | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED             |
| <i>__readonly__</i>          | (Optional)  |
| TABLE_vrf                    | (Optional)  |
| <i>out-context</i>           | (Optional)  |
| TABLE_neighbor               | (Optional)  |
| <i>dr-priority</i>           | (Optional)  |
| <i>ecmp-redirect-capable</i> | (Optional)  |

## Command Mode

- /exec



|                                     |            |
|-------------------------------------|------------|
| TABLE_timeoutlist                   | (Optional) |
| <i>timeoutoif-name</i>              | (Optional) |
| <i>immediate-list-count</i>         | (Optional) |
| TABLE_immediatelist                 | (Optional) |
| <i>immediateoif-name</i>            | (Optional) |
| <i>immediate-timeout-list-count</i> | (Optional) |
| TABLE_immediatettimeoutlist         | (Optional) |
| <i>immediatettimeoutoif-name</i>    | (Optional) |
| <i>sgr-prune-list-count</i>         | (Optional) |
| TABLE_sgrprunelist                  | (Optional) |
| <i>sgrprunelisoif-name</i>          | (Optional) |

**Command Mode**

- /exec

## show ip pim policy statistics

```
show ip pim policy statistics { register-policy | bsr { bsr-policy | rp-candidate-policy } | auto-rp {
rp-candidate-policy | mapping-agent-policy } } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_vrf <vrf_name_stats> { TABLE_routemap <name> <action> <seq_num> [ { TABLE_cmd
<command> <compare_count> <match_count> } ] } <total_accept_count> <total_reject_count> ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                |
| ip                    | Display IP information                         |
| pim                   | PIM global configuration commands              |
| policy                | Policy related information                     |
| statistics            | Policy statistics                              |
| register-policy       | Statistics for Register policy                 |
| bsr                   | Bootstrap protocol RP-distribution policy      |
| bsr-policy            | Statistics for filtered BSR messages           |
| rp-candidate-policy   | Statistics for filtered RP candidate messages  |
| auto-rp               | Statistics for auto-rp messages                |
| rp-candidate-policy   | Statistics for filtered RP candidate messages  |
| mapping-agent-policy  | Statistics for filtered mapping agent messages |
| vrf                   | (Optional) Display per-VRF information         |
| <i>vrf-name</i>       | (Optional) VRF name                            |
| <i>vrf-known-name</i> | (Optional) Known VRF name                      |
| all                   | (Optional) Display information for all VRFs    |
| __readonly__          | (Optional)                                     |
| TABLE_vrf             | (Optional)                                     |
| <i>vrf_name_stats</i> | (Optional)                                     |
| TABLE_routemap        | (Optional)                                     |
| <i>name</i>           | (Optional)                                     |
| <i>action</i>         | (Optional)                                     |
| <i>seq_num</i>        | (Optional)                                     |



|                           |            |
|---------------------------|------------|
| TABLE_cmd                 | (Optional) |
| <i>command</i>            | (Optional) |
| <i>compare_count</i>      | (Optional) |
| <i>match_count</i>        | (Optional) |
| <i>total_accept_count</i> | (Optional) |
| <i>total_reject_count</i> | (Optional) |

**Command Mode**

- /exec

## show ip pim policy statistics jp

```
show ip pim policy statistics { jp-policy | neighbor-policy } <interface> [ __readonly__ { TABLE_routemap
<name> <action> <seq_num> [ { TABLE_cmd <command> <compare_count> <match_count> } ] }
<total_accept_count> <total_reject_count> ]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information            |
| ip                        | Display IP information                     |
| pim                       | PIM global configuration commands          |
| policy                    | Policy related information                 |
| statistics                | Policy statistics                          |
| jp-policy                 | Statistics for jp-policy                   |
| neighbor-policy           | Statistics for neighbor-policy             |
| <i>interface</i>          | Interface to display policy statistics for |
| <i>__readonly__</i>       | (Optional)                                 |
| TABLE_routemap            | (Optional)                                 |
| <i>name</i>               | (Optional)                                 |
| <i>action</i>             | (Optional)                                 |
| <i>seq_num</i>            | (Optional)                                 |
| TABLE_cmd                 | (Optional)                                 |
| <i>command</i>            | (Optional)                                 |
| <i>compare_count</i>      | (Optional)                                 |
| <i>match_count</i>        | (Optional)                                 |
| <i>total_accept_count</i> | (Optional)                                 |
| <i>total_reject_count</i> | (Optional)                                 |

### Command Mode

- /exec

## show ip pim route

```
show ip pim route [ [ <source> [ <group> ] ] | [ <group> [ <source> ] ] ] [ bitfield ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf [ <context-name> ] [ <route-count> ] [
TABLE_one_route [ <mcast-addr> ] [ <rp-addr> ] [ <rp-local> ] [ <bidir> ] [ <sgexpire> ] [ <sgexpire> ]
[ <timeleft> ] [ <rp-bit> ] [ <register> ] [ <intf-name> ] [ <rpf-nbr-1> ] [ <rpf-nbr-addr> ] [ <intf-name-2> ]
[ <rpf-nbr-2> ] [ <uptime> ] [ <is-attached> ] [ <is-static> ] [ <zero-nonpim-oifs> ] [ <is-external> ] [
<otv-decap> ] [ <otv-router-mode> ] [ <non-dr-oifs-only> ] [ <data-created> ] [ <mdt-encap> ] [ <mdt-decap>
] [ <vxlan-decap> ] [ <vxlan-encap> ] [ <sw-pkts> ] [ <sw-bytes> ] [ <hw-pkts> ] [ <hw-bytes> ] [ <rpf-src>
] [ <mrib-rpf-notify> ] [ <add-pending> ] [ <aged-route> ] [ <sg-expiry-cfg> ] [ <jp-holdtime> ] [
<route-metric-internal> ] [ <metric-pref-internal> ] [ <delay-register-stop> ] [ <register-stop-rcvd> ] [
<lisp-src-rloc> ] [ TABLE_lisp_encap [ <encap-src-rloc> ] [ <encap-dst-rloc> ] [ <timeout-count> ] [
<add-pending> ] [ <del-pending> ] ] [ <oif-count> ] [ <oif-bf-str> ] [ <timeout-count> ] [ <timeout-bf-str> ]
[ <immediate-count> ] [ <immediate-bf-str> ] [ <immediate-timeout-count> ] [ <immediate-timeout-bf-str>
] [ <sg-prune-list-count> ] [ <sg-prune-list-bf-str> ] [ <timeout-interval> ] [ <jp-holdtime-rndup> ] [
<mdt-encap-index> ] ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| pim                   | Display PIM status and configuration        |
| route                 | Display PIM specific route information      |
| <i>group</i>          | (Optional) Group address to display         |
| <i>source</i>         | (Optional) Source address to display        |
| bitfield              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| __readonly__          | (Optional)                                  |
| TABLE_vrf             | (Optional)                                  |
| <i>context-name</i>   | (Optional)                                  |
| <i>route-count</i>    | (Optional)                                  |
| TABLE_one_route       | (Optional)                                  |
| <i>mcast-addr</i>     | (Optional)                                  |
| <i>rp-addr</i>        | (Optional)                                  |

|                         |            |
|-------------------------|------------|
| <i>rp-local</i>         | (Optional) |
| <i>bidir</i>            | (Optional) |
| <i>sgexpire</i>         | (Optional) |
| <i>sgrexpire</i>        | (Optional) |
| <i>timeleft</i>         | (Optional) |
| <i>rp-bit</i>           | (Optional) |
| <i>register</i>         | (Optional) |
| <i>intf-name</i>        | (Optional) |
| <i>rpf-nbr-1</i>        | (Optional) |
| <i>rpf-nbr-addr</i>     | (Optional) |
| <i>intf-name-2</i>      | (Optional) |
| <i>rpf-nbr-2</i>        | (Optional) |
| <i>uptime</i>           | (Optional) |
| <i>is-attached</i>      | (Optional) |
| <i>is-static</i>        | (Optional) |
| <i>zero-nonpim-oifs</i> | (Optional) |
| <i>is-external</i>      | (Optional) |
| <i>otv-decap</i>        | (Optional) |
| <i>otv-router-mode</i>  | (Optional) |
| <i>non-dr-oifs-only</i> | (Optional) |
| <i>data-created</i>     | (Optional) |
| <i>mdt-encap</i>        | (Optional) |
| <i>mdt-decap</i>        | (Optional) |
| <i>vxlان-decap</i>      | (Optional) |
| <i>vxlان-encap</i>      | (Optional) |
| <i>sw-pkts</i>          | (Optional) |
| <i>sw-bytes</i>         | (Optional) |
| <i>hw-pkts</i>          | (Optional) |
| <i>hw-bytes</i>         | (Optional) |

|                                 |            |
|---------------------------------|------------|
| <i>rpf-src</i>                  | (Optional) |
| <i>mrrib-rpf-notify</i>         | (Optional) |
| <i>add-pending</i>              | (Optional) |
| <i>aged-route</i>               | (Optional) |
| <i>sg-expiry-cfg</i>            | (Optional) |
| <i>jp-holdtime</i>              | (Optional) |
| <i>route-metric-internal</i>    | (Optional) |
| <i>metric-pref-internal</i>     | (Optional) |
| <i>delay-register-stop</i>      | (Optional) |
| <i>register-stop-rcvd</i>       | (Optional) |
| <i>lisp-src-rloc</i>            | (Optional) |
| TABLE_lisp_encap                | (Optional) |
| <i>encap-src-rloc</i>           | (Optional) |
| <i>encap-dst-rloc</i>           | (Optional) |
| <i>timeout-count</i>            | (Optional) |
| <i>add-pending</i>              | (Optional) |
| <i>del-pending</i>              | (Optional) |
| <i>oif-count</i>                | (Optional) |
| <i>oif-bf-str</i>               | (Optional) |
| <i>timeout-count</i>            | (Optional) |
| <i>timeout-bf-str</i>           | (Optional) |
| <i>immediate-count</i>          | (Optional) |
| <i>immediate-bf-str</i>         | (Optional) |
| <i>immediate-timeout-count</i>  | (Optional) |
| <i>immediate-timeout-bf-str</i> | (Optional) |
| <i>sgr-prune-list-count</i>     | (Optional) |
| <i>sgr-prune-list-bf-str</i>    | (Optional) |
| <i>timeout-interval</i>         | (Optional) |
| <i>jp-holdtime-rndup</i>        | (Optional) |

|                        |            |
|------------------------|------------|
| <i>mdt-encap-index</i> | (Optional) |
|------------------------|------------|

**Command Mode**

- /exec

## show ip pim rp-hash

```
show ip pim rp-hash <group> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-context>
[ <rp-found> ] [ <is-rp-bsr-learned> ] [ <out-group1> <rp-addr1> ] [ <out-group> <hash-length> <out-bsr> ]
[ { TABLE_rp <rp-addr> <hash> <isbest_hash> } ] ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information             |
| ip                       | Display IP information                      |
| pim                      | Display PIM status and configuration        |
| rp-hash                  | Display RP hash value for group             |
| <i>group</i>             | Group address for RP lookup                 |
| vrf                      | (Optional) Display per-VRF information      |
| <i>vrf-name</i>          | (Optional) VRF name                         |
| <i>vrf-known-name</i>    | (Optional) Known VRF name                   |
| all                      | (Optional) Display information for all VRFs |
| __readonly__             | (Optional)                                  |
| <i>out-context</i>       | (Optional)                                  |
| <i>rp-found</i>          | (Optional)                                  |
| <i>is-rp-bsr-learned</i> | (Optional)                                  |
| <i>out-group1</i>        | (Optional)                                  |
| <i>rp-addr1</i>          | (Optional)                                  |
| <i>out-group</i>         | (Optional)                                  |
| <i>hash-length</i>       | (Optional)                                  |
| <i>out-bsr</i>           | (Optional)                                  |
| TABLE_rp                 | (Optional)                                  |
| <i>rp-addr</i>           | (Optional)                                  |
| <i>hash</i>              | (Optional)                                  |
| <i>isbest_hash</i>       | (Optional)                                  |

### Command Mode

- /exec

# show ip pim rp

```
show ip pim rp [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ internal ] [ __readonly__ [
TABLE_vrf <out-context> [ <is-bsr-enabled> ] [ <is-bsr-listen-only> ] [ <is-bsr-forward-only> ] [ <bsr-address>
] [ <is-bsr-local> ] [ <bs-timer> ] [ <bsr-uptime> ] [ <bsr-expires> ] [ <bsr-priority> ] [ <bsr-hash-masklen>
] [ <is-autorp-enabled> ] [ <is-autorp-listen-only> ] [ <is-autorp-forward-only> ] [ <auto-rp-addr> ] [
<is-autorp-local> ] [ <autorp-dis-timer> ] [ <autorp-cand-address> ] [ <autorp-up-time> ] [ <autorp-expire-time>
] [ <rp-cand-policy-name> ] [ <bsr-policy-name> ] [ <rp-announce-policy-name> ] [
<rp-discovery-policy-name> ] [ TABLE_anycast_rp <anycast-rp-addr> [ TABLE_arp_rp <arp-rp-addr>
<is-rpaddr-local> ] ] [ TABLE_rp [ <rp-addr> ] [ <is-rp-local> ] [ <df-ordinal> ] [ <rp-uptime> ] [ <rp-priority>
] [ <is_autorp_source> ] [ <is_bsr_source> ] [ <is_static_source> ] [ <rp-source> ] [ <static-rp-group-map>
] ] [ TABLE_grange [ <grange-grp> ] [ <grange-masklen> ] [ <grange-is-deny> ] [ <is-bidir-grp> ] [
<autorp-expires> ] [ <bsr-rp-expires> ] [ <rp-owner-flags> ] ] [ [ <bidir-ordinal> ] [ <df-bits-recovered> ] [
<rpf-nbr-address> ] [ <metric> ] [ <metric-preference> ] ] ] ] ]
```

## Syntax Description

|                            |  |
|----------------------------|--|
| show                       | Show running system information                      |
| ip                         | Display IP information                               |
| pim                        | Display PIM status and configuration                 |
| rp                         | Display PIM RP, Auto-RP, and BSR related information |
| <i>group</i>               | (Optional) Display RP for group address              |
| internal                   | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED            |
| vrf                        | (Optional) Display per-VRF information               |
| <i>vrf-name</i>            | (Optional) VRF name                                  |
| <i>vrf-known-name</i>      | (Optional) Known VRF name                            |
| all                        | (Optional) Display information for all VRFs          |
| <i>__readonly__</i>        | (Optional)   |
| TABLE_vrf                  | (Optional)   |
| <i>out-context</i>         | (Optional)   |
| <i>is-bsr-enabled</i>      | (Optional)   |
| <i>is-bsr-listen-only</i>  | (Optional)   |
| <i>is-bsr-forward-only</i> | (Optional)   |
| <i>bsr-address</i>         | (Optional)   |
| <i>is-bsr-local</i>        | (Optional)   |
| <i>bsr-priority</i>        | (Optional)   |



|                                 |            |
|---------------------------------|------------|
| <i>bsr-hash-masklen</i>         | (Optional) |
| <i>bs-timer</i>                 | (Optional) |
| <i>bsr-uptime</i>               | (Optional) |
| <i>bsr-expires</i>              | (Optional) |
| <i>is-autorp-enabled</i>        | (Optional) |
| <i>is-autorp-listen-only</i>    | (Optional) |
| <i>is-autorp-forward-only</i>   | (Optional) |
| <i>auto-rp-addr</i>             | (Optional) |
| <i>autorp-cand-address</i>      | (Optional) |
| <i>is-autorp-local</i>          | (Optional) |
| <i>autorp-dis-timer</i>         | (Optional) |
| <i>autorp-up-time</i>           | (Optional) |
| <i>autorp-expire-time</i>       | (Optional) |
| <i>rp-cand-policy-name</i>      | (Optional) |
| <i>bsr-policy-name</i>          | (Optional) |
| <i>rp-announce-policy-name</i>  | (Optional) |
| <i>rp-discovery-policy-name</i> | (Optional) |
| TABLE_anycast_rp                | (Optional) |
| <i>anycast-rp-addr</i>          | (Optional) |
| TABLE_arp_rp                    | (Optional) |
| <i>arp-rp-addr</i>              | (Optional) |
| <i>is-rpaddr-local</i>          | (Optional) |
| TABLE_rp                        | (Optional) |
| <i>rp-addr</i>                  | (Optional) |
| <i>is-rp-local</i>              | (Optional) |
| <i>df-ordinal</i>               | (Optional) |
| <i>rp-uptime</i>                | (Optional) |
| <i>rp-priority</i>              | (Optional) |
| <i>is_autorp_source</i>         | (Optional) |

|                            |            |
|----------------------------|------------|
| <i>is_bsr_source</i>       | (Optional) |
| <i>is_static_source</i>    | (Optional) |
| <i>rp-source</i>           | (Optional) |
| <i>static-rp-group-map</i> | (Optional) |
| TABLE_grange               | (Optional) |
| <i>grange-grp</i>          | (Optional) |
| <i>grange-masklen</i>      | (Optional) |
| <i>grange-is-deny</i>      | (Optional) |
| <i>is-bidir-grp</i>        | (Optional) |
| <i>autorp-expires</i>      | (Optional) |
| <i>bsr-rp-expires</i>      | (Optional) |
| <i>rp-owner-flags</i>      | (Optional) |
| <i>bidir-ordinal</i>       | (Optional) |
| <i>df-bits-recovered</i>   | (Optional) |
| <i>rpf-nbr-address</i>     | (Optional) |
| <i>metric</i>              | (Optional) |
| <i>metric-preference</i>   | (Optional) |

### Command Mode

- /exec

## show ip pim statistics

```
show ip pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <vrf-name>
[ <uptime> <reg-sent> <reg-rcvd> <null-reg-sent> <null-reg-rcvd> <reg-stop-sent> <reg-stop-rcvd>
<reg-rcvd-not-rp> <reg-rcvd-for-ssm> <reg-rcvd-for-bidir> <bootstrap-sent> <bootstrap-rcvd> <cand-rp-sent>
<cand-rp-rcvd> <bs-no-nbr> <bs-border-deny> <bs-len-errors> <bs-rpf-failed> <bs-no-listen>
<candrp-border-deny> <candrp-no-listen> <autorp-announce-sent> <autorp-announce-rcvd>
<autorp-discovery-sent> <autorp-discovery-rcvd> <autorp-rpf-failed> <autorp-border-deny>
<autorp-invalid-type> <autorp-ttl-expired> <autorp-no-listen> <ctrl-no-route> <data-no-route> <no-state>
<create-state> ] ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information             |
| ip                        | Display IP information                      |
| pim                       | Display PIM status and configuration        |
| statistics                | Packet counter statistics                   |
| vrf                       | (Optional) Display per-VRF information      |
| <i>vrf-name</i>           | (Optional) VRF name                         |
| <i>vrf-known-name</i>     | (Optional) Known VRF name                   |
| all                       | (Optional) Display information for all VRFs |
| <i>__readonly__</i>       | (Optional)                                  |
| TABLE_vrf                 | (Optional)                                  |
| <i>vrf-name</i>           | (Optional)                                  |
| <i>uptime</i>             | (Optional)                                  |
| <i>reg-sent</i>           | (Optional)                                  |
| <i>reg-rcvd</i>           | (Optional)                                  |
| <i>null-reg-sent</i>      | (Optional)                                  |
| <i>null-reg-rcvd</i>      | (Optional)                                  |
| <i>reg-stop-sent</i>      | (Optional)                                  |
| <i>reg-stop-rcvd</i>      | (Optional)                                  |
| <i>reg-rcvd-not-rp</i>    | (Optional)                                  |
| <i>reg-rcvd-for-ssm</i>   | (Optional)                                  |
| <i>reg-rcvd-for-bidir</i> | (Optional)                                  |

|                              |            |
|------------------------------|------------|
| <i>bootstrap-sent</i>        | (Optional) |
| <i>bootstrap-rcvd</i>        | (Optional) |
| <i>cand-rp-sent</i>          | (Optional) |
| <i>cand-rp-rcvd</i>          | (Optional) |
| <i>bs-no-nbr</i>             | (Optional) |
| <i>bs-border-deny</i>        | (Optional) |
| <i>bs-len-errors</i>         | (Optional) |
| <i>bs-rpf-failed</i>         | (Optional) |
| <i>bs-no-listen</i>          | (Optional) |
| <i>candrp-border-deny</i>    | (Optional) |
| <i>candrp-no-listen</i>      | (Optional) |
| <i>autorp-announce-sent</i>  | (Optional) |
| <i>autorp-announce-rcvd</i>  | (Optional) |
| <i>autorp-discovery-sent</i> | (Optional) |
| <i>autorp-discovery-rcvd</i> | (Optional) |
| <i>autorp-rpf-failed</i>     | (Optional) |
| <i>autorp-border-deny</i>    | (Optional) |
| <i>autorp-invalid-type</i>   | (Optional) |
| <i>autorp-ttl-expired</i>    | (Optional) |
| <i>autorp-no-listen</i>      | (Optional) |
| <i>ctrl-no-route</i>         | (Optional) |
| <i>data-no-route</i>         | (Optional) |
| <i>no-state</i>              | (Optional) |
| <i>create-state</i>          | (Optional) |

**Command Mode**

- /exec

# show ip pim vrf

```
show ip pim vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ detail | internal ] [ __readonly__ {
TABLE_context <out-context> <context-id> <count> <table-id> <bfd> <mvpn> } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                   |
| ip                    | Display IP information                            |
| pim                   | Display PIM status and configuration              |
| vrf                   | Display per-VRF information                       |
| <i>vrf-name</i>       | (Optional) VRF name                               |
| <i>vrf-known-name</i> | (Optional) Known VRF name                         |
| all                   | (Optional) Display all VRFs PIM is configured for |
| detail                | (Optional) Display detailed information           |
| internal              | (Optional) VRF related internal information       |
| __readonly__          | (Optional)  |
| TABLE_context         | (Optional)  |
| <i>out-context</i>    | (Optional)  |
| <i>context-id</i>     | (Optional)  |
| <i>table-id</i>       | (Optional)  |
| <i>count</i>          | (Optional)  |
| <i>bfd</i>            | (Optional)  |
| <i>mvpn</i>           | (Optional)  |

## Command Mode

- /exec

## show ip ping source-interface

```
show ip ping source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ippingvrf
<vrfname> <ifname> } ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information        |
| ip                    | Display IP information                 |
| ping                  | Display ping client information        |
| source-interface      | Display source interface information   |
| vrf                   | (Optional) Display per-VRF information |
| <i>vrf-name</i>       | (Optional) VRF name                    |
| <i>vrf-known-name</i> | (Optional) Known VRF name              |
| <i>__readonly__</i>   | (Optional)                             |
| TABLE_ippingvrf       | (Optional) source interface of ping    |
| <i>vrfname</i>        | (Optional) vrfname                     |
| <i>ifname</i>         | (Optional) ifname                      |

### Command Mode

- /exec

# show ip ping source-interface vrf all

```
show ip ping source-interface vrf all [ __readonly__ [ { TABLE_ipping <vrfname> <ifname> } ] ]
```

## Syntax Description

|                  |                                      |
|------------------|--------------------------------------|
| show             | Show running system information      |
| ip               | Display IP information               |
| ping             | Display ping client information      |
| source-interface | Display source interface information |
| vrf              | Display per-VRF information          |
| all              | Display entries for all vrfs         |
| __readonly__     | (Optional)                           |
| TABLE_ipping     | (Optional) source interface of ping  |
| <i>vrfname</i>   | (Optional) vrfname                   |
| <i>ifname</i>    | (Optional) ifname                    |

## Command Mode

- /exec

# show ip policy

```
show ip policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ detail ] [ __readonly__ { TABLE_pbr [ <interface> ] [ <rmap> ] [ <status> ] [ <vrf_name> ] } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ip                    | Display IP information                      |
| policy                | Policy routing                              |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| detail                | (Optional) Detailed information             |
| __readonly__          | (Optional)                                  |
| TABLE_pbr             | (Optional)                                  |
| <i>interface</i>      | (Optional)                                  |
| <i>rmap</i>           | (Optional)                                  |
| <i>status</i>         | (Optional)                                  |
| <i>vrf_name</i>       | (Optional)                                  |

## Command Mode

- /exec



## show ip prefix-list

```
show ip prefix-list { { [ detail | summary ] [ <ipv4-pfl-name> | <ipv4-pfl-cfg-name> ] } | { <ipv4-pfl-name>
| <ipv4-pfl-cfg-name> } seq <seq-no> } | { { <ipv4-pfl-name> | <ipv4-pfl-cfg-name> } <prefix> [ first-match
| longer ] } } [ __readonly__ TABLE_ip_pfl <name> <seq> <action> <rule> ]
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information            |
| ip                       | Display IP information                     |
| detail                   | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED  |
| summary                  | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED  |
| prefix-list              | List IP prefix lists                       |
| <i>ipv4-pfl-name</i>     | (Optional) Name of prefix-list             |
| <i>ipv4-pfl-cfg-name</i> | (Optional) Known prefix-list name          |
| seq                      | Sequence number                            |
| <i>seq-no</i>            | Sequence number                            |
| <i>prefix</i>            | IP prefix network/length, e.g., 35.0.0.0/8 |
| first-match              | (Optional) Find the first match            |
| longer                   | (Optional) Find the more specific entries  |
| <i>__readonly__</i>      | (Optional)                                 |
| TABLE_ip_pfl             | (Optional)                                 |
| <i>name</i>              | (Optional)                                 |
| <i>seq</i>               | (Optional)                                 |
| <i>action</i>            | (Optional)                                 |
| <i>rule</i>              | (Optional)                                 |

### Command Mode

- /exec

# show ip process

```
show ip process [ api ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_ip_pro_vrf
[ { <pro-cntxt-name> <pro-cntxt-id> <pro-base-tid> <pro-auto-disc> <pro-atuo-add> <pro-null-bcast>
<auto-punt-bcast> <static-disc> <static-def-route> <ip-unreach> } ] [ TABLE_pro_api [ <api-vrf>
<api-cntxt-id> <api-base-tid> <api-ip-addr> <api-rtr-id-iod> ] ] [ TABLE_iod [ { <entry-iod> } ] ] [
TABLE_local_addr [ { <local-addr> } ] ] ] [ TABLE_ip_pro_all { <all-pro-cntxt-name> <all-pro-cntxt-id>
} ] ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information           |
| ip                      | Display IP information                    |
| process                 | Display IP global information             |
| api                     | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| vrf                     | (Optional) Display per-VRF information    |
| all                     | (Optional) Display all VRFs               |
| <i>vrf-name</i>         | (Optional) VRF name                       |
| <i>vrf-known-name</i>   | (Optional) Known VRF name                 |
| <i>__readonly__</i>     | (Optional)                                |
| TABLE_ip_pro_vrf        | (Optional)                                |
| <i>pro-cntxt-name</i>   | (Optional)                                |
| <i>pro-cntxt-id</i>     | (Optional)                                |
| <i>pro-base-tid</i>     | (Optional)                                |
| <i>pro-auto-disc</i>    | (Optional)                                |
| <i>pro-atuo-add</i>     | (Optional)                                |
| <i>pro-null-bcast</i>   | (Optional)                                |
| <i>auto-punt-bcast</i>  | (Optional)                                |
| <i>static-disc</i>      | (Optional)                                |
| <i>static-def-route</i> | (Optional)                                |
| <i>ip-unreach</i>       | (Optional)                                |
| TABLE_pro_api           | (Optional)                                |
| <i>api-vrf</i>          | (Optional)                                |

|                           |            |
|---------------------------|------------|
| <i>api-cntxt-id</i>       | (Optional) |
| <i>api-base-tid</i>       | (Optional) |
| <i>api-ip-addr</i>        | (Optional) |
| <i>api-rtr-id-iod</i>     | (Optional) |
| TABLE_iod                 | (Optional) |
| <i>entry-iod</i>          | (Optional) |
| TABLE_local_addr          | (Optional) |
| <i>local-addr</i>         | (Optional) |
| TABLE_ip_pro_all          | (Optional) |
| <i>all-pro-cntxt-name</i> | (Optional) |
| <i>all-pro-cntxt-id</i>   | (Optional) |

**Command Mode**

- /exec

## show ip rip policy statistics redistribute

```
show ip rip [ instance <inst> ] policy statistics redistribute { bgp <asn> | { eigrp | isis | <src-rip> | ospf } <tag>
| direct | static } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_asn <asn> TABLE_vrf
<vrf> [ TABLE_rmap [ <name> <action> <seq_num> ] [ TABLE_cmd <command> [ <compare_count> ]
<match_count> ] ] <total_accept_count> <total_reject_count> ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                     |
| ip                    | Display IP information                              |
| rip                   | Display RIP routing protocol status                 |
| instance              | (Optional) Process ID                               |
| <i>inst</i>           | (Optional) Process ID                               |
| policy                | Policy related information                          |
| statistics            | Policy statistics                                   |
| redistribute          | RIP redistribute routes from other routing protocol |
| bgp                   | Border Gateway Protocol (BGP)                       |
| eigrp                 | Enhanced Interior Gateway Routing Protocol (EIGRP)  |
| <i>as</i>             | Autonomous system number                            |
| isis                  | Intermediate-to-intermediate (ISIS)                 |
| src-rip               | Routing Information Protocol (RIP)                  |
| ospf                  | Open Shortest Path First (OSPFv2)                   |
| <i>tag</i>            | Process tag   |
| direct                | Directly connected routes                           |
| static                | Static routes                                       |
| vrf                   | (Optional) Display per-VRF information              |
| <i>vrf-name</i>       | (Optional) VRF name                                 |
| <i>vrf-known-name</i> | (Optional) Known VRF name                           |
| all                   | (Optional) Display information for all VRFs         |
| __readonly__          | (Optional)  |
| TABLE_asn             | (Optional) AS number table                          |

|                           |   |
|---------------------------|---|
| <i>asn</i>                | (Optional) AS number                                      |
| TABLE_vrf                 | (Optional) VRF table                                      |
| <i>vrf</i>                | (Optional) VRF name                                       |
| TABLE_rmap                | (Optional) Routemap table                                 |
| <i>name</i>               | (Optional) Route-map Name                                 |
| <i>action</i>             | (Optional) Route-map action                               |
| <i>seq_num</i>            | (Optional) Sequence number of the rule in route-map       |
| TABLE_cmd                 | (Optional) Route-map command table                        |
| <i>command</i>            | (Optional) Route-map command                              |
| <i>compare_count</i>      | (Optional) Number of comparisons                          |
| <i>match_count</i>        | (Optional) Number of matches                              |
| <i>total_accept_count</i> | (Optional) Total number of packets accepted by the policy |
| <i>total_reject_count</i> | (Optional) Total number of packets rejected by the policy |

**Command Mode**

- /exec

## show ip route

```
show ip route [ ip | ipv4 ] [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ip-addr> | {
<ip-prefix> [ { longer-prefixes | shorter-prefixes } ] } ] [ { <protocol> [ all ] } | { bind-label <bind-lbl> |
next-hop <next-hop> | next-hop-v6 <next-hop-v6> } | { interface <interface> } | { updated { [ since <stime>
] [ until <utime> ] } } ] + [ summary | detail ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [
__readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [ TABLE_prefix <ipprefix> <ucast-nhops>
<mcast-nhops> <attached> TABLE_path [ <ipnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl>
] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <unres> ] [ <hidden> ] [
<stale-label> ] [ <bgpbackuppath> ] [ <ubest> ] [ <mbest> ] ] [ TABLE_summary <routes> <paths> [
<multicast_paths> ] [ TABLE_unicast [ <clientnameuni> ] [ <best-paths> ] [ <backup-paths> ] ] [
TABLE_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE_route_count [
<mask_len> ] [ <count> ] ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                                 |
| ip                    | Display IP information  |
| route                 | Display routing information                                     |
| vrf                   | (Optional) Display per-VRF information                          |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                       |
| vrf-all               | (Optional) Display information for all VRFs                     |
| ipv4                  | (Optional) Display IP information                               |
| unicast               | (Optional) Display unicast information                          |
| topology              | (Optional) Display per-topology information                     |
| <i>topology-name</i>  | (Optional) topology name  |
| l3vm-info             | (Optional) Display corresponding L3VM information               |
| rpf                   | (Optional) Display RPF information for multicast source         |
| <i>ip-addr</i>        | (Optional) Display single route longest match lookup            |
| <i>ip-prefix</i>      | (Optional) Display single exact match route                     |
| longer-prefixes       | (Optional) Display matching routes with mask-lengths >= prefix  |
| shorter-prefixes      | (Optional) Display matching routes with mask-lengths <= prefix  |
| <i>protocol</i>       | (Optional) Display routes for protocol (or route type)          |
| all                   | (Optional) Display routes for protocol for backup next-hops too |

|                         |   |
|-------------------------|---|
| bind-label              | (Optional) Display routes with this bind-label only         |
| <i>bind-lbl</i>         | (Optional) Binding label                                    |
| next-hop                | (Optional) Display routes with this next-hop only           |
| <i>next-hop</i>         | (Optional) Next hop address                                 |
| next-hop-v6             | (Optional) Display routes with this V6 next-hop only        |
| interface               | (Optional) Display routes with this output interface only   |
| <i>interface</i>        | (Optional) Interface Name                                   |
| updated                 | (Optional) Display routes filtered by last updated time     |
| since                   | (Optional) Display those routes updated since this time     |
| <i>stime</i>            | (Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS] |
| until                   | (Optional) Display those routes updated until this time     |
| <i>utime</i>            | (Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS] |
| summary                 | (Optional) Display route counts                             |
| detail                  | (Optional) Display routes in full detail                    |
| <u>__readonly__</u>     | (Optional)  |
| TABLE_vrf               | (Optional)  |
| <i>vrf-name-out</i>     | (Optional)  |
| TABLE_addrf             | (Optional)  |
| <i>addrf</i>            | (Optional)  |
| TABLE_prefix            | (Optional)  |
| <i>ipprefix</i>         | (Optional)  |
| <i>ucast-nhops</i>      | (Optional)  |
| <i>mcast-nhops</i>      | (Optional)  |
| <i>attached</i>         | (Optional)  |
| TABLE_path              | (Optional)  |
| <i>ipnexthop</i>        | (Optional)  |
| <i>nexthop-vrf-name</i> | (Optional)  |
| <i>ifname</i>           | (Optional)  |
| <i>bindlbl</i>          | (Optional)  |

|                        |            |
|------------------------|------------|
| <i>uptime</i>          | (Optional) |
| <i>pref</i>            | (Optional) |
| <i>metric</i>          | (Optional) |
| <i>clientname</i>      | (Optional) |
| <i>type</i>            | (Optional) |
| <i>tag</i>             | (Optional) |
| <i>stale</i>           | (Optional) |
| <i>unres</i>           | (Optional) |
| <i>hidden</i>          | (Optional) |
| <i>stale-label</i>     | (Optional) |
| <i>bgpbackuppath</i>   | (Optional) |
| <i>ubest</i>           | (Optional) |
| <i>mbest</i>           | (Optional) |
| TABLE_summary          | (Optional) |
| <i>routes</i>          | (Optional) |
| <i>paths</i>           | (Optional) |
| <i>multicast_paths</i> | (Optional) |
| TABLE_unicast          | (Optional) |
| <i>clientnameuni</i>   | (Optional) |
| <i>best-paths</i>      | (Optional) |
| <i>backup-paths</i>    | (Optional) |
| TABLE_multicast        | (Optional) |
| <i>clientnamemulti</i> | (Optional) |
| <i>best-paths</i>      | (Optional) |
| <i>backup-paths</i>    | (Optional) |
| TABLE_route_count      | (Optional) |
| <i>mask_len</i>        | (Optional) |
| <i>count</i>           | (Optional) |

**Command Mode**



- /exec

# show ip sla application

```
show ip sla application [ __readonly__ <version> [ <line-length> ] <type-name> <feature-name>
<lowmemorymark> <max-entries> <probe-cap> <entries-config> <entries-active> <entries-pending>
<entries-inactive> <last-change-time> <rttMonApplReset> [ <rttMonApplTimeOfLastSet> ] ]
```

## Syntax Description

|                                |                               |
|--------------------------------|-------------------------------|
| show                           |                               |
| ip                             |                               |
| sla                            | Service Level Agreement (SLA) |
| application                    | IP SLAs Application           |
| <i>__readonly__</i>            | (Optional)                    |
| <i>version</i>                 | (Optional)                    |
| <i>line-length</i>             | (Optional)                    |
| <i>type-name</i>               | (Optional)                    |
| <i>feature-name</i>            | (Optional)                    |
| <i>lowmemorymark</i>           | (Optional)                    |
| <i>max-entries</i>             | (Optional)                    |
| <i>probe-cap</i>               | (Optional)                    |
| <i>entries-config</i>          | (Optional)                    |
| <i>entries-active</i>          | (Optional)                    |
| <i>entries-pending</i>         | (Optional)                    |
| <i>entries-inactive</i>        | (Optional)                    |
| <i>last-change-time</i>        | (Optional)                    |
| <i>rttMonApplReset</i>         | (Optional) Appl Reset         |
| <i>rttMonApplTimeOfLastSet</i> | (Optional)                    |

## Command Mode

- /exec

## show ip sla configuration

```
show ip sla configuration [ <entry-num> ] [ __readonly__ { TABLE_configuration [ <index> ] [ <owner> ]
[ <tag> ] [ <timeout> ] [ <oper-type> ] [ <dest-ip> ] [ <source-int> ] [ <source-ip> ] [ <dest-port> ] [
<source-port> ] [ <dns-source-port> ] [ <traffic-class> ] [ <tos> ] [ <dns-name-server> ] [ <flow-label> ] [
<switch-id> ] [ <profile-id> ] [ <interface> ] [ <packet-size> ] [ <packet-interval> ] [ <num-packets> ] [
<codec-type> ] [ <codec-num-packets> ] [ <codec-packet-size> ] [ <codec-packet-interval> ] [
<codec-adv-factor> ] [ <verify-data> ] [ <data-pattern> ] [ <precision> ] [ <packet-priority> ] [
<ntp-sync-tolerance> ] [ <ntp-sync-to-type> ] [ <vrf-name> ] [ <control-enabled> ] [ <http-oper> ] [
<http-version> ] [ <url> ] [ <proxy> ] [ <raw-strings> ] [ <cache-control> ] [ <http-vrf-name> ] [ <http-owner>
] [ <http-tag> ] [ <http-timeout> ] [ <frequency> ] [ <secondary-freq-timeout> ] [ <secondary-freq-loss> ] [
<next-start-time> ] [ <group-scheduled> ] [ <randomly-scheduled> ] [ <low-frequency> ] [ <high-frequency>
] [ <life> ] [ <ageout> ] [ <recurring> ] [ <status-of-entry> ] [ <threshold> ] [ <hours> ] [ <buckets> ] [
<interval> ] [ <einterval> ] [ <ebuckets> ] [ <lives> ] [ <hsbuckets> ] [ <filter> ] }
```

### Syntax Description

|                        |  |
|------------------------|--|
| show                   |  |
| ip                     |  |
| sla                    | Service Level Agreement (SLA)                    |
| configuration          | IP SLA configuration                             |
| <i>entry-num</i>       | (Optional) Entry Number                          |
| <i>__readonly__</i>    | (Optional)                                       |
| TABLE_configuration    | (Optional) show ip sla configuration information |
| <i>index</i>           | (Optional)                                       |
| <i>owner</i>           | (Optional)                                       |
| <i>tag</i>             | (Optional)                                       |
| <i>timeout</i>         | (Optional)                                       |
| <i>oper-type</i>       | (Optional)                                       |
| <i>dest-ip</i>         | (Optional)                                       |
| <i>source-int</i>      | (Optional)                                       |
| <i>source-ip</i>       | (Optional)                                       |
| <i>dest-port</i>       | (Optional)                                       |
| <i>source-port</i>     | (Optional)                                       |
| <i>dns-source-port</i> | (Optional)                                       |
| <i>traffic-class</i>   | (Optional)                                       |

|                              |            |
|------------------------------|------------|
| <i>tos</i>                   | (Optional) |
| <i>dns-name-server</i>       | (Optional) |
| <i>flow-label</i>            | (Optional) |
| <i>profile-id</i>            | (Optional) |
| <i>switch-id</i>             | (Optional) |
| <i>interface</i>             | (Optional) |
| <i>packet-size</i>           | (Optional) |
| <i>packet-interval</i>       | (Optional) |
| <i>num-packets</i>           | (Optional) |
| <i>codec-type</i>            | (Optional) |
| <i>codec-num-packets</i>     | (Optional) |
| <i>codec-packet-size</i>     | (Optional) |
| <i>codec-packet-interval</i> | (Optional) |
| <i>codec-adv-factor</i>      | (Optional) |
| <i>verify-data</i>           | (Optional) |
| <i>data-pattern</i>          | (Optional) |
| <i>precision</i>             | (Optional) |
| <i>packet-priority</i>       | (Optional) |
| <i>ntp-sync-tolerance</i>    | (Optional) |
| <i>ntp-sync-toltype</i>      | (Optional) |
| <i>vrf-name</i>              | (Optional) |
| <i>control-enabled</i>       | (Optional) |
| <i>http-oper</i>             | (Optional) |
| <i>http-version</i>          | (Optional) |
| <i>url</i>                   | (Optional) |
| <i>proxy</i>                 | (Optional) |
| <i>raw-strings</i>           | (Optional) |
| <i>cache-control</i>         | (Optional) |
| <i>http-vrf-name</i>         | (Optional) |

|                               |            |
|-------------------------------|------------|
| <i>http-owner</i>             | (Optional) |
| <i>http-tag</i>               | (Optional) |
| <i>http-timeout</i>           | (Optional) |
| <i>frequency</i>              | (Optional) |
| <i>secondary-freq-timeout</i> | (Optional) |
| <i>secondary-freq-loss</i>    | (Optional) |
| <i>next-start-time</i>        | (Optional) |
| <i>group-scheduled</i>        | (Optional) |
| <i>randomly-scheduled</i>     | (Optional) |
| <i>low-frequency</i>          | (Optional) |
| <i>high-frequency</i>         | (Optional) |
| <i>life</i>                   | (Optional) |
| <i>ageout</i>                 | (Optional) |
| <i>recurring</i>              | (Optional) |
| <i>status-of-entry</i>        | (Optional) |
| <i>threshold</i>              | (Optional) |
| <i>hours</i>                  | (Optional) |
| <i>buckets</i>                | (Optional) |
| <i>interval</i>               | (Optional) |
| <i>einterval</i>              | (Optional) |
| <i>ebuckets</i>               | (Optional) |
| <i>lives</i>                  | (Optional) |
| <i>hsbuckets</i>              | (Optional) |
| <i>filter</i>                 | (Optional) |

### Command Mode

- /exec

## show ip sla enhanced-history collection-statistics

```
show ip sla enhanced-history collection-statistics [ <operation-number> [ interval <interval-in-secs> ] ] [
__readonly__ [ { TABLE_generic [ <entry-num> ] [ <aggregate-interval> ] [ { TABLE_bkt [ <bkt-index> ]
[ <agg-sti> ] [ <tgt-addr> ] [ <oper-type> ] [ <nofod> ] [ <nofot> ] [ <nofob> ] [ <nofonc> ] [ <nofoie> ] [
<nofose> ] [ <nofove> ] [ <ntp-state> ] [ <icpif> ] [ <mos-score> ] [ <rtt-values> ] [ <num-rtt> ] [ <rtt-avg>
] [ <rtt-min> ] [ <rtt-max> ] [ <rtt-sum> ] [ <rtt-sum2> ] [ <num-out-sync-rtt> ] [ <plsd> ] [ <plds> ] [ <pos>
] [ <pl-mia> ] [ <pla> ] [ <int-err> ] [ <busies> ] [ <pkt-skipped> ] [ <jitter-value-precision> ] [ <min-pos-sd>
] [ <max-pos-sd> ] [ <num-pos-sd> ] [ <sum-pos-sd> ] [ <sum2-pos-sd> ] [ <min-neg-sd> ] [ <max-neg-sd>
] [ <num-neg-sd> ] [ <sum-neg-sd> ] [ <sum2-neg-sd> ] [ <min-pos-ds> ] [ <max-pos-ds> ] [ <num-pos-ds>
] [ <sum-pos-ds> ] [ <sum2-pos-ds> ] [ <min-neg-ds> ] [ <max-neg-ds> ] [ <num-neg-ds> ] [ <sum-neg-ds>
] [ <sum2-neg-ds> ] [ <jitter-avg> ] [ <jitter-sd-avg> ] [ <jitter-ds-avg> ] [ <inter-jit-out> ] [ <inter-jit-in> ]
[ <ow-precision> ] [ <num-ow> ] [ <ow-min-sd> ] [ <ow-max-sd> ] [ <ow-sum-sd> ] [ <ow-sum2-sd> ] [
<ow-min-ds> ] [ <ow-max-ds> ] [ <ow-sum-ds> ] [ <ow-sum2-ds> ] [ <avg-ow-sd> ] [ <avg-ow-ds> ] } ] [
<outstring> } } ] ]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      |  |
| ip                        |  |
| sla                       | Service Level Agreement (SLA)              |
| enhanced-history          | IP SLAs Enhanced History                   |
| collection-statistics     | IP SLAs Collection Statistics              |
| <i>operation-number</i>   | (Optional) Entry Number                    |
| interval                  | (Optional) Aggregation Interval            |
| <i>interval-in-secs</i>   | (Optional) Interval in seconds             |
| <i>__readonly__</i>       | (Optional)                                 |
| TABLE_generic             | (Optional) Show History Information        |
| <i>entry-num</i>          | (Optional)                                 |
| <i>aggregate-interval</i> | (Optional)                                 |
| TABLE_bkt                 | (Optional) Show bucket History Information |
| <i>bkt-index</i>          | (Optional)                                 |
| <i>agg-sti</i>            | (Optional)                                 |
| <i>tgt-addr</i>           | (Optional)                                 |
| <i>oper-type</i>          | (Optional)                                 |
| <i>nofod</i>              | (Optional)                                 |

|                               |            |
|-------------------------------|------------|
| <i>nofot</i>                  | (Optional) |
| <i>nofob</i>                  | (Optional) |
| <i>nofonc</i>                 | (Optional) |
| <i>nofoie</i>                 | (Optional) |
| <i>nofose</i>                 | (Optional) |
| <i>nofove</i>                 | (Optional) |
| <i>ntp-state</i>              | (Optional) |
| <i>icpif</i>                  | (Optional) |
| <i>mos-score</i>              | (Optional) |
| <i>rtt-values</i>             | (Optional) |
| <i>num-rtt</i>                | (Optional) |
| <i>rtt-avg</i>                | (Optional) |
| <i>rtt-min</i>                | (Optional) |
| <i>rtt-max</i>                | (Optional) |
| <i>rtt-sum</i>                | (Optional) |
| <i>rtt-sum2</i>               | (Optional) |
| <i>num-out-sync-rtt</i>       | (Optional) |
| <i>plsd</i>                   | (Optional) |
| <i>plds</i>                   | (Optional) |
| <i>pos</i>                    | (Optional) |
| <i>pl-mia</i>                 | (Optional) |
| <i>pla</i>                    | (Optional) |
| <i>int-err</i>                | (Optional) |
| <i>busies</i>                 | (Optional) |
| <i>pkt-skipped</i>            | (Optional) |
| <i>jitter-value-precision</i> | (Optional) |
| <i>min-pos-sd</i>             | (Optional) |
| <i>max-pos-sd</i>             | (Optional) |
| <i>num-pos-sd</i>             | (Optional) |

|                      |            |
|----------------------|------------|
| <i>sum-pos-sd</i>    | (Optional) |
| <i>sum2-pos-sd</i>   | (Optional) |
| <i>min-neg-sd</i>    | (Optional) |
| <i>max-neg-sd</i>    | (Optional) |
| <i>num-neg-sd</i>    | (Optional) |
| <i>sum-neg-sd</i>    | (Optional) |
| <i>sum2-neg-sd</i>   | (Optional) |
| <i>min-pos-ds</i>    | (Optional) |
| <i>max-pos-ds</i>    | (Optional) |
| <i>num-pos-ds</i>    | (Optional) |
| <i>sum-pos-ds</i>    | (Optional) |
| <i>sum2-pos-ds</i>   | (Optional) |
| <i>min-neg-ds</i>    | (Optional) |
| <i>max-neg-ds</i>    | (Optional) |
| <i>num-neg-ds</i>    | (Optional) |
| <i>sum-neg-ds</i>    | (Optional) |
| <i>sum2-neg-ds</i>   | (Optional) |
| <i>jitter-avg</i>    | (Optional) |
| <i>jitter-sd-avg</i> | (Optional) |
| <i>jitter-ds-avg</i> | (Optional) |
| <i>inter-jit-out</i> | (Optional) |
| <i>inter-jit-in</i>  | (Optional) |
| <i>ow-precision</i>  | (Optional) |
| <i>num-ow</i>        | (Optional) |
| <i>ow-min-sd</i>     | (Optional) |
| <i>ow-max-sd</i>     | (Optional) |
| <i>ow-sum-sd</i>     | (Optional) |
| <i>ow-sum2-sd</i>    | (Optional) |
| <i>ow-min-ds</i>     | (Optional) |



|                   |            |
|-------------------|------------|
| <i>ow-max-ds</i>  | (Optional) |
| <i>ow-sum-ds</i>  | (Optional) |
| <i>ow-sum2-ds</i> | (Optional) |
| <i>avg-ow-sd</i>  | (Optional) |
| <i>avg-ow-ds</i>  | (Optional) |
| <i>outstring</i>  | (Optional) |

**Command Mode**

- /exec

## show ip sla enhanced-history distribution-statistics

```
show ip sla enhanced-history distribution-statistics [ <operation-number> [ interval <interval-in-secs> ] ] [
__readonly__ [ <hdr> ] [ { TABLE_generic [ <col1> ] [ <col2> ] [ <col3> } ] ] ]
```

### Syntax Description

|                         |                                     |
|-------------------------|-------------------------------------|
| show                    |                                     |
| ip                      |                                     |
| sla                     | Service Level Agreement (SLA)       |
| enhanced-history        | IP SLAs Enhanced History            |
| distribution-statistics | IP SLAs Distribution Statistics     |
| <i>operation-number</i> | (Optional) Entry Number             |
| interval                | (Optional) Aggregation Interval     |
| <i>interval-in-secs</i> | (Optional) Interval in seconds      |
| <i>__readonly__</i>     | (Optional)                          |
| <i>hdr</i>              | (Optional)                          |
| TABLE_generic           | (Optional) Show History Information |
| <i>col1</i>             | (Optional)                          |
| <i>col2</i>             | (Optional)                          |
| <i>col3</i>             | (Optional)                          |

### Command Mode

- /exec

# show ip sla group schedule

```
show ip sla group schedule [ <group-operation-number> ] [ __readonly__ [ <entry-number> ] [ <probe-list>
] [ <num-probes> ] [ <sched-period> ] [ <mode> ] [ <low-freq> ] [ <high-freq> ] [ <freq> ] [ <snmp-status>
] [ <next-start-time> ] [ <life> ] [ <ageout> ] ]
```

## Syntax Description

|                               |  |
|-------------------------------|--|
| show                          |  |
| ip                            |  |
| sla                           | Service Level Agreement (SLA)          |
| group                         | IP SLAs Group Scheduling/Configuration |
| schedule                      | Group Scheduling                       |
| <i>group-operation-number</i> | (Optional) Group Schedule Entry Number |
| <i>__readonly__</i>           | (Optional)                             |
| <i>entry-number</i>           | (Optional)                             |
| <i>probe-list</i>             | (Optional)                             |
| <i>num-probes</i>             | (Optional)                             |
| <i>sched-period</i>           | (Optional)                             |
| <i>mode</i>                   | (Optional)                             |
| <i>low-freq</i>               | (Optional)                             |
| <i>high-freq</i>              | (Optional)                             |
| <i>freq</i>                   | (Optional)                             |
| <i>snmp-status</i>            | (Optional)                             |
| <i>next-start-time</i>        | (Optional)                             |
| <i>life</i>                   | (Optional)                             |
| <i>ageout</i>                 | (Optional)                             |

## Command Mode

- /exec

## show ip sla history

```
show ip sla history [ <operation-number> ] [ tabular | full | interval-statistics ] [ __readonly__ [ <outstring> ] ] [ { TABLE_generic [ <index> ] [ <life-index> ] [ <bucket-index> ] [ <col1> ] [ <addr> ] [ <dest-id> ] [ <nsr> ] [ <st> ] [ <latest-rtt> ] [ <latest-ret-code> ] [ <col2> } } ] [ <error> ] ]
```

### Syntax Description

|                         |                                       |
|-------------------------|---------------------------------------|
| show                    |                                       |
| ip                      |                                       |
| sla                     | Service Level Agreement (SLA)         |
| history                 | IP SLAs History                       |
| <i>operation-number</i> | (Optional) Entry Number               |
| tabular                 | (Optional) Compact Output             |
| full                    | (Optional) Listed Output              |
| interval-statistics     | (Optional) Interval statistics output |
| <i>__readonly__</i>     | (Optional)                            |
| <i>outstring</i>        | (Optional)                            |
| TABLE_generic           | (Optional) Show History Information   |
| <i>index</i>            | (Optional)                            |
| <i>life-index</i>       | (Optional)                            |
| <i>bucket-index</i>     | (Optional)                            |
| <i>col1</i>             | (Optional)                            |
| <i>addr</i>             | (Optional)                            |
| <i>dest-id</i>          | (Optional)                            |
| <i>nsr</i>              | (Optional)                            |
| <i>st</i>               | (Optional)                            |
| <i>latest-rtt</i>       | (Optional)                            |
| <i>latest-ret-code</i>  | (Optional)                            |
| <i>col2</i>             | (Optional)                            |
| <i>error</i>            | (Optional)                            |

### Command Mode

- /exec

## show ip sla reaction-configuration

```
show ip sla reaction-configuration [ <entry-num> ] [ __readonly__ { TABLE_reaction [ <entry-number> ] [
<index> ] [ <reaction> ] [ <threshold-type> ] [ <rising-value> ] [ <falling-value> ] [ <threshold-countX> ] [
<threshold-countY> ] [ <action-type> ] [ <unconfigured> } } ]
```

### Syntax Description

|                         |                                |
|-------------------------|--------------------------------|
| show                    |                                |
| ip                      |                                |
| sla                     | Service Level Agreement (SLA)  |
| reaction-configuration  | IP SLAs Reaction Configuration |
| <i>entry-num</i>        | (Optional) Entry Number        |
| <i>__readonly__</i>     | (Optional)                     |
| <i>TABLE_reaction</i>   | (Optional)                     |
| <i>entry-number</i>     | (Optional)                     |
| <i>index</i>            | (Optional)                     |
| <i>reaction</i>         | (Optional)                     |
| <i>threshold-type</i>   | (Optional)                     |
| <i>rising-value</i>     | (Optional)                     |
| <i>falling-value</i>    | (Optional)                     |
| <i>threshold-countX</i> | (Optional)                     |
| <i>threshold-countY</i> | (Optional)                     |
| <i>action-type</i>      | (Optional)                     |
| <i>unconfigured</i>     | (Optional)                     |

### Command Mode

- /exec

# show ip sla reaction-trigger

```
show ip sla reaction-trigger [ <entry-num> ] [ __readonly__ { TABLE_trigger [ <entry-number> ] [ <index>
] [ <target-entry> ] [ <snmp-status> ] [ <operational-state> ] [ <unconfigured> } ] }
```

## Syntax Description

|                          |                               |
|--------------------------|-------------------------------|
| show                     |                               |
| ip                       |                               |
| sla                      | Service Level Agreement (SLA) |
| reaction-trigger         | IP SLAs Reaction Trigger      |
| <i>entry-num</i>         | (Optional) Entry Number       |
| <i>__readonly__</i>      | (Optional)                    |
| <i>TABLE_trigger</i>     | (Optional)                    |
| <i>entry-number</i>      | (Optional)                    |
| <i>index</i>             | (Optional)                    |
| <i>target-entry</i>      | (Optional)                    |
| <i>snmp-status</i>       | (Optional)                    |
| <i>operational-state</i> | (Optional)                    |
| <i>unconfigured</i>      | (Optional)                    |

## Command Mode

- /exec

## show ip sla responder

```
show ip sla responder [ __readonly__ <rttMonApplResponder> <gen-enabled> [ <ctrl-msg-count> ] [ <errors>
] [ <print-recent-hdr> ] [ { TABLE_recent [ <recent-addr> ] [ <recent-time> ] } ] [ <print-recent-err-hdr> ] [
{ TABLE_recent_error [ <recent-error> ] } ] <perm-enabled> [ { TABLE_permanent_udp [ <print-udp-hdr>
] [ <address> ] [ <port> ] } ] [ { TABLE_permanent_tcp [ <print-tcp-hdr> ] [ <address> ] [ <port> ] } ] ]
```

### Syntax Description

|                             |  |
|-----------------------------|--|
| show                        |  |
| ip                          |  |
| sla                         | Service Level Agreement (SLA)                          |
| responder                   | IP SLAs Responder Information                          |
| <i>__readonly__</i>         | (Optional)   |
| <i>rttMonApplResponder</i>  | (Optional) rttMonApplResponder                         |
| <i>gen-enabled</i>          | (Optional)   |
| <i>ctrl-msg-count</i>       | (Optional)   |
| <i>errors</i>               | (Optional)   |
| <i>print-recent-hdr</i>     | (Optional)   |
| TABLE_recent                | (Optional) Show recent control message information     |
| <i>recent-addr</i>          | (Optional)   |
| <i>recent-time</i>          | (Optional)   |
| <i>print-recent-err-hdr</i> | (Optional)   |
| TABLE_recent_error          | (Optional) Show recent control error information       |
| <i>recent-error</i>         | (Optional)   |
| <i>perm-enabled</i>         | (Optional)   |
| TABLE_permanent_udp         | (Optional) Show UDP permanent port/address information |
| <i>print-udp-hdr</i>        | (Optional)   |
| <i>address</i>              | (Optional)   |
| <i>port</i>                 | (Optional)   |
| TABLE_permanent_tcp         | (Optional) Show TCP permanent port/address information |
| <i>print-tcp-hdr</i>        | (Optional)   |



|                |            |
|----------------|------------|
| <i>address</i> | (Optional) |
| <i>port</i>    | (Optional) |

**Command Mode**

- /exec



|                           |  |
|---------------------------|--|
| <i>top</i>                | (Optional)   |
| TABLE_detail              | (Optional) Show ip sla statistics detail information |
| <i>sti</i>                | (Optional)   |
| <i>operation-type</i>     | (Optional)   |
| <i>MINICPIF</i>           | (Optional)   |
| <i>MAXICPIF</i>           | (Optional)   |
| <i>MINMOS</i>             | (Optional)   |
| <i>MAXMOS</i>             | (Optional)   |
| <i>update-count</i>       | (Optional)   |
| <i>micro-accuracy</i>     | (Optional)   |
| <i>nano-accuracy</i>      | (Optional)   |
| <i>latest-RTT</i>         | (Optional)   |
| <i>latest-return-code</i> | (Optional)   |
| <i>latest-start-time</i>  | (Optional)   |
| <i>http-dns-rtt</i>       | (Optional)   |
| <i>http-tcp-rtt</i>       | (Optional)   |
| <i>http-ttfb</i>          | (Optional)   |
| <i>http-rtt</i>           | (Optional)   |
| <i>http-status</i>        | (Optional)   |
| <i>http-recvlen</i>       | (Optional)   |
| <i>http-bodysize</i>      | (Optional)   |
| <i>http-dns-timeout</i>   | (Optional)   |
| <i>http-tcp-timeout</i>   | (Optional)   |
| <i>http-t-timeout</i>     | (Optional)   |
| <i>http-dns-error</i>     | (Optional)   |
| <i>http-tcp-error</i>     | (Optional)   |
| <i>http-t-error</i>       | (Optional)   |
| <i>ntp-sync-state</i>     | (Optional)   |
| <i>rtt-count</i>          | (Optional)   |

|                           |            |
|---------------------------|------------|
| <i>rtt-min</i>            | (Optional) |
| <i>rtt-avg</i>            | (Optional) |
| <i>rtt-max</i>            | (Optional) |
| <i>lat-ow-samples</i>     | (Optional) |
| <i>sd-lat-ow-min</i>      | (Optional) |
| <i>sd-lat-ow-avg</i>      | (Optional) |
| <i>sd-lat-ow-max</i>      | (Optional) |
| <i>ds-lat-ow-min</i>      | (Optional) |
| <i>ds-lat-ow-avg</i>      | (Optional) |
| <i>ds-lat-ow-max</i>      | (Optional) |
| <i>sd-lat-sum</i>         | (Optional) |
| <i>sd-lat-sum2</i>        | (Optional) |
| <i>ds-lat-sum</i>         | (Optional) |
| <i>ds-lat-sum2</i>        | (Optional) |
| <i>sd-jitter-count</i>    | (Optional) |
| <i>ds-jitter-count</i>    | (Optional) |
| <i>sd-jitter-min</i>      | (Optional) |
| <i>sd-jitter-avg</i>      | (Optional) |
| <i>sd-jitter-max</i>      | (Optional) |
| <i>ds-jitter-min</i>      | (Optional) |
| <i>ds-jitter-avg</i>      | (Optional) |
| <i>ds-jitter-max</i>      | (Optional) |
| <i>sd-pos-jitter-min</i>  | (Optional) |
| <i>sd-pos-jitter-avg</i>  | (Optional) |
| <i>sd-pos-jitter-max</i>  | (Optional) |
| <i>sd-pos-jitter-num</i>  | (Optional) |
| <i>sd-pos-jitter-sum</i>  | (Optional) |
| <i>sd-pos-jitter-sum2</i> | (Optional) |
| <i>sd-neg-jitter-min</i>  | (Optional) |

|                           |            |
|---------------------------|------------|
| <i>sd-neg-jitter-avg</i>  | (Optional) |
| <i>sd-neg-jitter-max</i>  | (Optional) |
| <i>sd-neg-jitter-num</i>  | (Optional) |
| <i>sd-neg-jitter-sum</i>  | (Optional) |
| <i>sd-neg-jitter-sum2</i> | (Optional) |
| <i>ds-pos-jitter-min</i>  | (Optional) |
| <i>ds-pos-jitter-avg</i>  | (Optional) |
| <i>ds-pos-jitter-max</i>  | (Optional) |
| <i>ds-pos-jitter-num</i>  | (Optional) |
| <i>ds-pos-jitter-sum</i>  | (Optional) |
| <i>ds-pos-jitter-sum2</i> | (Optional) |
| <i>ds-neg-jitter-min</i>  | (Optional) |
| <i>ds-neg-jitter-avg</i>  | (Optional) |
| <i>ds-neg-jitter-max</i>  | (Optional) |
| <i>ds-neg-jitter-num</i>  | (Optional) |
| <i>ds-neg-jitter-sum</i>  | (Optional) |
| <i>ds-neg-jitter-sum2</i> | (Optional) |
| <i>pkt-unprocessed</i>    | (Optional) |
| <i>pkt-loss</i>           | (Optional) |
| <i>pkt-loss-per</i>       | (Optional) |
| <i>pkt-loss-min</i>       | (Optional) |
| <i>pkt-loss-max</i>       | (Optional) |
| <i>pkt-loss-inter-min</i> | (Optional) |
| <i>pkt-loss-inter-max</i> | (Optional) |
| <i>inter-jitter-out</i>   | (Optional) |
| <i>inter-jitter-in</i>    | (Optional) |
| <i>jitter-avg</i>         | (Optional) |
| <i>pkt-loss-sd</i>        | (Optional) |
| <i>pkt-loss-sd-per</i>    | (Optional) |

|                              |            |
|------------------------------|------------|
| <i>pkt-loss-sd-min</i>       | (Optional) |
| <i>pkt-loss-sd-max</i>       | (Optional) |
| <i>pkt-loss-sd-inter-min</i> | (Optional) |
| <i>pkt-loss-sd-inter-max</i> | (Optional) |
| <i>pkt-loss-ds</i>           | (Optional) |
| <i>pkt-loss-ds-per</i>       | (Optional) |
| <i>pkt-loss-ds-min</i>       | (Optional) |
| <i>pkt-loss-ds-max</i>       | (Optional) |
| <i>pkt-loss-ds-inter-min</i> | (Optional) |
| <i>pkt-loss-ds-inter-max</i> | (Optional) |
| <i>pkt-oos</i>               | (Optional) |
| <i>pkt-oos-sd</i>            | (Optional) |
| <i>pkt-oos-ds</i>            | (Optional) |
| <i>pkt-oos-both</i>          | (Optional) |
| <i>pkt-mia</i>               | (Optional) |
| <i>pkt-late</i>              | (Optional) |
| <i>pkt-skipped</i>           | (Optional) |
| <i>voice-icpif</i>           | (Optional) |
| <i>voice-mos</i>             | (Optional) |
| <i>dnobs</i>                 | (Optional) |
| <i>dmam</i>                  | (Optional) |
| <i>dtoo</i>                  | (Optional) |
| <i>dmin</i>                  | (Optional) |
| <i>dmax</i>                  | (Optional) |
| <i>pnobs</i>                 | (Optional) |
| <i>pmam</i>                  | (Optional) |
| <i>ptoo</i>                  | (Optional) |
| <i>pmin</i>                  | (Optional) |
| <i>pmax</i>                  | (Optional) |

|                        |                                   |
|------------------------|-----------------------------------|
| <i>nnobs</i>           | (Optional)                        |
| <i>nmam</i>            | (Optional)                        |
| <i>ntoo</i>            | (Optional)                        |
| <i>nmin</i>            | (Optional)                        |
| <i>nmax</i>            | (Optional)                        |
| <i>outstring1</i>      | (Optional)                        |
| <i>outstring2</i>      | (Optional)                        |
| <i>nos</i>             | (Optional)                        |
| <i>nof</i>             | (Optional)                        |
| <i>noot</i>            | (Optional)                        |
| <i>nofo1</i>           | (Optional)                        |
| <i>nofo2</i>           | (Optional)                        |
| TABLE_br               | (Optional) Bin range related info |
| <i>br</i>              | (Optional)                        |
| <i>avg-lat</i>         | (Optional)                        |
| <i>potc</i>            | (Optional)                        |
| <i>noc-by-lat</i>      | (Optional)                        |
| <i>sorthigh-by-low</i> | (Optional)                        |
| <i>operot</i>          | (Optional)                        |
| <i>life-left</i>       | (Optional)                        |
| <i>oper-state</i>      | (Optional)                        |
| <i>reset-time</i>      | (Optional)                        |
| <i>nob</i>             | (Optional)                        |
| <i>bbh</i>             | (Optional)                        |
| <i>bbv</i>             | (Optional)                        |

**Command Mode**

- /exec

## show ip sla twamp connection detail

```
show ip sla twamp connection detail [ __readonly__ [ { TABLE_twamp-connection-detail <Connection-Id>
<Client-Addr> <Client-Port> <Client-VRF> <Mode> <Connection-state> <Control-state>
<Number-Of-Test-requests> } ] ]
```

### Syntax Description

|                                      |                                    |
|--------------------------------------|------------------------------------|
| show                                 |                                    |
| ip                                   |                                    |
| sla                                  |                                    |
| twamp                                |                                    |
| connection                           |                                    |
| detail                               |                                    |
| <i>__readonly__</i>                  | (Optional)                         |
| <i>TABLE_twamp-connection-detail</i> | (Optional) connection related info |
| <i>Connection-Id</i>                 | (Optional)                         |
| <i>Client-Addr</i>                   | (Optional)                         |
| <i>Client-Port</i>                   | (Optional)                         |
| <i>Client-VRF</i>                    | (Optional)                         |
| <i>Mode</i>                          | (Optional)                         |
| <i>Connection-state</i>              | (Optional)                         |
| <i>Control-state</i>                 | (Optional)                         |
| <i>Number-Of-Test-requests</i>       | (Optional)                         |

### Command Mode

- /exec



# show ip sla twamp connection requests

```
show ip sla twamp connection requests [ __readonly__ [ { TABLE_twamp-connection-request <Connection-Id>
<Client-Addr> <Client-Port> <Client-VRF> } ] [ <Total-Connections> ] ]
```

## Syntax Description

|                                       |   |
|---------------------------------------|---|
| show                                  |   |
| ip                                    |   |
| sla                                   |   |
| twamp                                 |   |
| connection                            |   |
| requests                              |   |
| <i>__readonly__</i>                   | (Optional)                                  |
| <i>TABLE_twamp-connection-request</i> | (Optional) connection requests related info |
| <i>Connection-Id</i>                  | (Optional)                                  |
| <i>Client-Addr</i>                    | (Optional)                                  |
| <i>Client-Port</i>                    | (Optional)                                  |
| <i>Client-VRF</i>                     | (Optional)                                  |
| <i>Total-Connections</i>              | (Optional)                                  |

## Command Mode

- /exec

## show ip sla twamp session

```
show ip sla twamp session [ __readonly__ <twamp-resp-status> [ { TABLE_twamp-session [ <recv-addr> ]
[ <recv-port> ] [ <send-addr> ] [ <send-port> ] [ <send-vrf> ] [ <sess-id> ] [ <conn-id> ] } ] ]
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     |  |
| ip                       |  |
| sla                      | Service Level Agreement (SLA)          |
| twamp                    | IP SLAs Twamp Information              |
| session                  | Display TWAMP Sessions                 |
| <i>__readonly__</i>      | (Optional)                             |
| <i>twamp-resp-status</i> | (Optional)                             |
| TABLE_twamp-session      | (Optional) session related information |
| <i>recv-addr</i>         | (Optional)                             |
| <i>recv-port</i>         | (Optional)                             |
| <i>send-addr</i>         | (Optional)                             |
| <i>send-port</i>         | (Optional)                             |
| <i>send-vrf</i>          | (Optional)                             |
| <i>sess-id</i>           | (Optional)                             |
| <i>conn-id</i>           | (Optional)                             |

### Command Mode

- /exec

# show ip sla twamp standards

```
show ip sla twamp standards [ __readonly__ [ { TABLE_twamp-standards <twamp-standard-feature>
<twamp-standard-org> <twamp-standard> } ] ]
```

## Syntax Description

|                               |   |
|-------------------------------|---|
| show                          |   |
| ip                            |   |
| sla                           |   |
| twamp                         |   |
| standards                     |   |
| <i>__readonly__</i>           | (Optional)  |
| TABLE_twamp-standards         | (Optional) twamp standards for each supported feature |
| <i>twamp-standard-feature</i> | (Optional)  |
| <i>twamp-standard-org</i>     | (Optional)  |
| <i>twamp-standard</i>         | (Optional)  |

## Command Mode

- /exec

# show ip ssh source-interface

```
show ip ssh source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipsshvrf
<vrfname> <ifname> } ] ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information              |
| ip                    | Display IP information                       |
| ssh                   | Display SSH client information               |
| source-interface      | Display source interface information         |
| vrf                   | (Optional) Display per-VRF information       |
| <i>vrf-name</i>       | (Optional) VRF name                          |
| <i>vrf-known-name</i> | (Optional) Known VRF name                    |
| <i>__readonly__</i>   | (Optional)                                   |
| TABLE_ipsshvrf        | (Optional) source interface of ssh given vrf |
| <i>vrfname</i>        | (Optional) vrfname                           |
| <i>ifname</i>         | (Optional) ifname                            |

## Command Mode

- /exec

# show ip ssh source-interface vrf all

```
show ip ssh source-interface vrf all [ __readonly__ [ { TABLE_ipssh <vrfname> <ifname> } ] ]
```

## Syntax Description

|                  |                                      |
|------------------|--------------------------------------|
| show             | Show running system information      |
| ip               | Display IP information               |
| ssh              | Display SSH client information       |
| source-interface | Display source interface information |
| vrf              | Display per-VRF information          |
| all              | Display entries for all vrfs         |
| __readonly__     | (Optional)                           |
| TABLE_ipssh      | (Optional) source interface of ssh   |
| <i>vrfname</i>   | (Optional) vrfname                   |
| <i>ifname</i>    | (Optional) ifname                    |

## Command Mode

- /exec

## show ip static-route

```
show ip static-route [ multicast ] [ internal ] [ track-table ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ [ <count> <unres-count> ] [ TABLE_vrf_all { <cntxt_name> <cntxt_id> [ TABLE_each_vrf
{ <prefix_addr_msk> <nhop_addr_msk> <nhop_vrf_info> <nhop_intr_info> <urib_stat> [ <seg_id> ] [
<tunnel_id> <urib_encap_type> ] [ <nhop_urib_stat> ] [ <track_obj_num> <track_obj_state> ] } ] ] [
TABLE_multicast <multicast> ] [ TABLE_track-table ] [ TABLE_route <prefix> <masklen> <nhop>
<nhop-masklen> <intf> <real-nhop> <iod> <pref> <tag> <unres> ] ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information                                       |
| ip                     | Display IP information  |
| static-route           | Display configured static routes                                      |
| multicast              | (Optional) Display only multicast routes                              |
| internal               | (Optional) Display internal data structure info                       |
| track-table            | (Optional) Display track object details associated with static routes |
| vrf                    | (Optional) Display per-VRF information                                |
| all                    | (Optional) Display all VRFs   |
| <i>vrf-name</i>        | (Optional) VRF name   |
| <i>vrf-known-name</i>  | (Optional) Known VRF name   |
| <i>__readonly__</i>    | (Optional)  |
| TABLE_vrf_all          | (Optional)  |
| <i>cntxt_name</i>      | (Optional)  |
| <i>cntxt_id</i>        | (Optional)  |
| TABLE_each_vrf         | (Optional)  |
| <i>prefix_addr_msk</i> | (Optional)  |
| <i>nhop_addr_msk</i>   | (Optional)  |
| <i>nhop_vrf_info</i>   | (Optional)  |
| <i>nhop_intr_info</i>  | (Optional)  |
| <i>urib_stat</i>       | (Optional)  |
| <i>seg_id</i>          | (Optional)  |
| <i>tunnel_id</i>       | (Optional)  |

|                        |            |
|------------------------|------------|
| <i>urib_encap_type</i> | (Optional) |
| <i>nhop_urib_stat</i>  | (Optional) |
| <i>track_obj_num</i>   | (Optional) |
| <i>track_obj_state</i> | (Optional) |
| TABLE_multicast        | (Optional) |
| <i>multicast</i>       | (Optional) |
| TABLE_track-table      | (Optional) |
| TABLE_route            | (Optional) |
| <i>prefix</i>          | (Optional) |
| <i>masklen</i>         | (Optional) |
| <i>nhop</i>            | (Optional) |
| <i>nhop-masklen</i>    | (Optional) |
| <i>intf</i>            | (Optional) |
| <i>real-nhop</i>       | (Optional) |
| <i>iod</i>             | (Optional) |
| <i>pref</i>            | (Optional) |
| <i>tag</i>             | (Optional) |
| <i>unres</i>           | (Optional) |
| <i>count</i>           | (Optional) |
| <i>unres-count</i>     | (Optional) |

### Command Mode

- /exec

# show ip tcp mss

```
show ip tcp mss [ __readonly__ { <tcp-mss-value> } ]
```

## Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information                   |
| ip                   | Configure IP features                             |
| tcp                  | Global TCP parameters                             |
| mss                  | Maximum segment size for TCP connections in bytes |
| __readonly__         | (Optional)  |
| <i>tcp-mss-value</i> | (Optional) TCP Maximum Segment Size Value         |

## Command Mode

- /exec



# show ip telnet source-interface

```
show ip telnet source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ {
TABLE_iptelnetvrf <vrfname> <ifname> } ] ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                 |
| ip                    | Display IP information                          |
| telnet                | Display telnet information                      |
| source-interface      | Display source interface information            |
| vrf                   | (Optional) Display per-VRF information          |
| <i>vrf-name</i>       | (Optional) VRF name                             |
| <i>vrf-known-name</i> | (Optional) Known VRF name                       |
| <i>__readonly__</i>   | (Optional)                                      |
| TABLE_iptelnetvrf     | (Optional) source interface of telnet given vrf |
| <i>vrfname</i>        | (Optional) vrfname                              |
| <i>ifname</i>         | (Optional) ifname                               |

## Command Mode

- /exec

# show ip telnet source-interface vrf all

```
show ip telnet source-interface vrf all [ __readonly__ [ { TABLE_ip telnet <vrfname> <ifname> } ] ]
```

## Syntax Description

|                  |                                       |
|------------------|---------------------------------------|
| show             | Show running system information       |
| ip               | Display IP information                |
| telnet           | Display telnet information            |
| source-interface | Display source interface information  |
| vrf              | Display per-VRF information           |
| all              | Display entries for all vrfs          |
| __readonly__     | (Optional)                            |
| TABLE_ip telnet  | (Optional) source interface of telnet |
| <i>vrfname</i>   | (Optional) vrfname                    |
| <i>ifname</i>    | (Optional) ifname                     |

## Command Mode

- /exec

# show ip tftp source-interface

```
show ip tftp source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_ipftpvrf
<vrfname> <ifname> } ] ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information               |
| ip                    | Display IP information                        |
| tftp                  | Display TFTP client information               |
| source-interface      | Display source interface information          |
| vrf                   | (Optional) Display per-VRF information        |
| <i>vrf-name</i>       | (Optional) VRF name                           |
| <i>vrf-known-name</i> | (Optional) Known VRF name                     |
| <i>__readonly__</i>   | (Optional)                                    |
| TABLE_ipftpvrf        | (Optional) source interface of tftp given vrf |
| <i>vrfname</i>        | (Optional) vrfname                            |
| <i>ifname</i>         | (Optional) ifname                             |

## Command Mode

- /exec

## show ip tftp source-interface vrf all

```
show ip tftp source-interface vrf all [ __readonly__ [ { TABLE_iptftp <vrfname> <ifname> } ] ]
```

### Syntax Description

|                  |                                      |
|------------------|--------------------------------------|
| show             | Show running system information      |
| ip               | Display IP information               |
| tftp             | Display TFTP client information      |
| source-interface | Display source interface information |
| vrf              | Display per-VRF information          |
| all              | Display entries for all vrfs         |
| __readonly__     | (Optional)                           |
| TABLE_iptftp     | (Optional) source interface of tftp  |
| <i>vrfname</i>   | (Optional) vrfname                   |
| <i>ifname</i>    | (Optional) ifname                    |

### Command Mode

- /exec

# show ip traceroute source-interface

```
show ip traceroute source-interface [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ {
TABLE_iptraceroutevrf <vrfname> <ifname> } ] ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information           |
| ip                    | Display IP information                    |
| traceroute            | Display traceroute client information     |
| source-interface      | Display source interface information      |
| vrf                   | (Optional) Display per-VRF information    |
| <i>vrf-name</i>       | (Optional) VRF name                       |
| <i>vrf-known-name</i> | (Optional) Known VRF name                 |
| <i>__readonly__</i>   | (Optional)                                |
| TABLE_iptraceroutevrf | (Optional) source interface of traceroute |
| <i>vrfname</i>        | (Optional) vrfname                        |
| <i>ifname</i>         | (Optional) ifname                         |

## Command Mode

- /exec

# show ip traceroute source-interface vrf all

```
show ip traceroute source-interface vrf all [ __readonly__ [ { TABLE_iptraceroute <vrfname> <ifname> } ] ]
```

## Syntax Description

|                    |   |
|--------------------|---|
| show               | Show running system information           |
| ip                 | Display IP information                    |
| traceroute         | Display traceroute client information     |
| source-interface   | Display source interface information      |
| vrf                | Display per-VRF information               |
| all                | Display entries for all vrfs              |
| __readonly__       | (Optional)                                |
| TABLE_iptraceroute | (Optional) source interface of traceroute |
| <i>vrfname</i>     | (Optional) vrfname                        |
| <i>ifname</i>      | (Optional) ifname                         |

## Command Mode

- /exec

## show ip traffic

```

show ip traffic [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__ [ { TABLE_vrf [ <vrf-name-out>
] } ] [ { TABLE_ip_soft_processed_traffic [ { TABLE_trans_and_reception [ <rcvd> ] [ <sent> ] [ <consumed>
] [ <fwd-ucast> ] [ <fwd-mcast> ] [ <fwd-label> ] [ <ingress-mcecfwd> ] } ] [ { TABLE_opts [ <opts-end>
] [ <opts-nop> ] [ <opts-bsec> ] [ <opts-loosesrc-route> ] [ <opts-timestamp> ] [ <opts-esec> ] [
<opts-record-route> ] [ <opts-stid> ] [ <opts-strsrc-route> ] [ <opts-alert> ] [ <opts-cipso> ] [ <opts-ump> ]
[ <opts-other> } ] ] [ { TABLE_errors [ <bad-csum> ] [ <too-small> ] [ <bad-ver> ] [ <bad-hlen> ] [ <bad-len>
] [ <bad-dest> ] [ <bad-ttl> ] [ <cant-fwd> ] [ <out-drop> ] [ <bad-encap> ] [ <no-route> ] [ <no-proto> ] [
<bad-options> ] [ <vinci> ] [ <snoop> ] [ <svi> ] [ <restart-recovery> ] [ <mbuf-fail> ] [ <bad-context> ] [
<rpf-drops> ] [ <bad-gw-mac> ] [ <ing-ips-option-fail> ] [ <nat-in-drop> ] [ <nat-out-drop> ] [
<ing-option-proc-fail> ] [ <ing-mfwd-fail> ] [ <ing-lisp-drop> ] [ <ing-lisp-decap-drop> ] [
<ing-lisp-encap-drop> ] [ <ing-lisp-encap> ] [ <ing-mfwd-copy-drop> ] [ <ing-ra-reass-drop> ] [
<ing-icmp-redirect> ] [ <ing-drop-ifmgr-init> ] [ <ing-drop-invlld-filter> ] [ <ing-drop-invlld-l2-msg> ] [
<ingress> ] [ <egrees> ] [ <directed_bdcst> ] } ] [ { TABLE_fragment [ <frag> ] [ <fragmented> ] [ <out-frag>
] [ <frag-drop> ] [ <cant-frag> ] [ <reams> ] [ <frag-to> ] } ] ] [ { TABLE_icmp_software_proc_traffic [ {
TABLE_transmission [ <tx-redir> ] [ <tx-unreach> ] [ <tx-echo-req> ] [ <tx-echo-reply> ] [ <tx-mask-req>
] [ <tx-mask-rep> ] [ <tx-info-req> ] [ <tx-info-reply> ] [ <tx-param-prob> ] [ <tx-source-quench> ] [
<tx-tstamp-req> ] [ <tx-tstamp-reply> ] [ <tx-time-exceeded> ] [ <tx-router-solicit> ] [ <tx-router-advert> ]
[ <out-drop-badlen> ] [ <encap-fail> ] [ <xmit-fail> ] [ <icmp-originate> ] [ <redirect-originate-req> ] [
<originate-deney> ] [ <short-ip> ] [ <old-icmp> ] [ <error-drop> ] } ] [ { TABLE_reception [ <rx-redir> ] [
<rx-unreach> ] [ <rx-echo-req> ] [ <rx-echo-reply> ] [ <rx-mask-req> ] [ <rx-mask-rep> ] [ <rx-info-req> ]
[ <rx-info-reply> ] [ <rx-param-prob> ] [ <rx-source-quench> ] [ <rx-tstamp-req> ] [ <rx-tstamp-reply> ] [
<rx-time-exceeded> ] [ <rx-router-solicit> ] [ <rx-router-advert> ] [ <rx-format-errors> ] [ <rx-csum-errors>
] [ <lisp-processed> ] [ <lisp-noclient> ] [ <lisp-consumed> ] [ <icmp-replies> ] [ <icmp-reply-drop> ] [
<icmp-inactive-addr> ] } ] ] [ { TABLE_stat_last_never [ <stat-last-never> ] } ] ] [ {
TABLE_rfc4293_ip_soft_proc_traffic [ { TABLE_rfc_reception [ <inrcv> ] [ <inocntet> ] [ <inhdrerr> ] [
<innoroutes> ] [ <inadrerr> ] [ <innoproto> ] [ <intruncated> ] [ <inforw> ] [ <reamsreqds> ] [ <reamsoks>
] [ <reamsfails> ] [ <indiscards> ] [ <indelivers> ] [ <inmcastpkts> ] [ <inmcastbytes> ] [ <inbastpkts> ] } ]
[ { TABLE_rfc_transmission [ <out-req> ] [ <out-no-route> ] [ <out-forwdgrams> ] [ <out-discards> ] [
<out-frag-req> ] [ <out-frag-oks> ] [ <out-frag-fails> ] [ <out-frag-create> ] [ <out-transmits> ] [ <byte-sent>
] [ <out-mcast-pkts> ] [ <out-mcast-bytes> ] [ <out-bcast-pkts> ] [ <out-bcast-bytes> ] } ] } ] ] ] ] ] ]

```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                  |
| ip                        | Display IP information                           |
| traffic                   | Display IP software processed traffic statistics |
| vrf                       | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED        |
| <i>vrf-name</i>           | (Optional) VRF name                              |
| <i>vrf-known-name</i>     | (Optional) Known VRF name                        |
| <code>__readonly__</code> | (Optional)                                       |
| TABLE_vrf                 | (Optional)                                       |
| <i>vrf-name-out</i>       | (Optional)                                       |

|                                 |            |
|---------------------------------|------------|
| TABLE_ip_soft_processed_traffic | (Optional) |
| TABLE_trans_and_reception       | (Optional) |
| <i>rcvd</i>                     | (Optional) |
| <i>sent</i>                     | (Optional) |
| <i>consumed</i>                 | (Optional) |
| <i>fwd-ucast</i>                | (Optional) |
| <i>fwd-mcast</i>                | (Optional) |
| <i>fwd-label</i>                | (Optional) |
| <i>ingress-mcecfwd</i>          | (Optional) |
| TABLE_opts                      | (Optional) |
| <i>opts-end</i>                 | (Optional) |
| <i>opts-nop</i>                 | (Optional) |
| <i>opts-bsec</i>                | (Optional) |
| <i>opts-loose-src-route</i>     | (Optional) |
| <i>opts-timestamp</i>           | (Optional) |
| <i>opts-esec</i>                | (Optional) |
| <i>opts-record-route</i>        | (Optional) |
| <i>opts-ump</i>                 | (Optional) |
| <i>opts-stid</i>                | (Optional) |
| <i>opts-strsrc-route</i>        | (Optional) |
| <i>opts-alert</i>               | (Optional) |
| <i>opts-cipso</i>               | (Optional) |
| <i>opts-other</i>               | (Optional) |
| TABLE_errors                    | (Optional) |
| <i>bad-csum</i>                 | (Optional) |
| <i>too-small</i>                | (Optional) |
| <i>bad-ver</i>                  | (Optional) |
| <i>bad-hlen</i>                 | (Optional) |
| <i>bad-len</i>                  | (Optional) |



|                             |            |
|-----------------------------|------------|
| <i>bad-dest</i>             | (Optional) |
| <i>bad-ttl</i>              | (Optional) |
| <i>cant-fwd</i>             | (Optional) |
| <i>out-drop</i>             | (Optional) |
| <i>bad-encap</i>            | (Optional) |
| <i>no-route</i>             | (Optional) |
| <i>no-proto</i>             | (Optional) |
| <i>bad-options</i>          | (Optional) |
| <i>vinci</i>                | (Optional) |
| <i>snoop</i>                | (Optional) |
| <i>svi</i>                  | (Optional) |
| <i>restart-recovery</i>     | (Optional) |
| <i>mbuf-fail</i>            | (Optional) |
| <i>bad-context</i>          | (Optional) |
| <i>rpf-drops</i>            | (Optional) |
| <i>bad-gw-mac</i>           | (Optional) |
| <i>ing-ips-option-fail</i>  | (Optional) |
| <i>nat-in-drop</i>          | (Optional) |
| <i>nat-out-drop</i>         | (Optional) |
| <i>ing-option-proc-fail</i> | (Optional) |
| <i>ing-mfrwd-fail</i>       | (Optional) |
| <i>ing-lisp-drop</i>        | (Optional) |
| <i>ing-lisp-decap-drop</i>  | (Optional) |
| <i>ing-lisp-encap-drop</i>  | (Optional) |
| <i>ing-lisp-encap</i>       | (Optional) |
| <i>ing-mfwd-copy-drop</i>   | (Optional) |
| <i>ing-ra-reass-drop</i>    | (Optional) |
| <i>ing-icmp-redirect</i>    | (Optional) |
| <i>ing-drop-ifmgr-init</i>  | (Optional) |

|                                  |            |
|----------------------------------|------------|
| <i>ing-drop-invld-filter</i>     | (Optional) |
| <i>ing-drop-invld-l2-msg</i>     | (Optional) |
| <i>ingress</i>                   | (Optional) |
| <i>egrees</i>                    | (Optional) |
| <i>directed_bdcast</i>           | (Optional) |
| TABLE_fragment                   | (Optional) |
| <i>frag</i>                      | (Optional) |
| <i>fragmented</i>                | (Optional) |
| <i>out-frag</i>                  | (Optional) |
| <i>frag-drop</i>                 | (Optional) |
| <i>cant-frag</i>                 | (Optional) |
| <i>reasm</i>                     | (Optional) |
| <i>frag-to</i>                   | (Optional) |
| TABLE_icmp_software_proc_traffic | (Optional) |
| TABLE_transmission               | (Optional) |
| <i>tx-redirect</i>               | (Optional) |
| <i>tx-unreach</i>                | (Optional) |
| <i>tx-echo-req</i>               | (Optional) |
| <i>tx-echo-reply</i>             | (Optional) |
| <i>tx-mask-req</i>               | (Optional) |
| <i>tx-mask-reply</i>             | (Optional) |
| <i>tx-info-req</i>               | (Optional) |
| <i>tx-info-reply</i>             | (Optional) |
| <i>tx-param-prob</i>             | (Optional) |
| <i>tx-source-quench</i>          | (Optional) |
| <i>tx-tstamp-req</i>             | (Optional) |
| <i>tx-tstamp-reply</i>           | (Optional) |
| <i>tx-time-exceeded</i>          | (Optional) |
| <i>tx-router-solicit</i>         | (Optional) |

|                               |            |
|-------------------------------|------------|
| <i>tx-router-advert</i>       | (Optional) |
| <i>out-drop-badlen</i>        | (Optional) |
| <i>encap-fail</i>             | (Optional) |
| <i>xmit-fail</i>              | (Optional) |
| <i>icmp-originate</i>         | (Optional) |
| <i>redirect-originate-req</i> | (Optional) |
| <i>originate-deny</i>         | (Optional) |
| <i>short-ip</i>               | (Optional) |
| <i>old-icmp</i>               | (Optional) |
| <i>error-drop</i>             | (Optional) |
| TABLE_reception               | (Optional) |
| <i>rx-redir</i>               | (Optional) |
| <i>rx-unreach</i>             | (Optional) |
| <i>rx-echo-req</i>            | (Optional) |
| <i>rx-echo-reply</i>          | (Optional) |
| <i>rx-mask-req</i>            | (Optional) |
| <i>rx-mask-rep</i>            | (Optional) |
| <i>rx-info-req</i>            | (Optional) |
| <i>rx-info-reply</i>          | (Optional) |
| <i>rx-param-prob</i>          | (Optional) |
| <i>rx-source-quench</i>       | (Optional) |
| <i>rx-tstamp-req</i>          | (Optional) |
| <i>rx-tstamp-reply</i>        | (Optional) |
| <i>rx-time-exceeded</i>       | (Optional) |
| <i>rx-router-solicit</i>      | (Optional) |
| <i>rx-router-advert</i>       | (Optional) |
| <i>rx-format-errors</i>       | (Optional) |
| <i>rx-csum-errors</i>         | (Optional) |
| <i>lisp-processed</i>         | (Optional) |

|                                    |            |
|------------------------------------|------------|
| <i>lisp-noclient</i>               | (Optional) |
| <i>lisp-consumed</i>               | (Optional) |
| <i>icmp-replies</i>                | (Optional) |
| <i>icmp-reply-drop</i>             | (Optional) |
| <i>icmp-inactive-addr</i>          | (Optional) |
| TABLE_stat_last_never              | (Optional) |
| <i>stat-last-never</i>             | (Optional) |
| TABLE_rfc4293_ip_soft_proc_traffic | (Optional) |
| TABLE_rfc_reception                | (Optional) |
| <i>inrcv</i>                       | (Optional) |
| <i>inoctet</i>                     | (Optional) |
| <i>inhdrrr</i>                     | (Optional) |
| <i>innoroutes</i>                  | (Optional) |
| <i>inaddrerr</i>                   | (Optional) |
| <i>innoproto</i>                   | (Optional) |
| <i>intruncated</i>                 | (Optional) |
| <i>inforw</i>                      | (Optional) |
| <i>reasmreqds</i>                  | (Optional) |
| <i>reasmoks</i>                    | (Optional) |
| <i>reasmfails</i>                  | (Optional) |
| <i>indiscards</i>                  | (Optional) |
| <i>indelivers</i>                  | (Optional) |
| <i>inmcastpkts</i>                 | (Optional) |
| <i>inmcastbytes</i>                | (Optional) |
| <i>inbaspkts</i>                   | (Optional) |
| TABLE_rfc_transmission             | (Optional) |
| <i>out-req</i>                     | (Optional) |
| <i>out-no-route</i>                | (Optional) |
| <i>out-forwdgrams</i>              | (Optional) |

|                        |            |
|------------------------|------------|
| <i>out-discards</i>    | (Optional) |
| <i>out-frag-req</i>    | (Optional) |
| <i>out-frag-oks</i>    | (Optional) |
| <i>out-frag-fails</i>  | (Optional) |
| <i>out-frag-create</i> | (Optional) |
| <i>out-transmits</i>   | (Optional) |
| <i>byte-sent</i>       | (Optional) |
| <i>out-mcast-pkts</i>  | (Optional) |
| <i>out-mcast-bytes</i> | (Optional) |
| <i>out-bcast-pkts</i>  | (Optional) |
| <i>out-bcast-bytes</i> | (Optional) |

**Command Mode**

- /exec

## show ip udp relay

```
show ip udp relay [ __readonly__ <udp_relay_service_enable> <udp_relay_hdr> [ { TABLE_default_ports
<port_name> <udp_relay_port_enable> } ] <udp_ports_hdr> [ TABLE_ports <udp_port_num> ]
<udp_intf_hdr> [ TABLE_intf <udp_intf_idx> <udp_sub_bcast> <udp_objgrp> ] ]
```

### Syntax Description

|                                 |                                    |
|---------------------------------|------------------------------------|
| show                            | Show running system information    |
| ip                              | Show the IP features of the system |
| udp                             | Show items in UDP relay            |
| relay                           | UDP relay                          |
| <i>__readonly__</i>             | (Optional) Read only               |
| <i>udp_relay_service_enable</i> | (Optional)                         |
| <i>udp_relay_hdr</i>            | (Optional)                         |
| TABLE_default_ports             | (Optional)                         |
| <i>port_name</i>                | (Optional) UDP Port Name           |
| <i>udp_relay_port_enable</i>    | (Optional)                         |
| <i>udp_ports_hdr</i>            | (Optional)                         |
| TABLE_ports                     | (Optional)                         |
| <i>udp_port_num</i>             | (Optional)                         |
| <i>udp_intf_hdr</i>             | (Optional)                         |
| TABLE_intf                      | (Optional)                         |
| <i>udp_intf_idx</i>             | (Optional) UDP relay interfaces    |
| <i>udp_sub_bcast</i>            | (Optional)                         |
| <i>udp_objgrp</i>               | (Optional) Object-group            |

### Command Mode

- /exec

# show ip udp relay interface

```
show ip udp relay interface [ <intf_range> ] [ __readonly__ <udp_intf_hdr> [ TABLE_intf <udp_intf_idx>
<udp_sub_bcast> <udp_objgrp> ] ]
```

## Syntax Description

|                      |                                    |
|----------------------|------------------------------------|
| show                 | Show running system information    |
| ip                   | Show the IP features of the system |
| udp                  | Show items in UDP relay            |
| relay                | UDP relay                          |
| interface            | Interface ID                       |
| <i>intf_range</i>    | (Optional) interface               |
| <i>__readonly__</i>  | (Optional) Read only               |
| <i>udp_intf_hdr</i>  | (Optional)                         |
| TABLE_intf           | (Optional)                         |
| <i>udp_intf_idx</i>  | (Optional) UDP relay interfaces    |
| <i>udp_sub_bcast</i> | (Optional)                         |
| <i>udp_objgrp</i>    | (Optional) Object-group            |

## Command Mode

- /exec

## show ip udp relay object-group

```
show ip udp relay object-group [ <obj-grp-name> ] [ __readonly__ [ TABLE_objgrp_list [ <udp_objgrp> ]
[ TABLE_objgrp [ <host_addr> ] [ <net_addr> <net_mask> ] [ <prefix_addr> <prefix_len> ] ] <udp_intf_hdr>
[ TABLE_intf <udp_intf_idx> ] ] ] ]
```

### Syntax Description

|                     |                                    |
|---------------------|------------------------------------|
| show                | Show running system information    |
| ip                  | Show the IP features of the system |
| udp                 | Show items in UDP relay            |
| relay               | UDP relay                          |
| object-group        | Object-group                       |
| <i>obj-grp-name</i> | (Optional) object-group name       |
| <i>__readonly__</i> | (Optional) Read only               |
| TABLE_objgrp_list   | (Optional)                         |
| <i>udp_objgrp</i>   | (Optional) Object-group            |
| TABLE_objgrp        | (Optional)                         |
| <i>host_addr</i>    | (Optional) Host Address            |
| <i>net_addr</i>     | (Optional) Network Address         |
| <i>net_mask</i>     | (Optional) Network Mask            |
| <i>prefix_addr</i>  | (Optional) Network Address         |
| <i>prefix_len</i>   | (Optional) IP Prefix Length        |
| <i>udp_intf_hdr</i> | (Optional)                         |
| TABLE_intf          | (Optional)                         |
| <i>udp_intf_idx</i> | (Optional) UDP relay interfaces    |

### Command Mode

- /exec



# show ip verify source

```
show ip verify source [ interface <intf6> ] [ __readonly__ <verify_ipsg_exclude_vlans> [ <verify_hdr> ] [
<verify_intf_ipsg_val> | <verify_ipsg_enable_intfs> ] [ { TABLE_verify_entry <verify_intf>
<verify_intf_ipsg_val> [ { TABLE_verify_entry_intfs <verify_ipsg_enable_intfs> } ] <verify_filter_mode>
<verify_ip_addr> <verify_mac_addr> <verify_vlan> } ] ]
```

## Syntax Description

|                                  |   |
|----------------------------------|---|
| show                             | Show running system information                       |
| ip                               | Show the IP features of the system                    |
| verify                           | Verify IPSG information                               |
| source                           | IPSG source   |
| interface                        | (Optional) Interface                                  |
| <i>intf6</i>                     | (Optional) interface                                  |
| <i>__readonly__</i>              | (Optional) Read only                                  |
| <i>verify_ipsg_exclude_vlans</i> | (Optional)  |
| <i>verify_hdr</i>                | (Optional) IP source guard operational entries        |
| <i>verify_intf_ipsg_val</i>      | (Optional) IP source guard value (enabled or disable) |
| <i>verify_ipsg_enable_intfs</i>  | (Optional) IP source guard enabled interfaces names   |
| TABLE_verify_entry               | (Optional)  |
| <i>verify_filter_mode</i>        | (Optional)  |
| <i>verify_intf</i>               | (Optional)  |
| TABLE_verify_entry_intfs         | (Optional)  |
| <i>verify_ip_addr</i>            | (Optional) verify ip address                          |
| <i>verify_mac_addr</i>           | (Optional) verify mac address                         |
| <i>verify_vlan</i>               | (Optional) vlan for interface                         |

## Command Mode

- /exec

## show ipv6 amt tunnel

```
show ipv6 amt tunnel [ <address6> <port> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ __readonly__
TABLE_vrf <vrf> <tc6> { TABLE_tunnel <gwa> <gwp> <ut> <ld> <lr> <rc> <exp> { TABLE_route
<source> <group> <rexp> } } ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                     |
| amt                   | AMT show commands                                   |
| ipv6                  | Display IPv6 information                            |
| tunnel                | Display tunnel information                          |
| vrf                   | (Optional) Display information for VRF              |
| <i>vrf-name</i>       | (Optional) VRF name                                 |
| <i>vrf-known-name</i> | (Optional) Known VRF name                           |
| <i>port</i>           | (Optional) UDP port number of gateway               |
| detail                | (Optional) Display routes joined by tunnel endpoint |
| __readonly__          | (Optional)  |
| TABLE_vrf             | (Optional)  |
| <i>vrf</i>            | (Optional)  |
| <i>tc6</i>            | (Optional)  |
| TABLE_tunnel          | (Optional)  |
| <i>gwa</i>            | (Optional)  |
| <i>gwp</i>            | (Optional)  |
| <i>ut</i>             | (Optional)  |
| <i>ld</i>             | (Optional)  |
| <i>lr</i>             | (Optional)  |
| <i>rc</i>             | (Optional)  |
| <i>exp</i>            | (Optional)  |
| TABLE_route           | (Optional)  |
| <i>source</i>         | (Optional)  |
| <i>group</i>          | (Optional)  |

|             |            |
|-------------|------------|
| <i>rexp</i> | (Optional) |
|-------------|------------|

**Command Mode**

- /exec

## show ipv6 bgp

```
show ipv6 { bgp | mbgp } { route-map { <rmap-name> | <rmap-name> } | prefix-list { <prfxlist-name> |
<test_pol_name> } | filter-list { <fltrlist-name> | <test_pol_name> } | community-list { <commlist-name> |
<test_pol_name> } | extcommunity-list { <extcommlist-name> | <test_pol_name> } [ exact-match ] }
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                 |
| ipv6                    | Display BGP information for IPv6 address family |
| bgp                     | Display BGP status and configuration            |
| mbgp                    | Display MBGP status and configuration           |
| route-map               | Display routes matching the route-map           |
| <i>rmap-name</i>        | Route-map name                                  |
| <i>rmap-name</i>        | Known route-map name                            |
| prefix-list             | Display routes matching the prefix-list         |
| <i>prfxlist-name</i>    | Name of prefix-list                             |
| filter-list             | Display routes matching the filter-list         |
| <i>fltrlist-name</i>    | Name of filter-list                             |
| community-list          | Display routes matching the community-list      |
| <i>commlist-name</i>    | Name of community-list                          |
| extcommunity-list       | Display routes matching the extcommunity-list   |
| <i>extcommlist-name</i> | Name of extcommunity-list                       |
| <i>test_pol_name</i>    | An existing test-list policy                    |
| exact-match             | (Optional) Exact match of the communities       |

### Command Mode

- /exec

# show ipv6 bgp

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [
<ipv6-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234
} ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                   |
| ipv6                  | Display BGP information for IPv6 address family   |
| bgp                   | Display BGP status and configuration              |
| mbgp                  | Display MBGP status and configuration             |
| vrf                   | (Optional) Virtual Router Context                 |
| <i>vrf-name</i>       | (Optional) VRF name                               |
| <i>vrf-known-name</i> | (Optional) Known VRF name                         |
| longer-prefixes       | (Optional) Display route and more specific routes |

## Command Mode

- /exec

## show ipv6 bgp community

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
community { <regex-str> | { { <comm-id> | <wellknown-id> } + [ exact-match ] } } [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                 |
| bgp                   | Display BGP status and configuration            |
| mbgp                  | Display MBGP status and configuration           |
| ipv6                  | Display BGP information for IPv6 address family |
| vrf                   | (Optional) Virtual Router Context               |
| <i>vrf-name</i>       | (Optional) VRF name                             |
| <i>vrf-known-name</i> | (Optional) Known VRF name                       |
| community             | Display routes matching the BGP communities     |
| <i>regex-str</i>      | Regular expression to match the communities     |
| <i>comm-id</i>        | BGP community value                             |
| <i>wellknown-id</i>   | BGP wellknown community                         |
| exact-match           | (Optional) Exact match of the communities       |

### Command Mode

- /exec

# show ipv6 bgp dampening

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
dampening { dampened-paths [ regexp <regexp-str> ] | history-paths [ regexp <regexp-str> ] | parameters |
flap-statistics } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                                   |
| bgp                   | Display BGP status and configuration                              |
| mbgp                  | Display MBGP status and configuration                             |
| vrf                   | (Optional) Virtual Router Context                                 |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name   |
| dampening             | Display dampening info  |
| parameters            | Display dampening parameters                                      |
| dampened-paths        | Display all dampened paths  |
| history-paths         | Display all history paths   |
| flap-statistics       | Display flap statistics for routes                                |
| ipv6                  | Display BGP information for IPv6 address family                   |
| regexp                | (Optional) Display routes matching the AS path regular expression |
| <i>regexp-str</i>     | (Optional) Regular expression to match the AS paths               |

## Command Mode

- /exec

## show ipv6 bgp extcommunity

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
extcommunity { <regex-str> | { { 4byteas-generic { transitive <ext-comm-gen-trans> | non-transitive
<ext-comm-gen-nontrans> } } + [ exact-match ] } } [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

### Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information                 |
| ipv6                         | Display BGP information for IPv6 address family |
| bgp                          | Display BGP status and configuration            |
| mbgp                         | Display MBGP status and configuration           |
| vrf                          | (Optional) Virtual Router Context               |
| <i>vrf-name</i>              | (Optional) VRF name                             |
| <i>vrf-known-name</i>        | (Optional) Known VRF name                       |
| extcommunity                 | Display routes matching the BGP extcommunities  |
| 4byteas-generic              | Generic extended community                      |
| transitive                   | Transitive extcommunity                         |
| non-transitive               | Non-Transitive extcommunity                     |
| <i>regex-str</i>             | Regular expression to match the extcommunities  |
| <i>ext-comm-gen-trans</i>    | Extcommunity number aa4:nn format               |
| <i>ext-comm-gen-nontrans</i> | Extcommunity number aa4:nn format               |
| exact-match                  | (Optional) Exact match of the extcommunities    |

### Command Mode

- /exec



## show ipv6 bgp flap-statistics

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
flap-statistics [ <ipv6-prefix> ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                 |
| bgp                   | Display BGP status and configuration            |
| mbgp                  | Display MBGP status and configuration           |
| vrf                   | (Optional) Virtual Router Context               |
| <i>vrf-name</i>       | (Optional) VRF name                             |
| <i>vrf-known-name</i> | (Optional) Known VRF name                       |
| flap-statistics       | Display route flap statistics                   |
| ipv6                  | Display BGP information for IPv6 address family |

### Command Mode

- /exec

## show ipv6 bgp neighbors

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
neighbors { [ { <neighbor-id> | <ipv6-neighbor-id> } [ routes [ advertised | received | dampened ] |
advertised-routes | paths | received-routes | flap-statistics ] ] | <neighbor-prefix-id> | <ipv6-neighbor-prefix-id>
} [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information                                       |
| bgp                       | Display BGP status and configuration                                  |
| mbgp                      | Display MBGP status and configuration                                 |
| neighbors                 | Display all configured BGP neighbors                                  |
| vrf                       | (Optional) Virtual Router Context                                     |
| <i>vrf-name</i>           | (Optional) VRF name   |
| <i>vrf-known-name</i>     | (Optional) Known VRF name   |
| <i>neighbor-id</i>        | (Optional) Display one particular BGP neighbor                        |
| <i>neighbor-prefix-id</i> | Display details for a prefix peering                                  |
| ipv6                      | Display BGP information for IPv6 address family                       |
| routes                    | (Optional) Display all routes advertised/received to/from peer        |
| advertised                | (Optional) Display all routes advertised to this peer                 |
| received                  | (Optional) Display all routes received from this peer                 |
| dampened                  | (Optional) Display all dampened routes received from this peer        |
| advertised-routes         | (Optional) Display all the routes advertised to this peer             |
| received-routes           | (Optional) Display all the routes received from this peer             |
| flap-statistics           | (Optional) Display flap statistics for routes received from this peer |
| paths                     | (Optional) Display AS paths learned from this peer                    |

### Command Mode

- /exec

# show ipv6 bgp nexthop-database

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
nexthop-database [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                 |
| bgp                   | Display BGP status and configuration            |
| mbgp                  | Display MBGP status and configuration           |
| vrf                   | (Optional) Virtual Router Context               |
| <i>vrf-name</i>       | (Optional) VRF name                             |
| <i>vrf-known-name</i> | (Optional) Known VRF name                       |
| nexthop-database      | Display nexthop database                        |
| ipv6                  | Display BGP information for IPv6 address family |

## Command Mode

- /exec

# show ipv6 bgp nexthop

show ipv6 { bgp | mbgp } nexthop <ipv6nexthop>

## Syntax Description

|         |   |
|---------|---|
| show    | Show running system information                 |
| ipv6    | Display BGP information for IPv6 address family |
| bgp     | Display BGP status and configuration            |
| mbgp    | Display MBGP status and configuration           |
| nexthop | Display routes matching the nexthop             |

## Command Mode

- /exec

## show ipv6 bgp received-paths

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
received-paths [ private ] [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                 |
| ipv6                  | Display BGP information for IPv6 address family |
| bgp                   | Display BGP status and configuration            |
| mbgp                  | Display MBGP status and configuration           |
| vrf                   | (Optional) Virtual Router Context               |
| <i>vrf-name</i>       | (Optional) VRF name                             |
| <i>vrf-known-name</i> | (Optional) Known VRF name                       |
| received-paths        | Display paths stored for soft-reconfig          |
| private               | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED       |

### Command Mode

- /exec

## show ipv6 bgp regexp

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] regexp
<regexp-str> [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                        |
| bgp                   | Display BGP status and configuration                   |
| mbgp                  | Display MBGP status and configuration                  |
| vrf                   | (Optional) Virtual Router Context                      |
| <i>vrf-name</i>       | (Optional) VRF name                                    |
| <i>vrf-known-name</i> | (Optional) Known VRF name                              |
| ipv6                  | Display BGP information for IPv6 address family        |
| regexp                | Display routes matching the AS path regular expression |
| <i>regexp-str</i>     | Regular expression to match the AS paths               |

### Command Mode

- /exec

# show ipv6 bgp summary

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]  
summary [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                 |
| bgp                   | Display BGP status and configuration            |
| mbgp                  | Display MBGP status and configuration           |
| vrf                   | (Optional) Virtual Router Context               |
| <i>vrf-name</i>       | (Optional) VRF name                             |
| <i>vrf-known-name</i> | (Optional) Known VRF name                       |
| summary               | Display summarized information of BGP state     |
| ipv6                  | Display BGP information for IPv6 address family |

## Command Mode

- /exec

## show ipv6 dhcp guard policy

```
show ipv6 dhcp guard policy [ <pname> ] [ __readonly__ { TABLE_dhcp_guard_policy <name> <role> [
<target> ] [ <max_pref> ] [ <min_pref> ] [ <match_src_list> ] [ <match_prefix_list> ] } ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information               |
| ipv6                     | Show the IPv6 features of the system          |
| <i>pname</i>             | (Optional) Policy name for dhcp guard feature |
| <i>__readonly__</i>      | (Optional)                                    |
| TABLE_dhcp_guard_policy  | (Optional) IPv6 DHCP guard policy             |
| <i>name</i>              | (Optional) Policy Name                        |
| <i>role</i>              | (Optional) Role                               |
| <i>target</i>            | (Optional) Target                             |
| <i>max_pref</i>          | (Optional) Max preference                     |
| <i>min_pref</i>          | (Optional) Min preference                     |
| <i>match_src_list</i>    | (Optional) Source Address Match Access List   |
| <i>match_prefix_list</i> | (Optional) Prefix List Match Prefix List      |

### Command Mode

- /exec



# show ipv6 local policy

```
show ipv6 local policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_pbr [
<interface> ] [ <rmap> ] [ <status> ] [ <vrf_name> ] } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ipv6                  | Display IPv6 information                    |
| local                 | IPv6 local options                          |
| policy                | Policy routing                              |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| __readonly__          | (Optional)                                  |
| TABLE_pbr             | (Optional)                                  |
| <i>interface</i>      | (Optional)                                  |
| <i>rmap</i>           | (Optional)                                  |
| <i>status</i>         | (Optional)                                  |
| <i>vrf_name</i>       | (Optional)                                  |

## Command Mode

- /exec

## show ipv6 mroute

```
show ipv6 mroute [ [ bitfield ] | rp | { [ <group> ] summary [ software-forwarded ] } | { summary [ count |
software-forwarded ] } | { { <source> <group> } | { <group> [ <source> ] } } [ summary [ software-forwarded
] | bitfield ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_vrf <vrf-name> [
TABLE_addr <mcast-addr> <pending> <bidir> <uptime> [ TABLE_mpib <mpib-name> <stale-route> ]
<if-name><rpf-nbr> <internal> <oif-count><fabric-oif><fabric-loser> [ TABLE_oif <oif-name> <oif-uptime>
[ TABLE_oif_mpib <oif-mpib-name> <stale-oif> ] <rpf> ] [ <oif-list-bitfield> ] ] [ <total-route-count>
<star-g-count> <source-count> <star-g-prefix-count> <group-count> <avg-sources-per-group><rem> [
<reason-for-route-stats-pending> ] ] [ TABLE_group <group-addr> <group-mask-len> <source-count-per-grp>
[ TABLE_source <route-or-source> [ <name> ] <packets> <bytes> <aps> <pps> <bit-rate-in-bps> <oifs> [
<software-pkts> ] ] ] ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                        |
| ipv6                  | Display IPv6 information                               |
| vrf                   | (Optional) Display per-VRF information                 |
| <i>vrf-name</i>       | (Optional) Multicast VRF name                          |
| <i>vrf-known-name</i> | (Optional) Known VRF name                              |
| all                   | (Optional) Display information for all VRFs            |
| mroute                | Display IPv6 multicast routing table                   |
| summary               | (Optional) Display route counts and packet rates       |
| software-forwarded    | (Optional) Display software switched route counts only |
| rp                    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED              |
| count                 | (Optional) Display route counts only                   |
| bitfield              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED              |
| __readonly__          | (Optional)   |
| TABLE_vrf             | (Optional)   |
| <i>vrf-name</i>       | (Optional)   |
| TABLE_addr            | (Optional)   |
| <i>mcast-addr</i>     | (Optional)   |
| <i>bidir</i>          | (Optional)   |
| <i>pending</i>        | (Optional)   |
| <i>uptime</i>         | (Optional)   |

|                                       |            |
|---------------------------------------|------------|
| <i>internal</i>                       | (Optional) |
| TABLE_mpib                            | (Optional) |
| <i>mpib-name</i>                      | (Optional) |
| <i>stale-route</i>                    | (Optional) |
| TABLE_oif                             | (Optional) |
| <i>oif-name</i>                       | (Optional) |
| <i>oif-uptime</i>                     | (Optional) |
| <i>rpf</i>                            | (Optional) |
| <i>oif-list-bitfield</i>              | (Optional) |
| TABLE_oif_mpib                        | (Optional) |
| <i>oif-mpib-name</i>                  | (Optional) |
| <i>stale-oif</i>                      | (Optional) |
| <i>total-route-count</i>              | (Optional) |
| <i>star-g-count</i>                   | (Optional) |
| <i>source-count</i>                   | (Optional) |
| <i>star-g-prefix-count</i>            | (Optional) |
| <i>group-count</i>                    | (Optional) |
| <i>reason-for-route-stats-pending</i> | (Optional) |
| TABLE_group                           | (Optional) |
| <i>group-addr</i>                     | (Optional) |
| <i>group-mask-len</i>                 | (Optional) |
| <i>source-count-per-grp</i>           | (Optional) |
| TABLE_source                          | (Optional) |
| <i>route-or-source</i>                | (Optional) |
| <i>name</i>                           | (Optional) |
| <i>packets</i>                        | (Optional) |
| <i>bytes</i>                          | (Optional) |
| <i>aps</i>                            | (Optional) |
| <i>pps</i>                            | (Optional) |

|                        |            |
|------------------------|------------|
| <i>bit-rate-in-bps</i> | (Optional) |
| <i>oifs</i>            | (Optional) |
| <i>software-pkts</i>   | (Optional) |

**Command Mode**

- /exec

## show ipv6 nd raguard policy

```
show ipv6 nd raguard policy [ <name> ] [ __readonly__ { TABLE_raguard_policy <policy> [ <port_type>
] <device_role> [ <min_hop_limit> ] [ <max_hop_limit> ] [ <mgd_conf_flag> ] [ <other_conf_flag> ] [
<rtr_pref_max> ] [ <ra_prefix_list> ] [ <ipv6_acl> ] [ { TABLE_raguard_targets <target> <target_type>
<target_policy> <feature> <target_range> } ] }
```

### Syntax Description

|                        |   |
|------------------------|---|
| <i>name</i>            | (Optional) Policy name for feature RA guard |
| <i>__readonly__</i>    | (Optional)                                  |
| TABLE_raguard_policy   | (Optional) IPv6 RA guard policy             |
| <i>policy</i>          | (Optional) Policy Name                      |
| <i>port_type</i>       | (Optional) Port type                        |
| <i>device_role</i>     | (Optional) Device role                      |
| <i>min_hop_limit</i>   | (Optional) Minimum hop limit                |
| <i>max_hop_limit</i>   | (Optional) Minimum hop limit                |
| <i>mgd_conf_flag</i>   | (Optional) Check managed config flag        |
| <i>other_conf_flag</i> | (Optional) Check other config flag          |
| <i>rtr_pref_max</i>    | (Optional) Router-preference maximum        |
| <i>ra_prefix_list</i>  | (Optional) Match RA prefix list             |
| <i>ipv6_acl</i>        | (Optional) Match IPv6 access list           |
| TABLE_raguard_targets  | (Optional) RA Guard Targets table           |
| <i>target</i>          | (Optional) Target Name                      |
| <i>target_type</i>     | (Optional) Target Type                      |
| <i>target_policy</i>   | (Optional) Policy Name                      |
| <i>feature</i>         | (Optional) Feature                          |
| <i>target_range</i>    | (Optional) Target Range                     |

### Command Mode

- /exec

# show ipv6 neighbor binding

```
show ipv6 neighbor binding [ { { vlan <vlanid> [ details ] } | { { address { <ipv6-addr> | all } } { interface <intfid> vlan <vlanid> [ details ] } }
```

## Syntax Description

|               |                                      |
|---------------|--------------------------------------|
| <i>intfid</i> | (Optional) [details]                 |
| show          | Show running system information      |
| ipv6          | Show the IPv6 features of the system |
| <i>vlanid</i> | (Optional) Vlan number               |

## Command Mode

- /exec

# show ipv6 neighbor binding mac

show ipv6 neighbor binding mac <macaddr> { interface <intfid> vlan <vlanid> [ details ] |

## Syntax Description

|                |                                      |
|----------------|--------------------------------------|
| <i>intfid</i>  | [details]                            |
| show           | Show running system information      |
| ipv6           | Show the IPv6 features of the system |
| <i>macaddr</i> | 48-bit hardware address              |
| <i>vlanid</i>  | Vlan number                          |

## Command Mode

- /exec

## show ipv6 pim df

```
show ipv6 pim df [ <rp-or-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
<out-context> ] [ { TABLE_rp [ <rp-addr> ] [ <df-ordinal> ] [ <df-bits> ] [ <df-bits-count> ] [ <metric-pref>
] [ <metric> ] [ { TABLE_grange [ <grange-grp> ] [ <grange-masklen> ] } ] [ { TABLE_iod [ <if-name> ]
[ <df-winner> ] [ <df-state> ] [ <winner-metric-pref> ] [ <winner-metric> ] [ <uptime> ] [ <is-rpf> } } } ] ] ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information             |
| ipv6                      | Display IPv6 information                    |
| pim                       | Display PIM6 status and configuration       |
| df                        | Display Bidir Designated Forwarders         |
| vrf                       | (Optional) Display per-VRF information      |
| <i>vrf-name</i>           | (Optional) VRF name                         |
| <i>vrf-known-name</i>     | (Optional) Known VRF name                   |
| all                       | (Optional) Display information for all VRFs |
| __readonly__              | (Optional)                                  |
| <i>out-context</i>        | (Optional)                                  |
| TABLE_rp                  | (Optional)                                  |
| <i>df-ordinal</i>         | (Optional)                                  |
| <i>df-bits</i>            | (Optional)                                  |
| <i>df-bits-count</i>      | (Optional)                                  |
| <i>metric-pref</i>        | (Optional)                                  |
| <i>metric</i>             | (Optional)                                  |
| TABLE_grange              | (Optional)                                  |
| <i>grange-masklen</i>     | (Optional)                                  |
| TABLE_iod                 | (Optional)                                  |
| <i>if-name</i>            | (Optional)                                  |
| <i>df-state</i>           | (Optional)                                  |
| <i>winner-metric-pref</i> | (Optional)                                  |
| <i>winner-metric</i>      | (Optional)                                  |



|               |            |
|---------------|------------|
| <i>uptime</i> | (Optional) |
| <i>is-rpf</i> | (Optional) |

**Command Mode**

- /exec

# show ipv6 pim fabric info

show ipv6 pim fabric info [ *\_\_readonly\_\_* <*switch\_role*> ]

## Syntax Description

|                     |                                       |
|---------------------|---------------------------------------|
| show                | Show running system information       |
| ipv6                | Display IPv6 information              |
| pim                 | Display PIM6 status and configuration |
| fabric              | Fabric functionality                  |
| info                | show the fabric info                  |
| <i>__readonly__</i> | (Optional)                            |
| <i>switch_role</i>  | (Optional)                            |

## Command Mode

- /exec

# show ipv6 pim fabric legacy-vlans

show ipv6 pim fabric legacy-vlans [ *\_\_readonly\_\_* *TABLE\_legacy\_vlan* <*vlan\_id*> ]

## Syntax Description

|                          |                                       |
|--------------------------|---------------------------------------|
| show                     | Show running system information       |
| ipv6                     | Display IPv6 information              |
| pim                      | Display PIM6 status and configuration |
| fabric                   | Fabric functionality                  |
| legacy-vlans             | Show legacy VLANs on this switch      |
| <i>__readonly__</i>      | (Optional)                            |
| <i>TABLE_legacy_vlan</i> | (Optional)                            |
| <i>vlan_id</i>           | (Optional)                            |

## Command Mode

- /exec

## show ipv6 pim group-range

```
show ipv6 pim group-range [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_vrf [ <out-context> ] [ { TABLE_group [ <invalid-grp> ] [ <grp-addr> ] [ <mode> ] [ <rp-addr> ]
[ <sh-tree-only-range> ] } ] ] ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information             |
| ipv6                      | Display IPv6 information                    |
| pim                       | Display PIM6 status and configuration       |
| group-range               | Display the various group ranges            |
| vrf                       | (Optional) Display per-VRF information      |
| <i>vrf-name</i>           | (Optional) VRF name                         |
| <i>vrf-known-name</i>     | (Optional) Known VRF name                   |
| all                       | (Optional) Display information for all VRFs |
| __readonly__              | (Optional)                                  |
| TABLE_vrf                 | (Optional)                                  |
| <i>out-context</i>        | (Optional)                                  |
| TABLE_group               | (Optional)                                  |
| <i>invalid-grp</i>        | (Optional)                                  |
| <i>grp-addr</i>           | (Optional)                                  |
| <i>mode</i>               | (Optional)                                  |
| <i>rp-addr</i>            | (Optional)                                  |
| <i>sh-tree-only-range</i> | (Optional)                                  |

### Command Mode

- /exec

## show ipv6 pim interface

```
show ipv6 pim interface [ <interface> ] [ brief ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ ]
[ <is-pim-enabled> ] [ TABLE_vrf [ <out-context> ] [ TABLE_brief [ <if-name> ] [ <if-addr> ] [ <if-nbr-count> ]
] [ <if-is-border> ] [ <if-dr> ] ] [ TABLE_iod [ <if-name> ] [ <if-status> ] [ <if-addr> ] [ <dr> ] [
<is-iface-in-cib> ] [ <if-addr-summary> ] [ <dr-priority> ] [ <no-dr-priority> ] [ <nbr-cnt> ] [
<hello-interval-sec> ] [ <hello-interval-msec> ] [ <hello-timer> ] [ <holdtime-sec> ] [ <holdtime-msec> ] [
<is-border> ] [ <genid> ] [ <isauth-config> ] [ <nbr-policy-name> ] [ <jp-in-policy-name> ] [
<jp-out-policy-name> ] [ <is-passive> ] [ <last-cleared> ] [ <hello-sent> ] [ <hello-rcvd> ] [ <jp-sent> ] [
<jp-rcvd> ] [ <assert-sent> ] [ <assert-rcvd> ] [ <graft-sent> ] [ <graft-rcvd> ] [ <graft-ack-sent> ] [
<graft-ack-rcvd> ] [ <df-offer-sent> ] [ <df-offer-rcvd> ] [ <df-winner-sent> ] [ <df-winner-rcvd> ] [
<df-backoff-sent> ] [ <df-backoff-rcvd> ] [ <pass-sent> ] [ <pass-rcvd> ] [ <cksum-errors> ] [ <invalid-errors> ]
] [ <invalid-df-errors> ] [ <auth-failed> ] [ <pak-len-errors> ] [ <ver-errors> ] [ <pkts-self> ] [ <pkts-non-nbr> ]
] [ <pkts-on-passive> ] [ <jp-rcvd-on-rpf> ] [ <jp-rcvd-no-rp> ] [ <jp-rcvd-wrong-rp> ] [ <jp-rcvd-for-ssm> ]
] [ <jp-rcvd-for-bidir> ] [ <jp-in-policy-filter> ] [ <jp-out-policy-filter> ] ] ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                          |
| ipv6                  | Display IPv6 information                                 |
| pim                   | Display PIM6 status and configuration                    |
| interface             | Display PIM6 interface related information               |
| <i>interface</i>      | (Optional) Interface name of single interface to display |
| brief                 | (Optional) Display one line status per interface         |
| vrf                   | (Optional) Display per-VRF information                   |
| <i>vrf-name</i>       | (Optional) VRF name                                      |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                |
| all                   | (Optional) Display information for all VRFs              |
| <u>__readonly__</u>   | (Optional)   |
| <i>is-pim-enabled</i> | (Optional)   |
| TABLE_vrf             | (Optional)   |
| <i>out-context</i>    | (Optional)   |
| TABLE_brief           | (Optional)   |
| <i>if-name</i>        | (Optional)   |
| <i>if-addr</i>        | (Optional)   |
| <i>if-dr</i>          | (Optional)   |

|                            |            |
|----------------------------|------------|
| <i>if-nbr-count</i>        | (Optional) |
| <i>if-is-border</i>        | (Optional) |
| TABLE_iod                  | (Optional) |
| <i>if-name</i>             | (Optional) |
| <i>if-status</i>           | (Optional) |
| <i>if-addr</i>             | (Optional) |
| <i>dr</i>                  | (Optional) |
| <i>dr-priority</i>         | (Optional) |
| <i>no-dr-priority</i>      | (Optional) |
| <i>nbr-cnt</i>             | (Optional) |
| <i>is-iface-in-cib</i>     | (Optional) |
| <i>is-border</i>           | (Optional) |
| <i>if-addr-summary</i>     | (Optional) |
| <i>hello-interval-sec</i>  | (Optional) |
| <i>hello-interval-msec</i> | (Optional) |
| <i>hello-timer</i>         | (Optional) |
| <i>holdtime-sec</i>        | (Optional) |
| <i>holdtime-msec</i>       | (Optional) |
| <i>genid</i>               | (Optional) |
| <i>isauth-config</i>       | (Optional) |
| <i>is-passive</i>          | (Optional) |
| <i>nbr-policy-name</i>     | (Optional) |
| <i>jp-in-policy-name</i>   | (Optional) |
| <i>jp-out-policy-name</i>  | (Optional) |
| <i>last-cleared</i>        | (Optional) |
| <i>hello-sent</i>          | (Optional) |
| <i>hello-rcvd</i>          | (Optional) |
| <i>jp-sent</i>             | (Optional) |
| <i>jp-rcvd</i>             | (Optional) |

|                            |            |
|----------------------------|------------|
| <i>assert-sent</i>         | (Optional) |
| <i>assert-rcvd</i>         | (Optional) |
| <i>graft-sent</i>          | (Optional) |
| <i>graft-rcvd</i>          | (Optional) |
| <i>graft-ack-sent</i>      | (Optional) |
| <i>graft-ack-rcvd</i>      | (Optional) |
| <i>df-offer-sent</i>       | (Optional) |
| <i>df-offer-rcvd</i>       | (Optional) |
| <i>df-winner-sent</i>      | (Optional) |
| <i>df-winner-rcvd</i>      | (Optional) |
| <i>df-backoff-sent</i>     | (Optional) |
| <i>df-backoff-rcvd</i>     | (Optional) |
| <i>pass-sent</i>           | (Optional) |
| <i>pass-rcvd</i>           | (Optional) |
| <i>cksum-errors</i>        | (Optional) |
| <i>invalid-errors</i>      | (Optional) |
| <i>invalid-df-errors</i>   | (Optional) |
| <i>auth-failed</i>         | (Optional) |
| <i>pak-len-errors</i>      | (Optional) |
| <i>ver-errors</i>          | (Optional) |
| <i>pkts-self</i>           | (Optional) |
| <i>pkts-non-nbr</i>        | (Optional) |
| <i>pkts-on-passive</i>     | (Optional) |
| <i>jp-rcvd-on-rpf</i>      | (Optional) |
| <i>jp-rcvd-no-rp</i>       | (Optional) |
| <i>jp-rcvd-wrong-rp</i>    | (Optional) |
| <i>jp-rcvd-for-ssm</i>     | (Optional) |
| <i>jp-rcvd-for-bidir</i>   | (Optional) |
| <i>jp-in-policy-filter</i> | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>jp-out-policy-filter</i> | (Optional) |
|-----------------------------|------------|

**Command Mode**

- /exec



# show ipv6 pim neighbor

```
show ipv6 pim neighbor { [ <interface> ] | [ <ipv6addr> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
[ __readonly__ [ TABLE_vrf <out-context> [ TABLE_neighbor <nbr-addr><if-name><uptime><expires>
[ <dr-priority> ] <bidir-capable> <bfd-state><name> [ TABLE_secondary <sec-addr> ] ] ] ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                       |
| ipv6                  | Display IPv6 information                              |
| pim                   | Display PIM6 status and configuration                 |
| neighbor              | Display PIM6 neighbor related information             |
| <i>interface</i>      | (Optional) Display neighbors on single interface name |
| vrf                   | (Optional) Display per-VRF information                |
| <i>vrf-name</i>       | (Optional) VRF name                                   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                             |
| all                   | (Optional) Display information for all VRFs           |
| __readonly__          | (Optional)  |
| TABLE_vrf             | (Optional)  |
| <i>out-context</i>    | (Optional)  |
| TABLE_neighbor        | (Optional)  |
| <i>dr-priority</i>    | (Optional)  |
| <i>bidir-capable</i>  | (Optional)  |
| TABLE_secondary       | (Optional)  |

## Command Mode

- /exec

## show ipv6 pim oif-list

```
show ipv6 pim oif-list <group> [ <source> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_vrf <vrf-name> { TABLE_grp <mcast-addr> <incoming-intf> <rpf-nbr> <timeout-interval>
<oif-list-count> [ { TABLE_oiflist <oif-name> } ] <timeout-list-count> [ { TABLE_timeoutlist
<timeoutoif-name> } ] <immediate-list-count> [ { TABLE_immediatelist <immediateoif-name> } ]
<immediate-timeout-list-count> [ { TABLE_immediatetimetoutlist <immediatetimeoutoif-name> } ]
<sgr-prune-list-count> [ { TABLE_sgrprunelist <sgrprunelistoif-name> } ] }
```

### Syntax Description

|                             |   |
|-----------------------------|---|
| show                        | Show running system information               |
| ipv6                        | Display IPv6 information                      |
| pim                         | Display PIM6 status and configuration         |
| oif-list                    | Display interfaces for oif-list of PIM6 route |
| vrf                         | (Optional) Display per-VRF information        |
| <i>vrf-name</i>             | (Optional) VRF name                           |
| <i>vrf-known-name</i>       | (Optional) Known VRF name                     |
| all                         | (Optional) Display information for all VRFs   |
| __readonly__                | (Optional)                                    |
| TABLE_vrf                   | (Optional)                                    |
| <i>vrf-name</i>             | (Optional)                                    |
| TABLE_grp                   | (Optional)                                    |
| <i>mcast-addr</i>           | (Optional)                                    |
| <i>incoming-intf</i>        | (Optional)                                    |
| <i>timeout-interval</i>     | (Optional)                                    |
| <i>oif-list-count</i>       | (Optional)                                    |
| TABLE_oiflist               | (Optional)                                    |
| <i>oif-name</i>             | (Optional)                                    |
| <i>timeout-list-count</i>   | (Optional)                                    |
| TABLE_timeoutlist           | (Optional)                                    |
| <i>timeoutoif-name</i>      | (Optional)                                    |
| <i>immediate-list-count</i> | (Optional)                                    |

|                                     |            |
|-------------------------------------|------------|
| TABLE_immediatelist                 | (Optional) |
| <i>immediateoif-name</i>            | (Optional) |
| <i>immediate-timeout-list-count</i> | (Optional) |
| TABLE_immediatettimeoutlist         | (Optional) |
| <i>immediatettimeoutoif-name</i>    | (Optional) |
| <i>sgr-prune-list-count</i>         | (Optional) |
| TABLE_sgrprunelist                  | (Optional) |
| <i>sgrprunelisoif-name</i>          | (Optional) |

**Command Mode**

- /exec

## show ipv6 pim policy statistics jp

```
show ipv6 pim policy statistics { jp-policy | neighbor-policy } <interface> [ __readonly__ { TABLE_routemap
<name> <action> <seq_num> [ { TABLE_cmd <command> <match_count> <compare_count> } ] }
<total_accept_count> <total_reject_count> ]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information            |
| ipv6                      | Display IPv6 information                   |
| pim                       | PIM6 global configuration commands         |
| policy                    | Policy related information                 |
| statistics                | Policy statistics                          |
| jp-policy                 | Statistics for jp-policy                   |
| neighbor-policy           | Statistics for neighbor-policy             |
| <i>interface</i>          | Interface to display policy statistics for |
| <i>__readonly__</i>       | (Optional)                                 |
| TABLE_routemap            | (Optional)                                 |
| <i>name</i>               | (Optional)                                 |
| <i>action</i>             | (Optional)                                 |
| <i>seq_num</i>            | (Optional)                                 |
| TABLE_cmd                 | (Optional)                                 |
| <i>command</i>            | (Optional)                                 |
| <i>compare_count</i>      | (Optional)                                 |
| <i>match_count</i>        | (Optional)                                 |
| <i>total_accept_count</i> | (Optional)                                 |
| <i>total_reject_count</i> | (Optional)                                 |

### Command Mode

- /exec

## show ipv6 pim route

```
show ipv6 pim route { [ bitfield ] | <source> <group> | <group> [ <source> ] [ bitfield ] } [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <context-name> <route-count> [ TABLE_one_route
<mcast-addr> [ <rp-addr> <rp-local> ] [ <bidir> ] [ <sgexpire> ] [ <is-fabricowned> ] [ <sgexpire> ] [
<timeleft> ] [ <rp-bit> ] [ <register> ] [ <assert-timeout> ] [ <intf-name> ] [ <rpf-nbr-1> ] [ <rpf-nbr-addr>
] [ <rpf-nbr-2> ] [ <metric-pref> <route-metric> ] [ <oif-count> ] [ <oif-bf-str> ] [ <timeout-count> ] [
<timeout-bf-str> ] [ <immediate-count> ] [ <immediate-bf-str> ] [ <immediate-timeout-count> ] [
<immediate-timeout-bf-str> ] [ <sgr-prune-list-count> ] [ <sgr-prune-list-bf-str> ] [ <timeout-interval>
<jp-holdtime-rndup> ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ipv6                  | Display IPv6 information                    |
| pim                   | Display PIM6 status and configuration       |
| route                 | Display PIM6 specific route information     |
| bitfield              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| __readonly__          | (Optional)                                  |
| TABLE_vrf             | (Optional)                                  |
| <i>context-name</i>   | (Optional)                                  |
| <i>route-count</i>    | (Optional)                                  |
| TABLE_one_route       | (Optional)                                  |
| <i>mcast-addr</i>     | (Optional)                                  |
| <i>rp-addr</i>        | (Optional)                                  |
| <i>rp-local</i>       | (Optional)                                  |
| <i>bidir</i>          | (Optional)                                  |
| <i>sgexpire</i>       | (Optional)                                  |
| <i>is-fabricowned</i> | (Optional)                                  |
| <i>sgexpire</i>       | (Optional)                                  |

|                                 |            |
|---------------------------------|------------|
| <i>timeleft</i>                 | (Optional) |
| <i>rp-bit</i>                   | (Optional) |
| <i>register</i>                 | (Optional) |
| <i>assert-timeout</i>           | (Optional) |
| <i>intf-name</i>                | (Optional) |
| <i>rpf-nbr-1</i>                | (Optional) |
| <i>rpf-nbr-addr</i>             | (Optional) |
| <i>rpf-nbr-2</i>                | (Optional) |
| <i>metric-pref</i>              | (Optional) |
| <i>route-metric</i>             | (Optional) |
| <i>oif-count</i>                | (Optional) |
| <i>oif-bf-str</i>               | (Optional) |
| <i>timeout-count</i>            | (Optional) |
| <i>timeout-bf-str</i>           | (Optional) |
| <i>immediate-count</i>          | (Optional) |
| <i>immediate-bf-str</i>         | (Optional) |
| <i>immediate-timeout-count</i>  | (Optional) |
| <i>immediate-timeout-bf-str</i> | (Optional) |
| <i>sgr-prune-list-count</i>     | (Optional) |
| <i>sgr-prune-list-bf-str</i>    | (Optional) |
| <i>timeout-interval</i>         | (Optional) |
| <i>jp-holdtime-rndup</i>        | (Optional) |

**Command Mode**

- /exec

## show ipv6 pim rp-hash

```
show ipv6 pim rp-hash <group> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ <out-context> ] [ <rp-found> ] [ <is-rp-bsr-learnt> ] [ <out-group> ] [ <hash-length> ] [ <out-bsr> ] [ { TABLE_rp [ <rp-addr> ] [ <hash> ] [ <isbest_hash> ] } ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information             |
| ipv6                    | Display IPv6 information                    |
| pim                     | Display PIM6 status and configuration       |
| rp-hash                 | Display RP hash value for group             |
| vrf                     | (Optional) Display per-VRF information      |
| <i>vrf-name</i>         | (Optional) VRF name                         |
| <i>vrf-known-name</i>   | (Optional) Known VRF name                   |
| all                     | (Optional) Display information for all VRFs |
| <i>__readonly__</i>     | (Optional)                                  |
| <i>out-context</i>      | (Optional)                                  |
| <i>rp-found</i>         | (Optional)                                  |
| <i>is-rp-bsr-learnt</i> | (Optional)                                  |
| <i>hash-length</i>      | (Optional)                                  |
| TABLE_rp                | (Optional)                                  |
| <i>hash</i>             | (Optional)                                  |
| <i>isbest_hash</i>      | (Optional)                                  |

### Command Mode

- /exec





|                                 |            |
|---------------------------------|------------|
| <i>bsr-expires</i>              | (Optional) |
| <i>rp-cand-policy-name</i>      | (Optional) |
| <i>bsr-policy-name</i>          | (Optional) |
| <i>rp-announce-policy-name</i>  | (Optional) |
| <i>rp-discovery-policy-name</i> | (Optional) |
| TABLE_anycast_rp                | (Optional) |
| TABLE_arp_rp                    | (Optional) |
| <i>is-rpaddr-local</i>          | (Optional) |
| TABLE_rp                        | (Optional) |
| <i>is-rp-in-cib</i>             | (Optional) |
| <i>df-ordinal</i>               | (Optional) |
| <i>rp-uptime</i>                | (Optional) |
| <i>rp-priority</i>              | (Optional) |
| <i>bsr-rp-expires</i>           | (Optional) |
| <i>is-rp-static</i>             | (Optional) |
| <i>static-rp-group-map</i>      | (Optional) |
| TABLE_grange                    | (Optional) |
| <i>grange-masklen</i>           | (Optional) |
| <i>is-bidir-grp</i>             | (Optional) |
| <i>is-bsr-rp-owner</i>          | (Optional) |
| <i>is-static-rp-owner</i>       | (Optional) |

**Command Mode**

- /exec

## show ipv6 pim statistics

```
show ipv6 pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_context [
<out-context> ] [ <uptime> ] [ <reg-sent> ] [ <reg-rcvd> ] [ <null-reg-sent> ] [ <null-reg-rcvd> ] [
<reg-stop-sent> ] [ <reg-stop-rcvd> ] [ <reg-rcvd-not-rp> ] [ <reg-rcvd-for-ssm> ] [ <reg-rcvd-for-bidir> ] [
<bootstrap-sent> ] [ <bootstrap-rcvd> ] [ <cand-rp-sent> ] [ <cand-rp-rcvd> ] [ <bs-no-nbr> ] [
<bs-border-deny> ] [ <bs-len-errors> ] [ <bs-rpf-failed> ] [ <bs-no-listen> ] [ <candrp-border-deny> ] [
<candrp-no-listen> ] [ <ctrl-no-route> ] [ <data-no-route> ] [ <no-state> ] [ <create-state> ] ] ] ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information             |
| ipv6                      | Display IPv6 information                    |
| pim                       | Display PIM6 status and configuration       |
| statistics                | Packet counter statistics                   |
| vrf                       | (Optional) Display per-VRF information      |
| <i>vrf-name</i>           | (Optional) VRF name                         |
| <i>vrf-known-name</i>     | (Optional) Known VRF name                   |
| all                       | (Optional) Display information for all VRFs |
| <i>__readonly__</i>       | (Optional)                                  |
| TABLE_context             | (Optional)                                  |
| <i>out-context</i>        | (Optional)                                  |
| <i>uptime</i>             | (Optional)                                  |
| <i>reg-sent</i>           | (Optional)                                  |
| <i>reg-rcvd</i>           | (Optional)                                  |
| <i>null-reg-sent</i>      | (Optional)                                  |
| <i>null-reg-rcvd</i>      | (Optional)                                  |
| <i>reg-stop-sent</i>      | (Optional)                                  |
| <i>reg-stop-rcvd</i>      | (Optional)                                  |
| <i>reg-rcvd-not-rp</i>    | (Optional)                                  |
| <i>reg-rcvd-for-ssm</i>   | (Optional)                                  |
| <i>reg-rcvd-for-bidir</i> | (Optional)                                  |
| <i>bootstrap-sent</i>     | (Optional)                                  |

|                           |            |
|---------------------------|------------|
| <i>bootstrap-rcvd</i>     | (Optional) |
| <i>cand-rp-sent</i>       | (Optional) |
| <i>cand-rp-rcvd</i>       | (Optional) |
| <i>bs-no-nbr</i>          | (Optional) |
| <i>bs-border-deny</i>     | (Optional) |
| <i>bs-len-errors</i>      | (Optional) |
| <i>bs-rpf-failed</i>      | (Optional) |
| <i>bs-no-listen</i>       | (Optional) |
| <i>candrp-border-deny</i> | (Optional) |
| <i>candrp-no-listen</i>   | (Optional) |
| <i>ctrl-no-route</i>      | (Optional) |
| <i>data-no-route</i>      | (Optional) |
| <i>no-state</i>           | (Optional) |
| <i>create-state</i>       | (Optional) |

**Command Mode**

- /exec

## show ipv6 pim vrf

```
show ipv6 pim vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ detail ] [ __readonly__ [ TABLE_context [
<out-context> ] [ <context-id> ] [ <count> ] [ <bfd-enabled> ] [ <table-id> ] [ <state-limit> ] [ <available-states>
] [ <reserved-limit> ] [ <available-reserved> ] [ <reserve-policy> ] [ <register-rate-limit-pps> ] [
<shared-tree-route-map> ] [ TABLE_RANGE [ <shared-tree-ranges> ] ] ] ] ]
```

### Syntax Description

|                                |  |
|--------------------------------|--|
| show                           | Show running system information                    |
| ipv6                           | Display IPv6 information                           |
| pim                            | Display PIM6 status and configuration              |
| vrf                            | Display per-VRF information                        |
| <i>vrf-name</i>                | (Optional) VRF name                                |
| <i>vrf-known-name</i>          | (Optional) Known VRF name                          |
| all                            | (Optional) Display all VRFs PIM6 is configured for |
| detail                         | (Optional) Display detailed information            |
| <i>__readonly__</i>            | (Optional)   |
| TABLE_context                  | (Optional)   |
| <i>out-context</i>             | (Optional)   |
| <i>context-id</i>              | (Optional)   |
| <i>table-id</i>                | (Optional)   |
| <i>count</i>                   | (Optional)   |
| <i>bfd-enabled</i>             | (Optional)   |
| <i>state-limit</i>             | (Optional)   |
| <i>available-states</i>        | (Optional)   |
| <i>reserved-limit</i>          | (Optional)   |
| <i>available-reserved</i>      | (Optional)   |
| <i>reserve-policy</i>          | (Optional)   |
| <i>register-rate-limit-pps</i> | (Optional)   |
| <i>shared-tree-route-map</i>   | (Optional)   |
| TABLE_RANGE                    | (Optional)   |

|                           |            |
|---------------------------|------------|
| <i>shared-tree-ranges</i> | (Optional) |
|---------------------------|------------|

**Command Mode**

- /exec

# show ipv6 policy

```
show ipv6 policy [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_pbr [ <interface> ] [ <rmap> ] [ <status> ] [ <vrf_name> ] } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ipv6                  | Display IPv6 information                    |
| policy                | Policy routing                              |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_pbr             | (Optional)                                  |
| <i>interface</i>      | (Optional)                                  |
| <i>rmap</i>           | (Optional)                                  |
| <i>status</i>         | (Optional)                                  |
| <i>vrf_name</i>       | (Optional)                                  |

## Command Mode

- /exec

## show ipv6 prefix-list

```
show ipv6 prefix-list { { [ detail | summary ] [ <ipv6-pfl-name> | <ipv6-pfl-cfg-name> ] } | { { <ipv6-pfl-name>
| <ipv6-pfl-cfg-name> } seq <seq-no> } | { { <ipv6-pfl-name> | <ipv6-pfl-cfg-name> } <prefix> [ first-match
| longer ] } } [ __readonly__ TABLE_ipv6_pfl <name> <seq> <action> <rule> ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information           |
| ipv6                     | Display IPv6 information                  |
| detail                   | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| summary                  | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| prefix-list              | List IPv6 prefix lists                    |
| <i>ipv6-pfl-name</i>     | (Optional) Name of prefix-list            |
| <i>ipv6-pfl-cfg-name</i> | (Optional) Known prefix-list name         |
| seq                      | Sequence number                           |
| <i>seq-no</i>            | Sequence number                           |
| first-match              | (Optional) Find the first match           |
| longer                   | (Optional) Find the more specific entries |
| <i>__readonly__</i>      | (Optional)                                |
| TABLE_ipv6_pfl           | (Optional)                                |
| <i>name</i>              | (Optional)                                |
| <i>seq</i>               | (Optional)                                |
| <i>action</i>            | (Optional)                                |
| <i>rule</i>              | (Optional)                                |

### Command Mode

- /exec

## show ipv6 route

```
show ipv6 route [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ipv6-addr> | { <ipv6-prefix>
[ { longer-prefixes | shorter-prefixes } ] } ] [ { <ipv6-protocol> [ all ] } | { bind-label <bind-lbl> | next-hop
<next-hop> } | { interface <interface> } | { updated { [ since <stime> ] [ until <utime> ] } } ] + [ summary |
{ [ detail ] [ deleted ] } ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_addrf <addrf> [ TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> [ <attached>
] TABLE_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl> ]
<uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <stalelbl> ] [ <hidden> ] ] [
TABLE_summary <routes> <paths> [ <multicast_paths> ] [ TABLE_unicast [ <clientnameuni> ] [ <best-paths>
] [ <backup-paths> ] ] [ TABLE_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [
TABLE_route_count [ <mask_len> ] [ <count> ] ] ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                                 |
| ipv6                  | Display IPv6 information  |
| route                 | Display IPv6 routing table                                      |
| vrf                   | (Optional) Display per-VRF information                          |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                       |
| vrf-all               | (Optional) Display information for all VRFs                     |
| unicast               | (Optional) Display unicast information                          |
| topology              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                       |
| <i>topology-name</i>  | (Optional) topology name  |
| l3vm-info             | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                       |
| rpf                   | (Optional) Display RPF information for multicast source         |
| longer-prefixes       | (Optional) Display matching routes with mask-lengths >= prefix  |
| shorter-prefixes      | (Optional) Display matching routes with mask-lengths <= prefix  |
| <i>ipv6-protocol</i>  | (Optional) Display routes for protocol (or route type)          |
| all                   | (Optional) Display routes for protocol for backup next-hops too |
| bind-label            | (Optional) Display routes with this bind-label only             |
| <i>bind-lbl</i>       | (Optional) Binding label  |
| next-hop              | (Optional) Display routes with this next-hop only               |
| interface             | (Optional) Display routes with this output interface only       |



|                         |   |
|-------------------------|---|
| <i>interface</i>        | (Optional) Interface Name                                   |
| updated                 | (Optional) Display routes filtered by last updated time     |
| since                   | (Optional) Display those routes updated since this time     |
| <i>stime</i>            | (Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS] |
| until                   | (Optional) Display those routes updated until this time     |
| <i>utime</i>            | (Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS] |
| summary                 | (Optional) Display route counts                             |
| deleted                 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                   |
| detail                  | (Optional) Display routes in full detail                    |
| <u>__readonly__</u>     | (Optional)  |
| TABLE_vrf               | (Optional)  |
| <i>vrf-name-out</i>     | (Optional)  |
| TABLE_addrf             | (Optional)  |
| <i>addrf</i>            | (Optional)  |
| TABLE_prefix            | (Optional)  |
| <i>ucast-nhops</i>      | (Optional)  |
| <i>mcast-nhops</i>      | (Optional)  |
| <i>attached</i>         | (Optional)  |
| TABLE_path              | (Optional)  |
| <i>ubest</i>            | (Optional)  |
| <i>mbest</i>            | (Optional)  |
| <i>nexthop-vrf-name</i> | (Optional)  |
| <i>ifname</i>           | (Optional)  |
| <i>bindlbl</i>          | (Optional)  |
| <i>pref</i>             | (Optional)  |
| <i>tag</i>              | (Optional)  |
| <i>metric</i>           | (Optional)  |
| <i>uptime</i>           | (Optional)  |
| <i>clientname</i>       | (Optional)  |

|                        |            |
|------------------------|------------|
| <i>type</i>            | (Optional) |
| <i>stale</i>           | (Optional) |
| <i>stalelbl</i>        | (Optional) |
| <i>hidden</i>          | (Optional) |
| TABLE_summary          | (Optional) |
| <i>routes</i>          | (Optional) |
| <i>paths</i>           | (Optional) |
| <i>multicast_paths</i> | (Optional) |
| TABLE_unicast          | (Optional) |
| <i>clientnameuni</i>   | (Optional) |
| <i>best-paths</i>      | (Optional) |
| <i>backup-paths</i>    | (Optional) |
| TABLE_multicast        | (Optional) |
| <i>clientnamemulti</i> | (Optional) |
| <i>best-paths</i>      | (Optional) |
| <i>backup-paths</i>    | (Optional) |
| TABLE_route_count      | (Optional) |
| <i>mask_len</i>        | (Optional) |
| <i>count</i>           | (Optional) |

**Command Mode**

- /exec

# show ipv6 snooping capture-policy

```
show ipv6 snooping capture-policy [ vlan <vlanid> ] [ interface <intf> ] [ __readonly__ <cmdout> ]
```

## Syntax Description

|                           |                                      |
|---------------------------|--------------------------------------|
| <code>show</code>         | Show running system information      |
| <code>ipv6</code>         | Show the IPv6 features of the system |
| <i>vlanid</i>             | (Optional) VLAN ID                   |
| <i>intf</i>               | (Optional) interface                 |
| <code>__readonly__</code> | (Optional)                           |
| <i>cmdout</i>             | (Optional)                           |

## Command Mode

- /exec

## show ipv6 snooping counters vlan

```
show ipv6 snooping counters { { vlan <vlanid> } | { interface <intf> } } [ __readonly__ [ {
TABLE_target_counters <target> [ { TABLE_protocol_msgs <protocol_name> [ { TABLE_sub_protocol_msgs
[ <subfield_name> ] [ <msg_count> ] } ] } ] [ { TABLE_bridged_msgs <protocol_name> [ {
TABLE_sub_protocol_msgs [ <subfield_name> ] [ <msg_count> ] } ] } ] [ { TABLE_dropped_msgs
<feature_name> <protocol_name> [ { TABLE_sub_protocol_msgs [ <subfield_name> ] [ <msg_count> ] [
<drop_reason> ] } ] } ] } ] }
```

### Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information        |
| ipv6                    | Show the IPv6 features of the system   |
| <i>vlanid</i>           | VLAN ID                                |
| <i>intf</i>             | interface                              |
| <i>__readonly__</i>     | (Optional)                             |
| TABLE_target_counters   | (Optional) Policy counters per target  |
| <i>target</i>           | (Optional) Target Name                 |
| TABLE_protocol_msgs     | (Optional) Protocol messages table     |
| <i>protocol_name</i>    | (Optional) Protocol name               |
| TABLE_sub_protocol_msgs | (Optional) Protocol sub-messages table |
| <i>subfield_name</i>    | (Optional) Sub-field name              |
| <i>msg_count</i>        | (Optional) Message count               |
| TABLE_bridged_msgs      | (Optional) Bridged messages table      |
| <i>protocol_name</i>    | (Optional) Protocol name               |
| TABLE_sub_protocol_msgs | (Optional) Protocol sub-messages table |
| <i>subfield_name</i>    | (Optional) Sub-field name              |
| <i>msg_count</i>        | (Optional) Message count               |
| TABLE_dropped_msgs      | (Optional) Bridged messages table      |
| <i>feature_name</i>     | (Optional) Feature name                |
| <i>protocol_name</i>    | (Optional) Protocol name               |
| TABLE_sub_protocol_msgs | (Optional) Protocol sub-messages table |
| <i>subfield_name</i>    | (Optional) Sub-field name              |

|                    |                          |
|--------------------|--------------------------|
| <i>msg_count</i>   | (Optional) Message count |
| <i>drop_reason</i> | (Optional) Drop reason   |

**Command Mode**

- /exec

# show ipv6 snooping events

show ipv6 snooping events [ \_\_readonly\_\_ <cmdout> ]

## Syntax Description

|               |                                      |
|---------------|--------------------------------------|
| show          | Show running system information      |
| ipv6          | Show the IPv6 features of the system |
| __readonly__  | (Optional)                           |
| <i>cmdout</i> | (Optional)                           |

## Command Mode

- /exec

# show ipv6 snooping features

```
show ipv6 snooping features [ __readonly__ { TABLE_features <name> <priority> <state> } ]
```

## Syntax Description

|                 |                                      |
|-----------------|--------------------------------------|
| show            | Show running system information      |
| ipv6            | Show the IPv6 features of the system |
| __readonly__    | (Optional)                           |
| TABLE_features  | (Optional) IPv6 Snooping Features    |
| <i>name</i>     | (Optional) Name                      |
| <i>priority</i> | (Optional) Priority                  |
| <i>state</i>    | (Optional) State                     |

## Command Mode

- /exec

# show ipv6 snooping messages

show ipv6 snooping messages [ detailed <count> ] [ \_\_readonly\_\_ <cmdout> ]

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information          |
| ipv6                | Show the IPv6 features of the system     |
| <i>count</i>        | (Optional) Number of messages to display |
| <i>__readonly__</i> | (Optional)                               |
| <i>cmdout</i>       | (Optional)                               |

## Command Mode

- /exec



# show ipv6 snooping policies

```
show ipv6 snooping policies { [ vlan <vlanid> ] | [ interface <intf> ] } [ __readonly__ { TABLE_policies
<target> <target_type> <policy> <feature> <target_range> } ]
```

## Syntax Description

|                     |                                      |
|---------------------|--------------------------------------|
| show                | Show running system information      |
| ipv6                | Show the IPv6 features of the system |
| <i>vlanid</i>       | (Optional) VLAN ID                   |
| <i>intf</i>         | (Optional) interface                 |
| __readonly__        | (Optional)                           |
| TABLE_policies      | (Optional) IPv6 Snooping Policies    |
| <i>target</i>       | (Optional) Target Name               |
| <i>target_type</i>  | (Optional) Target Type               |
| <i>policy</i>       | (Optional) Policy Name               |
| <i>feature</i>      | (Optional) Feature                   |
| <i>target_range</i> | (Optional) Target Range              |

## Command Mode

- /exec

## show ipv6 snooping policy

```
show ipv6 snooping policy [ <policy_name> ] [ __readonly__ { [ TABLE_glean_policy <policy> [ <port_type>
] <sec_lvl> <device_role> [ <data_glean> ] [ <dest_glean> ] [ <glean_type> ] [ <reachable_lifetime> ] [
<stale_lifetime> ] } { [ TABLE_non_glean_protocols | TABLE_glean_protocols # 395
../feature/sisf/core/nxos/src/sisf_glean_dme.cmd <protocol> [ <prefix_list> ] } ] [ <limit_address_cnt> ] [
<limit_address_cnt_v4_per_mac> ] [ <limit_address_cnt_v6_per_mac> ] [ <limit_address_cnt_v4_per_target>
] [ <tracking> ] { { [ TABLE_targets <target> <target_type> <target_policy> <feature> <target_range> ] } }
]
```

### Syntax Description

|  |  |
|--|--|
| show                                   | Show running system information              |
| ipv6                                   | Show the IPv6 features of the system         |
| <i>policy_name</i>                     | (Optional) Policy name for feature snooping  |
| <i>__readonly__</i>                    | (Optional)                                   |
| TABLE_glean_policy                     | (Optional) IPv6 DHCP guard policy            |
| <i>policy</i>                          | (Optional) Policy Name                       |
| <i>port_type</i>                       | (Optional) Port type                         |
| <i>sec_lvl</i>                         | (Optional) Security level                    |
| <i>device_role</i>                     | (Optional) Device role                       |
| <i>data_glean</i>                      | (Optional) Data glean                        |
| <i>dest_glean</i>                      | (Optional) Destination glean                 |
| <i>glean_type</i>                      | (Optional) Glean type                        |
| <i>reachable_lifetime</i>              | (Optional) Reachable lifetime                |
| <i>stale_lifetime</i>                  | (Optional) Stale lifetime                    |
| TABLE_non_glean_protocols              | (Optional) Non Glean protocols               |
| <i>protocol</i>                        | (Optional) Protocol                          |
| TABLE_glean_protocols                  | (Optional) Glean protocols                   |
| <i>prefix_list</i>                     | (Optional) Prefix list                       |
| <i>limit_address_cnt</i>               | (Optional) Limit address count               |
| <i>limit_address_cnt_v4_per_mac</i>    | (Optional) Limit address count v4 per mac    |
| <i>limit_address_cnt_v6_per_mac</i>    | (Optional) Limit address count v6 per mac    |
| <i>limit_address_cnt_v4_per_target</i> | (Optional) Limit address count v4 per target |

|                      |                          |
|----------------------|--------------------------|
| <i>tracking</i>      | (Optional) Tracking      |
| TABLE_targets        | (Optional) Targets table |
| <i>target</i>        | (Optional) Target Name   |
| <i>target_type</i>   | (Optional) Target Type   |
| <i>target_policy</i> | (Optional) Policy Name   |
| <i>feature</i>       | (Optional) Feature       |
| <i>target_range</i>  | (Optional) Target Range  |

**Command Mode**

- /exec

# show ipv6 snooping pss database

show ipv6 snooping pss database [ \_\_readonly\_\_ <cmdout> ]

## Syntax Description

|               |                                      |
|---------------|--------------------------------------|
| show          | Show running system information      |
| ipv6          | Show the IPv6 features of the system |
| __readonly__  | (Optional)                           |
| <i>cmdout</i> | (Optional)                           |

## Command Mode

- /exec

# show isis

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ process | protocol ] [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <instance_num> <uuid>
<process-id> <vrf-name-out> <system-id-out> <is-type-out> <sap-out> <qh-out> <mtu-out> [ <gr-status-out>
] [ <gr-state-active-out> ] [ <gr-state-inactive-out> ] [ <last-gr-status-fail-out> ] [ <last-gr-status-success-out>
] [ <last-gr-status-none-out> ] [ <gr-status-disable-out> ] [ TABLE_afi_safi <af-ix> <af-bfd-config>
<af-pib-tag> ] <metric-style> <accept-metric> [ <net-set-none> ] [ TABLE_area_addr <area-addr-nsap> ] [
<proc-state-not-config> ] [ <proc-state-admin-down> ] [ <proc-state-l3vm-down> ] [
<proc-state-unknown-down> ] [ <proc-state-not-specified> ] [ <proc-state-no-net> ] [ <proc-state-no-vrf-id>
] [ <proc-state-out-memory> ] [ <proc-state-restart> ] [ <proc-state-running> ] <vrf-id-out> [ TABLE_te
<te-lvl-out> <te-lvl-active> ] [ <te-ted-out> ] [ <mpls-te-out> ] [ TABLE_mpls_te [ <mpls-te-lvl-out> ] [
<mpls-te-rtrid-intf-out> ] [ <mpls-te-fa-lvl-out> ] [ TABLE_te_fa <te-fa-sysid-out> <te-fa-intf-out> ] [
<te-stat-sys-id-out> ] [ <te-stat-rtr-id-out> ] [ TABLE_te_stat_lvl <te-stat-lvl-out> <te-stat-up-out>
<te-stat-down-out> ] [ <srte-registered-out> ] [ TABLE_segment_routing <af-out> <ptag-out> <cfg-out>
<enable-out> [ <exp-null-cfg> ] ] [ TABLE_iib_list_yeild <intf-name-out> ] [ TABLE_auth <auth-lvl-out>
[ <auth-type-no-type> ] [ <auth-type-clear-text> ] [ <auth-type-md5> ] [ <auth-type-key-chain> ] [
<auth-type-none> ] [ <auth-check> ] [ <auth-no-check> ] ] [ TABLE_spf <spf-lvl-out> [ <spf-timer> ] ] [
TABLE_distribute_ls <distribute-linkst-lvl> ] ]
```

## Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information              |
| isis                   | Display IS-IS status and configuration       |
| <i>isis-tag</i>        | (Optional) Routing process tag               |
| vrf                    | (Optional) Display per-VRF information       |
| <i>vrf-name</i>        | (Optional) VRF name                          |
| <i>vrf-known-name</i>  | (Optional) Known VRF name                    |
| all                    | (Optional) Display information for all VRFs  |
| process                | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED    |
| protocol               | (Optional) Display IS-IS process information |
| __readonly__           | (Optional)                                   |
| TABLE_process_tag      | (Optional)                                   |
| <i>process-tag-out</i> | (Optional)                                   |
| <i>instance_num</i>    | (Optional)                                   |
| <i>uuid</i>            | (Optional)                                   |
| <i>process-id</i>      | (Optional)                                   |
| <i>vrf-name-out</i>    | (Optional)                                   |

|                                   |            |
|-----------------------------------|------------|
| <i>system-id-out</i>              | (Optional) |
| <i>is-type-out</i>                | (Optional) |
| <i>sap-out</i>                    | (Optional) |
| <i>qh-out</i>                     | (Optional) |
| <i>mtu-out</i>                    | (Optional) |
| <i>gr-status-out</i>              | (Optional) |
| <i>gr-state-active-out</i>        | (Optional) |
| <i>gr-state-inactive-out</i>      | (Optional) |
| <i>last-gr-status-fail-out</i>    | (Optional) |
| <i>last-gr-status-success-out</i> | (Optional) |
| <i>last-gr-status-none-out</i>    | (Optional) |
| <i>gr-status-disable-out</i>      | (Optional) |
| TABLE_afi_safi                    | (Optional) |
| <i>af-ix</i>                      | (Optional) |
| <i>af-bfd-config</i>              | (Optional) |
| <i>af-pib-tag</i>                 | (Optional) |
| <i>metric-style</i>               | (Optional) |
| <i>accept-metric</i>              | (Optional) |
| <i>net-set-none</i>               | (Optional) |
| TABLE_area_addr                   | (Optional) |
| <i>area-addr-nsap</i>             | (Optional) |
| <i>proc-state-not-config</i>      | (Optional) |
| <i>proc-state-admin-down</i>      | (Optional) |
| <i>proc-state-l3vm-down</i>       | (Optional) |
| <i>proc-state-unknown-down</i>    | (Optional) |
| <i>proc-state-not-specified</i>   | (Optional) |
| <i>proc-state-no-net</i>          | (Optional) |
| <i>proc-state-no-vrf-id</i>       | (Optional) |
| <i>proc-state-out-memory</i>      | (Optional) |

|                               |            |
|-------------------------------|------------|
| <i>proc-state-restart</i>     | (Optional) |
| <i>proc-state-running</i>     | (Optional) |
| <i>vrf-id-out</i>             | (Optional) |
| TABLE_te                      | (Optional) |
| <i>te-lvl-out</i>             | (Optional) |
| <i>te-lvl-active</i>          | (Optional) |
| <i>te-ted-out</i>             | (Optional) |
| <i>mpls-te-out</i>            | (Optional) |
| TABLE_mpls_te                 | (Optional) |
| <i>mpls-te-lvl-out</i>        | (Optional) |
| <i>mpls-te-rtrid-intf-out</i> | (Optional) |
| <i>mpls-te-fa-lvl-out</i>     | (Optional) |
| TABLE_te_fa                   | (Optional) |
| <i>te-fa-sysid-out</i>        | (Optional) |
| <i>te-fa-intf-out</i>         | (Optional) |
| <i>te-stat-sys-id-out</i>     | (Optional) |
| <i>te-stat-rtr-id-out</i>     | (Optional) |
| TABLE_te_stat_lvl             | (Optional) |
| <i>te-stat-lvl-out</i>        | (Optional) |
| <i>te-stat-up-out</i>         | (Optional) |
| <i>te-stat-down-out</i>       | (Optional) |
| <i>srte-registered-out</i>    | (Optional) |
| TABLE_segment_routing         | (Optional) |
| <i>af-out</i>                 | (Optional) |
| <i>ptag-out</i>               | (Optional) |
| <i>cfg-out</i>                | (Optional) |
| <i>enable-out</i>             | (Optional) |
| <i>exp-null-cfg</i>           | (Optional) |
| TABLE_iib_list_yeild          | (Optional) |

|                              |            |
|------------------------------|------------|
| <i>intf-name-out</i>         | (Optional) |
| TABLE_auth                   | (Optional) |
| <i>auth-lvl-out</i>          | (Optional) |
| <i>auth-type-no-type</i>     | (Optional) |
| <i>auth-type-cleartext</i>   | (Optional) |
| <i>auth-type-md5</i>         | (Optional) |
| <i>auth-type-key-chain</i>   | (Optional) |
| <i>auth-type-none</i>        | (Optional) |
| <i>auth-check</i>            | (Optional) |
| <i>auth-no-check</i>         | (Optional) |
| TABLE_spf                    | (Optional) |
| <i>spf-lvl-out</i>           | (Optional) |
| <i>spf-timer</i>             | (Optional) |
| TABLE_distribute_ls          | (Optional) |
| <i>distribute-linkst-lvl</i> | (Optional) |

### Command Mode

- /exec



## show isis adjacency

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] adjacency [ <interface> [ p2p-level-1-2 ] ] [ { system-id <sid> } | [ detail ] | [ summary ] } ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <adj-summary-out> <adj-interface-out> [ <adj-interface-name-out> ] [ { TABLE_process_adj <adj-sys-name-out> <adj-sys-id-out> [ <adj-usage-out> ] [ <adj-level-out> ] <adj-state-out> <adj-hold-time-out> <adj-intf-name-out> <adj-detail-set-out> [ { <adj-transitions-out> <adj-flap-out> [ <adj-flap-time-out> ] <adj-ckt-type-out> <adj-ipv4-addr-out> <adj-ipv6-addr-out> <adj-bcast-out> [ { <adj-ckt-id-out> <adj-lan-prio-out> } ] <adj-bfd-ipv4-establish-out> <adj-bfd-ipv6-establish-out> <adj-resurrect-out> [ { <adj-resurrect-count-out> <adj-resurrect-hwm-out> } ] <adj-restart-capable-out> <adj-restart-ack-out> [ { <adj-restart-mode-out> <adj-restart-adj-seen-ra-out> <adj-restart-adj-seen-csnp-out> <adj-restart-adj-seen-l1-csnp-out> <adj-restart-adj-seen-l2-csnp-out> <adj-restart-suppress-adj-out> } ] [ { TABLE_adj_sid <adj-sid-value> <adj-sid-f-flag> <adj-sid-b-flag> <adj-sid-v-flag> <adj-sid-l-flag> <adj-sid-s-flag> <adj-sid-p-flag> <adj-sid-weight> } } ] } ] [ { TABLE_p2p_adj_sum <adj-summ-p2p-level-out> <adj-summ-p2p-state-out> <adj-summ-p2p-count-out> } ] [ { TABLE_lan_adj_sum <adj-summ-lan-level-out> <adj-summ-lan-state-out> <adj-summ-lan-count-out> } } ] }
```

### Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information                                  |
| isis                   | Display IS-IS status and configuration                           |
| <i>isis-tag</i>        | (Optional) Routing process tag                                   |
| vrf                    | (Optional) Display per-VRF information                           |
| <i>vrf-name</i>        | (Optional) VRF name  |
| <i>vrf-known-name</i>  | (Optional) Known VRF name  |
| all                    | (Optional) Display information for all VRFs                      |
| adjacency              | Display IS-IS adjacency information                              |
| <i>interface</i>       | (Optional) IS-IS interface                                       |
| system-id              | (Optional) Hostname or System ID                                 |
| <i>sid</i>             | (Optional) Hostname or System ID (in the form of XXXX.XXXX.XXXX) |
| detail                 | (Optional) Display IS-IS adjacency detail information            |
| p2p-level-1-2          | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                        |
| summary                | (Optional) Display IS-IS adjacency summary information           |
| <i>__readonly__</i>    | (Optional)   |
| TABLE_process_tag      | (Optional)   |
| <i>process-tag-out</i> | (Optional)   |

|                                   |            |
|-----------------------------------|------------|
| TABLE_vrf                         | (Optional) |
| <i>vrf-name-out</i>               | (Optional) |
| <i>adj-summary-out</i>            | (Optional) |
| <i>adj-interface-out</i>          | (Optional) |
| <i>adj-interface-name-out</i>     | (Optional) |
| TABLE_process_adj                 | (Optional) |
| <i>adj-sys-name-out</i>           | (Optional) |
| <i>adj-sys-id-out</i>             | (Optional) |
| <i>adj-usage-out</i>              | (Optional) |
| <i>adj-level-out</i>              | (Optional) |
| <i>adj-state-out</i>              | (Optional) |
| <i>adj-hold-time-out</i>          | (Optional) |
| <i>adj-intf-name-out</i>          | (Optional) |
| <i>adj-detail-set-out</i>         | (Optional) |
| <i>adj-transitions-out</i>        | (Optional) |
| <i>adj-flap-out</i>               | (Optional) |
| <i>adj-flap-time-out</i>          | (Optional) |
| <i>adj-ckt-type-out</i>           | (Optional) |
| <i>adj-ipv4-addr-out</i>          | (Optional) |
| <i>adj-ipv6-addr-out</i>          | (Optional) |
| <i>adj-bcast-out</i>              | (Optional) |
| <i>adj-ckt-id-out</i>             | (Optional) |
| <i>adj-lan-prio-out</i>           | (Optional) |
| <i>adj-bfd-ipv4-establish-out</i> | (Optional) |
| <i>adj-bfd-ipv6-establish-out</i> | (Optional) |
| <i>adj-resurrect-out</i>          | (Optional) |
| <i>adj-resurrect-count-out</i>    | (Optional) |
| <i>adj-resurrect-hwm-out</i>      | (Optional) |
| <i>adj-restart-capable-out</i>    | (Optional) |

|   |            |
|---|------------|
| <i>adj-restart-ack-out</i>              | (Optional) |
| <i>adj-restart-mode-out</i>             | (Optional) |
| <i>adj-restart-adj-seen-ra-out</i>      | (Optional) |
| <i>adj-restart-adj-seen-csnp-out</i>    | (Optional) |
| <i>adj-restart-adj-seen-l1-csnp-out</i> | (Optional) |
| <i>adj-restart-adj-seen-l2-csnp-out</i> | (Optional) |
| <i>adj-restart-suppress-adj-out</i>     | (Optional) |
| TABLE_adj_sid                           | (Optional) |
| <i>adj-sid-value</i>                    | (Optional) |
| <i>adj-sid-f-flag</i>                   | (Optional) |
| <i>adj-sid-b-flag</i>                   | (Optional) |
| <i>adj-sid-v-flag</i>                   | (Optional) |
| <i>adj-sid-l-flag</i>                   | (Optional) |
| <i>adj-sid-s-flag</i>                   | (Optional) |
| <i>adj-sid-p-flag</i>                   | (Optional) |
| <i>adj-sid-weight</i>                   | (Optional) |
| TABLE_p2p_adj_sum                       | (Optional) |
| <i>adj-summ-p2p-level-out</i>           | (Optional) |
| <i>adj-summ-p2p-state-out</i>           | (Optional) |
| <i>adj-summ-p2p-count-out</i>           | (Optional) |
| TABLE_lan_adj_sum                       | (Optional) |
| <i>adj-summ-lan-level-out</i>           | (Optional) |
| <i>adj-summ-lan-state-out</i>           | (Optional) |
| <i>adj-summ-lan-count-out</i>           | (Optional) |

### Command Mode

- /exec

## show isis csnp

```
show isis [ <isis-tag> ] csnp [ detail ] [ __readonly__ TABLE_process_tag <process-tag-out> [ {
TABLE_CSNPLEVEL <csnp-level> <csnp-cache-valid> <csnp-cache-hit> <cscnp-cache-miss> <csnp-hit-rate>
[ { TABLE_CSNPLSPS <csnp-start-lsp-id> <csnp-end-lsp-id> <csnp-entry-valid> <csnp-pdu-lengh> [ {
TABLE_CSNPONELSP <csnp-lsp-id> <csnp-lsp-seq-num> <csnp-lsp-chk-sum> <csnp-lsp-life-time> } ] }
] } ] ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information               |
| isis                     | Display IS-IS status and configuration        |
| <i>isis-tag</i>          | (Optional) Routing process tag                |
| csnp                     | Display IS-IS CSNP cache contents             |
| detail                   | (Optional) Display detailed IS-IS information |
| <i>__readonly__</i>      | (Optional)                                    |
| TABLE_process_tag        | (Optional)                                    |
| <i>process-tag-out</i>   | (Optional)                                    |
| TABLE_CSNPLEVEL          | (Optional)                                    |
| <i>csnp-level</i>        | (Optional)                                    |
| <i>csnp-cache-valid</i>  | (Optional)                                    |
| <i>csnp-cache-hit</i>    | (Optional)                                    |
| <i>cscnp-cache-miss</i>  | (Optional)                                    |
| <i>csnp-hit-rate</i>     | (Optional)                                    |
| TABLE_CSNPLSPS           | (Optional)                                    |
| <i>csnp-start-lsp-id</i> | (Optional)                                    |
| <i>csnp-end-lsp-id</i>   | (Optional)                                    |
| <i>csnp-entry-valid</i>  | (Optional)                                    |
| <i>csnp-pdu-lengh</i>    | (Optional)                                    |
| TABLE_CSNPONELSP         | (Optional)                                    |
| <i>csnp-lsp-id</i>       | (Optional)                                    |
| <i>csnp-lsp-seq-num</i>  | (Optional)                                    |
| <i>csnp-lsp-chk-sum</i>  | (Optional)                                    |

|                           |            |
|---------------------------|------------|
| <i>csnp-lsp-life-time</i> | (Optional) |
|---------------------------|------------|

**Command Mode**

- /exec

## show isis database

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database [ <level> ] [ detail | advertise
| summary ] [ <lid> ] { [ zero-sequence ] | [ ip prefix <ip-prefix> ] | [ ipv6 prefix <ipv6-prefix> ] | [ router-id
<rid> ] | [ adjacency <adj-id> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ {
TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> [ <dbase-hname-absent-out> ] [ {
TABLE_process_lvl <dbase-level-out> [ { TABLE_process_lsp <dbase-lsp-name-out> <dbase-lsp-status-out>
<dbase-lsp-absent-out> [ { <dbase-lsp-seqnum-out> <dbase-lsp-cksum-out> [ <dbase-lsp-lifetime-str-out> ]
[ <dbase-lsp-lifetime-out> ] <dbase-att-out> <dbase-partition-out> <dbase-overload-out> <dbase-istype-out>
} ] [ <dbase-lsp-instance-out> [ { TABLE_process_tlv <dbase-lsp-tlv-name-out> [ <dbase-lsp-area-addr-out>
] [ <dbase-lsp-is-nbr-name-out> ] [ <dbase-lsp-is-nbr-metric-out> ] [ <dbase-lsp-is-nbr-ext-metric-out> ] [
<dbase-lsp-es-nbr-name-out> ] [ <dbase-lsp-es-nbr-metric-out> ] [ <dbase-lsp-es-nbr-ext-metric-out> ] [
<dbase-lsp-auth-type-out> ] [ <dbase-lsp-auth-len-out> ] [ { TABLE_process_extis [
<dbase-lsp-ext-is-name-out> ] [ <dbase-lsp-ext-is-metric-out> ] } ] [ <dbase-lsp-ip-ri-addr-out> ] [
<dbase-lsp-ip-ri-mask-out> ] [ <dbase-lsp-ip-ri-metric-out> ] [ <dbase-lsp-ip-ri-ext-metric-out> ] [
<dbase-lsp-ip-ri-up-down-out> ] [ <dbase-lsp-cap-rtrid> ] [ <dbase-lsp-cap-flags> ] [ { TABLE_process_nlpid
<dbase-lsp-prot-support-out> } ] [ <dbase-lsp-ip-addr-out> ] [ <dbase-lsp-ipv6-addr-out> ] [ {
TABLE_process_extip <dbase-lsp-extip-addr-out> <dbase-lsp-extip-prefix-len-out>
<dbase-lsp-extip-metric-out> <dbase-lsp-extip-up-down-out> [ <dbase-lsp-extip-pfxsid> ] [
<dbase-lsp-extip-pfxsid-algo> ] [ <dbase-lsp-extip-pfxsid-flags> ] [ <dbase-lsp-extip-unknown-out> } ] [
<dbase-lsp-hname-out> ] [ <dbase-lsp-hname-len-out> ] [ { TABLE_process_extipv6
<dbase-lsp-extipv6-addr-out> <dbase-lsp-extipv6-prefix-len-out> <dbase-lsp-extipv6-metric-out>
<dbase-lsp-extipv6-up-down-out> <dbase-lsp-extipv6-ext-origin-out> [ <dbase-lsp-extipv6-pfxsid> ] [
<dbase-lsp-extipv6-pfxsid-algo> ] [ <dbase-lsp-extipv6-pfxsid-flags> ] [ <dbase-lsp-extipv6-unknown-out>
} ] [ { TABLE_process_subtlv <dbase-lsp-subtlv-name-out> [ <dbase-lsp-extis-admin-group-out> ] [
<dbase-lsp-subtlv-ip-addr-out> ] [ <dbase-lsp-extis-bw-out> ] [ <dbase-lsp-extis-pri1-out> ] [
<dbase-lsp-extis-pri1-val-out> ] [ <dbase-lsp-extis-pri2-out> ] [ <dbase-lsp-extis-pri2-val-out> ] [
<dbase-lsp-extis-te-metric-out> ] [ <dbase-lsp-extis-p2p-adjsid-out> ] [ <dbase-lsp-extis-p2p-adjsid-flags> ]
[ <dbase-lsp-extis-p2p-adjsid-weight> ] [ <dbase-lsp-extis-lan-adjsid-out> ] [ <dbase-lsp-extis-lan-adjsid-sysid>
] [ <dbase-lsp-extis-lan-adjsid-flags> ] [ <dbase-lsp-extis-lan-adjsid-weight> ] [
<dbase-lsp-cap-subtlv-sr-start-sid> ] [ <dbase-lsp-cap-subtlv-sr-end-sid> ] [ <dbase-lsp-cap-subtlv-sr-range>
] [ <dbase-lsp-cap-subtlv-sr-flags> ] [ <dbase-lsp-subtlv-len-out> ] [ <dbase-lsp-subtlv-unknown-out> } ] [
<dbase-lsp-tlv-len-out> ] [ <dbase-lsp-tlv-unknown-out> } ] } ] <dbase-lsp-digest-out> } ] } ] [ {
<dbase-lsp-total-out> [ { <dbase-lsp-empty-out> <dbase-lsp-zeroseq-out> } ] } ] } ] }
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| isis                  | Display IS-IS status and configuration      |
| <i>isis-tag</i>       | (Optional) Routing process tag              |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| database              | Display IS-IS database information          |

|                                   |   |
|-----------------------------------|---|
| <i>level</i>                      | (Optional) IS-IS level                                |
| <i>lid</i>                        | (Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX |
| <i>detail</i>                     | (Optional) Display detailed IS-IS information         |
| <i>advertise</i>                  | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED             |
| <i>summary</i>                    | (Optional) Display summary IS-IS information          |
| <i>zero-sequence</i>              | (Optional) LSP with zero sequence number              |
| <i>ip</i>                         | (Optional) IP attribute filter                        |
| <i>ipv6</i>                       | (Optional) IPv6 attribute filter                      |
| <i>prefix</i>                     | (Optional) Prefix filter                              |
| <i>ip-prefix</i>                  | (Optional) Single exact match IP prefix filter        |
| <i>adjacency</i>                  | (Optional) Adjacency filter                           |
| <i>adj-id</i>                     | (Optional) Single exact match adjacency filter        |
| <i>router-id</i>                  | (Optional) Router-id filter                           |
| <i>rid</i>                        | (Optional) single exact match router-id filter        |
| <i>__readonly__</i>               | (Optional)  |
| <i>TABLE_process_tag</i>          | (Optional)  |
| <i>process-tag-out</i>            | (Optional)  |
| <i>TABLE_vrf</i>                  | (Optional)  |
| <i>vrf-name-out</i>               | (Optional)  |
| <i>dbase-hname-absent-out</i>     | (Optional)  |
| <i>TABLE_process_lvl</i>          | (Optional)  |
| <i>dbase-level-out</i>            | (Optional)  |
| <i>TABLE_process_lsp</i>          | (Optional)  |
| <i>dbase-lsp-name-out</i>         | (Optional)  |
| <i>dbase-lsp-status-out</i>       | (Optional)  |
| <i>dbase-lsp-absent-out</i>       | (Optional)  |
| <i>dbase-lsp-seqnum-out</i>       | (Optional)  |
| <i>dbase-lsp-cksum-out</i>        | (Optional)  |
| <i>dbase-lsp-lifetime-str-out</i> | (Optional)  |

|  |            |
|--|------------|
| <i>dbase-lsp-lifetime-out</i>          | (Optional) |
| <i>dbase-att-out</i>                   | (Optional) |
| <i>dbase-partition-out</i>             | (Optional) |
| <i>dbase-overload-out</i>              | (Optional) |
| <i>dbase-istype-out</i>                | (Optional) |
| <i>dbase-lsp-instance-out</i>          | (Optional) |
| TABLE_process_tlv                      | (Optional) |
| <i>dbase-lsp-tlv-name-out</i>          | (Optional) |
| <i>dbase-lsp-area-addr-out</i>         | (Optional) |
| <i>dbase-lsp-is-nbr-name-out</i>       | (Optional) |
| <i>dbase-lsp-is-nbr-metric-out</i>     | (Optional) |
| <i>dbase-lsp-is-nbr-ext-metric-out</i> | (Optional) |
| <i>dbase-lsp-es-nbr-name-out</i>       | (Optional) |
| <i>dbase-lsp-es-nbr-metric-out</i>     | (Optional) |
| <i>dbase-lsp-es-nbr-ext-metric-out</i> | (Optional) |
| <i>dbase-lsp-auth-type-out</i>         | (Optional) |
| <i>dbase-lsp-auth-len-out</i>          | (Optional) |
| TABLE_process_extis                    | (Optional) |
| <i>dbase-lsp-ext-is-name-out</i>       | (Optional) |
| <i>dbase-lsp-ext-is-metric-out</i>     | (Optional) |
| <i>dbase-lsp-ip-ri-addr-out</i>        | (Optional) |
| <i>dbase-lsp-ip-ri-mask-out</i>        | (Optional) |
| <i>dbase-lsp-ip-ri-metric-out</i>      | (Optional) |
| <i>dbase-lsp-ip-ri-ext-metric-out</i>  | (Optional) |
| <i>dbase-lsp-ip-ri-up-down-out</i>     | (Optional) |
| TABLE_process_nlpid                    | (Optional) |
| <i>dbase-lsp-prot-support-out</i>      | (Optional) |
| <i>dbase-lsp-ip-addr-out</i>           | (Optional) |
| <i>dbase-lsp-ipv6-addr-out</i>         | (Optional) |



|   |            |
|---|------------|
| TABLE_process_extip                     | (Optional) |
| <i>dbase-lsp-extip-addr-out</i>         | (Optional) |
| <i>dbase-lsp-extip-prefix-len-out</i>   | (Optional) |
| <i>dbase-lsp-extip-metric-out</i>       | (Optional) |
| <i>dbase-lsp-extip-up-down-out</i>      | (Optional) |
| <i>dbase-lsp-extip-pfxsid</i>           | (Optional) |
| <i>dbase-lsp-extip-pfxsid-algo</i>      | (Optional) |
| <i>dbase-lsp-extip-pfxsid-flags</i>     | (Optional) |
| <i>dbase-lsp-extip-unknown-out</i>      | (Optional) |
| <i>dbase-lsp-hname-out</i>              | (Optional) |
| <i>dbase-lsp-hname-len-out</i>          | (Optional) |
| TABLE_process_extipv6                   | (Optional) |
| <i>dbase-lsp-extipv6-addr-out</i>       | (Optional) |
| <i>dbase-lsp-extipv6-prefix-len-out</i> | (Optional) |
| <i>dbase-lsp-extipv6-metric-out</i>     | (Optional) |
| <i>dbase-lsp-extipv6-up-down-out</i>    | (Optional) |
| <i>dbase-lsp-extipv6-ext-origin-out</i> | (Optional) |
| <i>dbase-lsp-extipv6-pfxsid</i>         | (Optional) |
| <i>dbase-lsp-extipv6-pfxsid-algo</i>    | (Optional) |
| <i>dbase-lsp-extipv6-pfxsid-flags</i>   | (Optional) |
| <i>dbase-lsp-extipv6-unknown-out</i>    | (Optional) |
| <i>dbase-lsp-tlv-len-out</i>            | (Optional) |
| <i>dbase-lsp-tlv-unknown-out</i>        | (Optional) |
| TABLE_process_subtlv                    | (Optional) |
| <i>dbase-lsp-subtlv-name-out</i>        | (Optional) |
| <i>dbase-lsp-extis-admin-group-out</i>  | (Optional) |
| <i>dbase-lsp-subtlv-ip-addr-out</i>     | (Optional) |
| <i>dbase-lsp-extis-bw-out</i>           | (Optional) |
| <i>dbase-lsp-extis-pri1-out</i>         | (Optional) |

|  |            |
|--|------------|
| <i>dbase-lsp-extis-pri1-val-out</i>      | (Optional) |
| <i>dbase-lsp-extis-pri2-out</i>          | (Optional) |
| <i>dbase-lsp-extis-pri2-val-out</i>      | (Optional) |
| <i>dbase-lsp-extis-te-metric-out</i>     | (Optional) |
| <i>dbase-lsp-extis-p2p-adjsid-out</i>    | (Optional) |
| <i>dbase-lsp-extis-p2p-adjsid-flags</i>  | (Optional) |
| <i>dbase-lsp-extis-p2p-adjsid-weight</i> | (Optional) |
| <i>dbase-lsp-extis-lan-adjsid-out</i>    | (Optional) |
| <i>dbase-lsp-extis-lan-adjsid-sysid</i>  | (Optional) |
| <i>dbase-lsp-extis-lan-adjsid-flags</i>  | (Optional) |
| <i>dbase-lsp-extis-lan-adjsid-weight</i> | (Optional) |
| <i>dbase-lsp-subtlv-len-out</i>          | (Optional) |
| <i>dbase-lsp-subtlv-unknown-out</i>      | (Optional) |
| <i>dbase-lsp-digest-out</i>              | (Optional) |
| <i>dbase-lsp-total-out</i>               | (Optional) |
| <i>dbase-lsp-empty-out</i>               | (Optional) |
| <i>dbase-lsp-zeroseq-out</i>             | (Optional) |
| <i>dbase-lsp-cap-rtrid</i>               | (Optional) |
| <i>dbase-lsp-cap-flags</i>               | (Optional) |
| <i>dbase-lsp-cap-subtlv-sr-start-sid</i> | (Optional) |
| <i>dbase-lsp-cap-subtlv-sr-end-sid</i>   | (Optional) |
| <i>dbase-lsp-cap-subtlv-sr-range</i>     | (Optional) |
| <i>dbase-lsp-cap-subtlv-sr-flags</i>     | (Optional) |

### Command Mode

- /exec

## show isis distribute-ls

```
show isis [ <isis-tag> ] distribute-ls { [ system-id <sid> ] [ lsp-id <lid> ] } [ brief ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <vrf-name-out>
<vrf-id-out> <lslib-connection-out> <client-type-out> <protocol-instance-out> <nxos-instance-out>
<ha-recovery-out> [ <queue-all-out> ] <update-timer-sec-out> <update-timer-msec-out>
<update-timer-running-out> [ <update-timer-due-in> ] [ { TABLE_process_lvl <level-out>
<level-distributing-out> [ { TABLE_ls_node [ <node-id-out> ] [ <node-name-out> ] [ { TABLE_ls_lsp
<lsp-id-out> <lsp-name-out> <lsp-purged-out> [ <node-grpid-out> ] [ <prefix-grpid-out> ] [ <link-grpid-out>
] [ <node-attr-bitfield-out> ] [ <node-flags-out> ] [ <attached-bit-out> ] [ <overloaded-bit-out> ] [ <area-id-out>
] [ <area-length-out> ] [ <name-out> ] [ <ipv4-id-out> ] [ { TABLE_srgb <number-out> <start-out> <size-out>
} ] [ <sr-algo-count-out> ] [ { TABLE_sr_algo <algo-out> } ] [ { TABLE_ls_link <nbr-node-out>
<local-ip-out> <remote-ip-out> [ <link-attr-bitfield-out> ] [ <metric-out> ] [ <local-ip-attr-out> ] [
<remote-ip-attr-out> ] [ <admin-group-out> ] [ <max-link-bw-out> ] [ <max-resv-bw-out> ] [ {
TABLE_unresv_bw <number-out> <bw-out> } ] [ <metric-te-out> ] [ { TABLE_adj_sid <asid-out> <flag-out>
<weight-out> } ] } ] [ { TABLE_ls_prefix <prefix-out> <prefix-len-out> [ <prefix-attr-bitfield-out> ] [
<metric-out> ] [ { TABLE_sid <sid-out> <algo-out> <flags-out> } ] } ] } ] }
```

### Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information                                  |
| isis                   | Display IS-IS status and configuration                           |
| <i>isis-tag</i>        | (Optional) Routing process tag                                   |
| distribute-ls          | Link-state distribution database                                 |
| system-id              | (Optional) Hostname or System ID                                 |
| <i>sid</i>             | (Optional) Hostname or System ID (in the form of XXXX.XXXX.XXXX) |
| lsp-id                 | (Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX            |
| <i>lid</i>             | (Optional) LSP ID in the form of XXXX.XXXX.XXXX.XX-XX            |
| brief                  | (Optional) Short output  |
| vrf                    | (Optional) Display per-VRF information                           |
| <i>vrf-name</i>        | (Optional) VRF name  |
| <i>vrf-known-name</i>  | (Optional) Known VRF name  |
| all                    | (Optional) Display information for all VRFs                      |
| __readonly__           | (Optional)   |
| TABLE_process_tag      | (Optional)   |
| <i>process-tag-out</i> | (Optional)   |
| <i>vrf-name-out</i>    | (Optional)   |

|                                 |            |
|---------------------------------|------------|
| <i>vrf-id-out</i>               | (Optional) |
| <i>lslib-connection-out</i>     | (Optional) |
| <i>client-type-out</i>          | (Optional) |
| <i>protocol-instance-out</i>    | (Optional) |
| <i>nxos-instance-out</i>        | (Optional) |
| <i>ha-recovery-out</i>          | (Optional) |
| <i>queue-all-out</i>            | (Optional) |
| <i>update-timer-sec-out</i>     | (Optional) |
| <i>update-timer-msec-out</i>    | (Optional) |
| <i>update-timer-running-out</i> | (Optional) |
| <i>update-timer-due-in</i>      | (Optional) |
| TABLE_process_lvl               | (Optional) |
| <i>level-out</i>                | (Optional) |
| <i>level-distributing-out</i>   | (Optional) |
| TABLE_ls_node                   | (Optional) |
| <i>node-id-out</i>              | (Optional) |
| <i>node-name-out</i>            | (Optional) |
| TABLE_ls_lsp                    | (Optional) |
| <i>lsp-id-out</i>               | (Optional) |
| <i>lsp-name-out</i>             | (Optional) |
| <i>lsp-purged-out</i>           | (Optional) |
| <i>node-grpid-out</i>           | (Optional) |
| <i>prefix-grpid-out</i>         | (Optional) |
| <i>link-grpid-out</i>           | (Optional) |
| <i>node-attr-bitfield-out</i>   | (Optional) |
| <i>node-flags-out</i>           | (Optional) |
| <i>attached-bit-out</i>         | (Optional) |
| <i>overloaded-bit-out</i>       | (Optional) |
| <i>area-id-out</i>              | (Optional) |

|                               |            |
|-------------------------------|------------|
| <i>area-length-out</i>        | (Optional) |
| <i>name-out</i>               | (Optional) |
| <i>ipv4-id-out</i>            | (Optional) |
| TABLE_srgb                    | (Optional) |
| <i>number-out</i>             | (Optional) |
| <i>start-out</i>              | (Optional) |
| <i>size-out</i>               | (Optional) |
| <i>sr-algo-count-out</i>      | (Optional) |
| TABLE_sr_algo                 | (Optional) |
| <i>algo-out</i>               | (Optional) |
| TABLE_ls_link                 | (Optional) |
| <i>nbr-node-out</i>           | (Optional) |
| <i>local-ip-out</i>           | (Optional) |
| <i>remote-ip-out</i>          | (Optional) |
| <i>link-attr-bitfield-out</i> | (Optional) |
| <i>metric-out</i>             | (Optional) |
| <i>local-ip-attr-out</i>      | (Optional) |
| <i>remote-ip-attr-out</i>     | (Optional) |
| <i>admin-group-out</i>        | (Optional) |
| <i>max-link-bw-out</i>        | (Optional) |
| <i>max-resv-bw-out</i>        | (Optional) |
| TABLE_unresv_bw               | (Optional) |
| <i>number-out</i>             | (Optional) |
| <i>bw-out</i>                 | (Optional) |
| <i>metric-te-out</i>          | (Optional) |
| TABLE_adj_sid                 | (Optional) |
| <i>asid-out</i>               | (Optional) |
| <i>flag-out</i>               | (Optional) |
| <i>weight-out</i>             | (Optional) |

|                                 |            |
|---------------------------------|------------|
| TABLE_ls_prefix                 | (Optional) |
| <i>prefix-out</i>               | (Optional) |
| <i>prefix-len-out</i>           | (Optional) |
| <i>prefix-attr-bitfield-out</i> | (Optional) |
| <i>metric-out</i>               | (Optional) |
| TABLE_sid                       | (Optional) |
| <i>sid-out</i>                  | (Optional) |
| <i>algo-out</i>                 | (Optional) |
| <i>flags-out</i>                | (Optional) |

**Command Mode**

- /exec

# show isis dynamic-flooding

```
show isis [ <isis-tag> ] dynamic-flooding [ tree-1 | tree-2 ] [ detail ] [ __readonly__ [ <df-process-tag-out> ]
[ <df-vrf-name-out> ] [ { TABLE_df_level [ <df-level-out> ] [ <df-level-config-out> ] [ <df-area-leader-cap-out> ]
[ <df-area-leader-level-out> ] [ <df-algo-name-out> ] [ <df-algorithm-out> ] [ <df-priority-out> ] [
<df-primary-leader-level-out> ] [ <df-primary-leader-algo-name> ] [ <df-primary-leader-algo-out> ] [
<df-primary-leader-priority-out> ] [ <df-primary-leader-sysid-out> ] [ <df-secondary-leader-level-out> ] [
<df-secondary-leader-algo-name-out> ] [ <df-secondary-leader-algo-out> ] [ <df-secondary-leader-priority-out> ]
[ <df-secondary-leader-sysid-out> ] [ <df-reach-matrix-level-out> ] [ { TABLE_source_info [
<df-reach-source-id-info> ] [ { TABLE_neighbor_info [ <df-reach-neighbor-id-out> ] [
<df-neighbor-overall-out> ] [ <df-neighbor-tree1-out> ] [ <df-neighbor-tree2-out> ] [
<df-neighbor-interface-id-out> ] [ <df-neighbor-name-out> ] } } ] [ { TABLE_FT_interface_info [
<df-ft-interface-name-out> ] } ] [ { TABLE_Temp_interface_info [ <df-temp-ft-interface-name-out> ] } ] [
{ TABLE_broadcast_interfaceinfo [ <df-interface-name-out> ] } } ] }
```

## Syntax Description

|                                    |  |
|------------------------------------|--|
| show                               | Show running system information                            |
| isis                               | IS-IS events   |
| <i>isis-tag</i>                    | (Optional) Routing process tag                             |
| dynamic-flooding                   | Display IS-IS information for Dynamic Flooding             |
| tree-1                             | (Optional) Display dynamic-flooding information for tree-1 |
| tree-2                             | (Optional) Display dynamic-flooding information for tree-2 |
| detail                             | (Optional) Detail to show the Dynamic Flooding area leader |
| __readonly__                       | (Optional)   |
| <i>df-process-tag-out</i>          | (Optional)   |
| <i>df-vrf-name-out</i>             | (Optional)   |
| TABLE_df_level                     | (Optional)   |
| <i>df-level-out</i>                | (Optional)   |
| <i>df-level-config-out</i>         | (Optional)   |
| <i>df-area-leader-cap-out</i>      | (Optional)   |
| <i>df-area-leader-level-out</i>    | (Optional)   |
| <i>df-algo-name-out</i>            | (Optional)   |
| <i>df-algorithm-out</i>            | (Optional)   |
| <i>df-priority-out</i>             | (Optional)   |
| <i>df-primary-leader-level-out</i> | (Optional)   |

|  |            |
|--|------------|
| <i>df-primary-leader-algo-name</i>       | (Optional) |
| <i>df-primary-leader-algo-out</i>        | (Optional) |
| <i>df-primary-leader-priority-out</i>    | (Optional) |
| <i>df-primary-leader-sysid-out</i>       | (Optional) |
| <i>df-secondary-leader-level-out</i>     | (Optional) |
| <i>df-secondary-leader-algo-name-out</i> | (Optional) |
| <i>df-secondary-leader-algo-out</i>      | (Optional) |
| <i>df-secondary-leader-priority-out</i>  | (Optional) |
| <i>df-secondary-leader-sysid-out</i>     | (Optional) |
| <i>df-reach-matrix-level-out</i>         | (Optional) |
| TABLE_source_info                        | (Optional) |
| <i>df-reach-source-id-info</i>           | (Optional) |
| TABLE_neighbor_info                      | (Optional) |
| <i>df-reach-neighbor-id-out</i>          | (Optional) |
| <i>df-neighbor-overall-out</i>           | (Optional) |
| <i>df-neighbor-tree1-out</i>             | (Optional) |
| <i>df-neighbor-tree2-out</i>             | (Optional) |
| <i>df-neighbor-interface-id-out</i>      | (Optional) |
| <i>df-neighbor-name-out</i>              | (Optional) |
| TABLE_FT_interface_info                  | (Optional) |
| <i>df-ft-interface-name-out</i>          | (Optional) |
| TABLE_Temp_interface_info                | (Optional) |
| <i>df-temp-ft-interface-name-out</i>     | (Optional) |
| TABLE_broadcast_interfaceinfo            | (Optional) |
| <i>df-interface-name-out</i>             | (Optional) |

**Command Mode**

- /exec



## show isis interface

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] interface [ brief | <interface> ] [ level-1
| level-2 ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag
<process-tag-out> { TABLE_vrf <vrf-name-out> [ { TABLE_interface [ { <intfb-name-out> <intfb-type-out>
<intfb-ix-out> <intfb-state-out> <intfb-ready-state-out> <intfb-cid-out> <intfb-ckt-type-out> <intfb-mtu-out>
[ { <intf-p2p-metric-lvl-1-out> <intf-p2p-metric-lvl-2-out> <intf-p2p-prio-lvl-1-out> <intf-p2p-prio-lvl-2-out>
<intf-p2p-adj-count-lvl-1-out> <intf-p2p-adj-up-count-lvl-1-out> <intf-p2p-adj-count-lvl-2-out>
<intf-p2p-adj-up-count-lvl-2-out> } ] [ { <intf-loopback-metric-lvl-1-out> <intf-loopback-metric-lvl-2-out>
<intf-loopback-prio-lvl-1-out> <intf-loopback-prio-lvl-2-out> <intf-loopback-adj-count-lvl-1-out>
<intf-loopback-adj-up-count-lvl-1-out> <intf-loopback-adj-count-lvl-2-out>
<intf-loopback-adj-up-count-lvl-2-out> } ] [ { <intf-bcast-metric-lvl-1-out> <intf-bcast-metric-lvl-2-out>
<intf-bcast-prio-lvl-1-out> <intf-bcast-prio-lvl-2-out> <intf-bcast-adj-count-lvl-1-out>
<intf-bcast-adj-up-count-lvl-1-out> <intf-bcast-adj-count-lvl-2-out> <intf-bcast-adj-up-count-lvl-2-out> } ]
} ] [ { <intf-name-out> <intf-status-out> } ] [ { <intf-state-out> <intf-internal-state-out> [
<intf-cib-disabled-out> ] [ <intf-cid-invalid-out> ] ] [ <intf-admin-group-out> <intf-admin-group-stale-out>
] [ { TABLE_auth [ { <intf-auth-info-out> [ <intf-auth-kchain-out> ] <intf-auth-chk-info-out> } ] } ] [ {
<intf-ix-out> <intf-cid-out> <intf-ckt-type-out> } ] [ { TABLE_bfd [ <intf-bfd-ipv4-state-out> ] [
<intf-bfd-ipv6-state-out> ] } ] [ <intf-passive-mask-out> ] [ <intf-passive-mask-lvl-out> ] [ <intf-mgrp-set-out>
] [ <intf-mgrp-state-out> ] [ <intf-mgrp-id-out> ] [ <intf-p2p-type-out> ] [ { <intf-p2p-ext-local-cid-out>
<intf-p2p-cid-out> <intf-retx-intv-out> <intf-retx-throttle-out> } ] [ <intf-loopback-type-out> ] [ {
<intf-lsp-intv-out> <intf-mtu-out> [ <intf-hpad-state-out> } ] } ] [ { <intf-p2p-pad-ts-out> } ]
<intf-p2p-adj-count-out> <intf-p2p-adj-up-count-out> <intf-p2p-prio-out> <intf-p2p-hello-intv-out>
<intf-p2p-hello-multi-out> <intf-p2p-hello-next-out> [ { TABLE_p2p [ <intf-p2p-lvl-out> <intf-p2p-adj-lvl-out>
<intf-p2p-adj-up-lvl-out> <intf-p2p-metric-lvl-out> <intf-p2p-csnp-lvl-out> <intf-p2p-csnp-nxt-lvl-out>
<intf-p2p-lspid-last-lvl-out> } ] } ] [ { <intf-bcast-type-out> [ { TABLE_bcast_pad [ { <intf-bcast-lvl-out>
<intf-bcast-pad-ts-out> } ] } ] [ { TABLE_bcast_dis [ { <intf-bcast-lvl-dis-out> <intf-bcast-dis-ts-out> } ] } ]
] [ { TABLE_bcast_pkt [ <intf-bcast-lvl-info-out> <intf-bcast-lvl-metric-0-out> <intf-bcast-lvl-metric-2-out>
<intf-bcast-lvl-csnp-intv-out> <intf-bcast-lvl-csnp-next-out> <intf-bcast-lvl-iih-intv-out>
<intf-bcast-lvl-iih-multi-out> <intf-bcast-lvl-iih-next-out> } ] [ { TABLE_bcast_adj [ <intf-bcast-lvl-value-out>
<intf-bcast-lvl-adj-out> <intf-bcast-lvl-adj-up-out> <intf-bcast-lvl-prio-out> <intf-bcast-lvl-ctkid-out>
<intf-bcast-lvl-ctkid-ts-out> } ] } ] [ { TABLE_loopback [ <intf-loopback-lvl-out> <intf-loopback-lvl-metric-out>
} ] [ <intf-unknown-out> ] } ] } ] }
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information              |
| isis                  | Display IS-IS status and configuration       |
| <i>isis-tag</i>       | (Optional) Routing process tag               |
| vrf                   | (Optional) Display per-VRF information       |
| <i>vrf-name</i>       | (Optional) VRF name                          |
| <i>vrf-known-name</i> | (Optional) Known VRF name                    |
| all                   | (Optional) Display information for all VRFs  |
| brief                 | (Optional) Brief display of IS-IS interfaces |

|                                     |                                       |
|-------------------------------------|---------------------------------------|
| interface                           | Display IS-IS interface information   |
| level-1                             | (Optional) Display Level-1 interfaces |
| level-2                             | (Optional) Display level-2 interfaces |
| <i>interface</i>                    | (Optional) IS-IS interface            |
| <i>__readonly__</i>                 | (Optional)                            |
| TABLE_process_tag                   | (Optional)                            |
| <i>process-tag-out</i>              | (Optional)                            |
| TABLE_vrf                           | (Optional)                            |
| <i>vrf-name-out</i>                 | (Optional)                            |
| TABLE_interface                     | (Optional)                            |
| <i>intf-status-out</i>              | (Optional)                            |
| <i>intf-name-out</i>                | (Optional)                            |
| <i>intf-ix-out</i>                  | (Optional)                            |
| <i>intf-state-out</i>               | (Optional)                            |
| <i>intf-cid-out</i>                 | (Optional)                            |
| <i>intf-ckt-type-out</i>            | (Optional)                            |
| <i>intfb-name-out</i>               | (Optional)                            |
| <i>intfb-type-out</i>               | (Optional)                            |
| <i>intfb-ix-out</i>                 | (Optional)                            |
| <i>intfb-state-out</i>              | (Optional)                            |
| <i>intfb-ready-state-out</i>        | (Optional)                            |
| <i>intfb-cid-out</i>                | (Optional)                            |
| <i>intfb-ckt-type-out</i>           | (Optional)                            |
| <i>intf-p2p-metric-lvl-1-out</i>    | (Optional)                            |
| <i>intf-p2p-metric-lvl-2-out</i>    | (Optional)                            |
| <i>intf-p2p-prio-lvl-1-out</i>      | (Optional)                            |
| <i>intf-p2p-prio-lvl-2-out</i>      | (Optional)                            |
| <i>intf-p2p-adj-count-lvl-1-out</i> | (Optional)                            |
| <i>intf-p2p-adj-count-lvl-2-out</i> | (Optional)                            |

|   |            |
|---|------------|
| <i>intf-p2p-adj-up-count-lvl-1-out</i>      | (Optional) |
| <i>intf-p2p-adj-up-count-lvl-2-out</i>      | (Optional) |
| <i>intf-loopback-metric-lvl-1-out</i>       | (Optional) |
| <i>intf-loopback-metric-lvl-2-out</i>       | (Optional) |
| <i>intf-loopback-prio-lvl-1-out</i>         | (Optional) |
| <i>intf-loopback-prio-lvl-2-out</i>         | (Optional) |
| <i>intf-loopback-adj-count-lvl-1-out</i>    | (Optional) |
| <i>intf-loopback-adj-count-lvl-2-out</i>    | (Optional) |
| <i>intf-loopback-adj-up-count-lvl-1-out</i> | (Optional) |
| <i>intf-loopback-adj-up-count-lvl-2-out</i> | (Optional) |
| <i>intf-bcast-metric-lvl-1-out</i>          | (Optional) |
| <i>intf-bcast-metric-lvl-2-out</i>          | (Optional) |
| <i>intf-bcast-prio-lvl-1-out</i>            | (Optional) |
| <i>intf-bcast-prio-lvl-2-out</i>            | (Optional) |
| <i>intf-bcast-adj-count-lvl-1-out</i>       | (Optional) |
| <i>intf-bcast-adj-count-lvl-2-out</i>       | (Optional) |
| <i>intf-bcast-adj-up-count-lvl-1-out</i>    | (Optional) |
| <i>intf-bcast-adj-up-count-lvl-2-out</i>    | (Optional) |
| <i>intf-internal-state-out</i>              | (Optional) |
| <i>intf-cib-disabled-out</i>                | (Optional) |
| <i>intf-cid-invalid-out</i>                 | (Optional) |
| <i>intf-admin-group-out</i>                 | (Optional) |
| <i>intf-admin-group-stale-out</i>           | (Optional) |
| TABLE_auth                                  | (Optional) |
| <i>intf-auth-info-out</i>                   | (Optional) |
| <i>intf-auth-kchain-out</i>                 | (Optional) |
| <i>intf-auth-chk-info-out</i>               | (Optional) |
| TABLE_bfd                                   | (Optional) |
| <i>intf-bfd-ipv4-state-out</i>              | (Optional) |

|                                   |            |
|-----------------------------------|------------|
| <i>intf-bfd-ipv6-state-out</i>    | (Optional) |
| <i>intf-passive-mask-out</i>      | (Optional) |
| <i>intf-passive-mask-lvl-out</i>  | (Optional) |
| <i>intf-mgrp-set-out</i>          | (Optional) |
| <i>intf-mgrp-state-out</i>        | (Optional) |
| <i>intf-mgrp-id-out</i>           | (Optional) |
| <i>intf-p2p-type-out</i>          | (Optional) |
| <i>intf-p2p-ext-local-cid-out</i> | (Optional) |
| <i>intf-p2p-cid-out</i>           | (Optional) |
| <i>intf-retx-intv-out</i>         | (Optional) |
| <i>intf-retx-throttle-out</i>     | (Optional) |
| <i>intf-loopback-type-out</i>     | (Optional) |
| <i>intf-lsp-intv-out</i>          | (Optional) |
| <i>intf-mtu-out</i>               | (Optional) |
| <i>intfb-mtu-out</i>              | (Optional) |
| <i>intf-hpad-state-out</i>        | (Optional) |
| <i>intf-p2p-pad-ts-out</i>        | (Optional) |
| <i>intf-p2p-adj-count-out</i>     | (Optional) |
| <i>intf-p2p-adj-up-count-out</i>  | (Optional) |
| <i>intf-p2p-prio-out</i>          | (Optional) |
| <i>intf-p2p-hello-intv-out</i>    | (Optional) |
| <i>intf-p2p-hello-multi-out</i>   | (Optional) |
| <i>intf-p2p-hello-next-out</i>    | (Optional) |
| TABLE_p2p                         | (Optional) |
| <i>intf-p2p-lvl-out</i>           | (Optional) |
| <i>intf-p2p-adj-lvl-out</i>       | (Optional) |
| <i>intf-p2p-adj-up-lvl-out</i>    | (Optional) |
| <i>intf-p2p-metric-lvl-out</i>    | (Optional) |
| <i>intf-p2p-csnp-lvl-out</i>      | (Optional) |

|                                     |            |
|-------------------------------------|------------|
| <i>intf-p2p-csnp-nxt-lvl-out</i>    | (Optional) |
| <i>intf-p2p-lspid-last-lvl-out</i>  | (Optional) |
| <i>intf-bcast-type-out</i>          | (Optional) |
| TABLE_bcast_pad                     | (Optional) |
| <i>intf-bcast-lvl-out</i>           | (Optional) |
| <i>intf-bcast-pad-ts-out</i>        | (Optional) |
| TABLE_bcast_dis                     | (Optional) |
| <i>intf-bcast-lvl-dis-out</i>       | (Optional) |
| <i>intf-bcast-dis-ts-out</i>        | (Optional) |
| TABLE_bcast_pkt                     | (Optional) |
| <i>intf-bcast-lvl-info-out</i>      | (Optional) |
| <i>intf-bcast-lvl-metric-0-out</i>  | (Optional) |
| <i>intf-bcast-lvl-metric-2-out</i>  | (Optional) |
| <i>intf-bcast-lvl-csnp-intv-out</i> | (Optional) |
| <i>intf-bcast-lvl-csnp-next-out</i> | (Optional) |
| <i>intf-bcast-lvl-iih-intv-out</i>  | (Optional) |
| <i>intf-bcast-lvl-iih-multi-out</i> | (Optional) |
| <i>intf-bcast-lvl-iih-next-out</i>  | (Optional) |
| TABLE_bcast_adj                     | (Optional) |
| <i>intf-bcast-lvl-value-out</i>     | (Optional) |
| <i>intf-bcast-lvl-adj-out</i>       | (Optional) |
| <i>intf-bcast-lvl-adj-up-out</i>    | (Optional) |
| <i>intf-bcast-lvl-prio-out</i>      | (Optional) |
| <i>intf-bcast-lvl-ctid-out</i>      | (Optional) |
| <i>intf-bcast-lvl-ctid-ts-out</i>   | (Optional) |
| TABLE_loopback                      | (Optional) |
| <i>intf-loopback-lvl-out</i>        | (Optional) |
| <i>intf-loopback-lvl-metric-out</i> | (Optional) |
| <i>intf-unknown-out</i>             | (Optional) |

**Command Mode**

- /exec

# show isis ipv6 redistribute route

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ipv6 redistribute route [ topology { [
base ] | mt-ipv6 } ] [ summary | <ipv6-addr> | <ipv6-prefix> [ longer-prefixes [ summary ] ] ] [ direct-mask
] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out>
<redist-route-ipv6-vrf> [ <redist-route-ipv6-topo-id> ] [ <redist-route-ipv6-af-ix> ] [ { TABLE_one_route
<redist-route-ipv6-prefix> [ <redist-route-ipv6-mask-len> ] [ <redist-route-ipv6-pib-name> ] [
<redist-route-ipv6-direct-mask> ] [ <redist-route-ipv6-route-type> ] [ { TABLE_redist
<redist-route-ipv6-status> <redist-route-ipv6-level> [ <redist-route-ipv6-metric> ] [
<redist-route-ipv6-sum-addr-prefix> ] [ <redist-route-ipv6-sum-addr-mask-len> } } ] [
<redist-route-ipv6-summary-addr-prefix> ] [ <redist-route-ipv6-summary-addr-mask-len> ] [
<redist-route-ipv6-summary-route-total> ] [ { TABLE_protocol <redist-route-ipv6-summary-pib-name> [
<redist-route-ipv6-summary-prot-route-total> ] } ] [ <redist-route-ipv6-summary-pending-total> ] [ {
TABLE_mask_len <redist-route-ipv6-summary-mask-len-ix> [ <redist-route-ipv6-summary-mask-len> ] }
] ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                         |
| isis                  | Display IS-IS status and configuration                  |
| <i>isis-tag</i>       | (Optional) Routing process tag                          |
| vrf                   | (Optional) Display per-VRF information                  |
| <i>vrf-name</i>       | (Optional) VRF name                                     |
| <i>vrf-known-name</i> | (Optional) Known VRF name                               |
| all                   | (Optional) Display information for all VRFs             |
| redistribute          | Display IS-IS redistribute information                  |
| route                 | Display ISIS redistribute route                         |
| ipv6                  | Display IS-IS IPv6 information                          |
| topology              | (Optional) Display routes for a topology                |
| base                  | (Optional) Display routes for BASE topology             |
| mt-ipv6               | (Optional) Display routes for MT-IPV6-UNICAST topology  |
| longer-prefixes       | (Optional) Display exact match and more specific routes |
| summary               | (Optional) Display route counts                         |
| direct-mask           | (Optional) Display routes with direct-mask set          |
| __readonly__          | (Optional)  |
| TABLE_process_tag     | (Optional)  |

|   |            |
|---|------------|
| <i>process-tag-out</i>                            | (Optional) |
| <i>redist-route-ipv6-vrf</i>                      | (Optional) |
| <i>redist-route-ipv6-topo-id</i>                  | (Optional) |
| <i>redist-route-ipv6-af-ix</i>                    | (Optional) |
| TABLE_one_route                                   | (Optional) |
| <i>redist-route-ipv6-prefix</i>                   | (Optional) |
| <i>redist-route-ipv6-mask-len</i>                 | (Optional) |
| <i>redist-route-ipv6-pib-name</i>                 | (Optional) |
| <i>redist-route-ipv6-direct-mask</i>              | (Optional) |
| <i>redist-route-ipv6-route-type</i>               | (Optional) |
| TABLE_redist                                      | (Optional) |
| <i>redist-route-ipv6-status</i>                   | (Optional) |
| <i>redist-route-ipv6-level</i>                    | (Optional) |
| <i>redist-route-ipv6-metric</i>                   | (Optional) |
| <i>redist-route-ipv6-sum-addr-prefix</i>          | (Optional) |
| <i>redist-route-ipv6-sum-addr-mask-len</i>        | (Optional) |
| <i>redist-route-ipv6-summary-addr-prefix</i>      | (Optional) |
| <i>redist-route-ipv6-summary-addr-mask-len</i>    | (Optional) |
| <i>redist-route-ipv6-summary-route-total</i>      | (Optional) |
| TABLE_protocol                                    | (Optional) |
| <i>redist-route-ipv6-summary-pib-name</i>         | (Optional) |
| <i>redist-route-ipv6-summary-prot-route-total</i> | (Optional) |
| <i>redist-route-ipv6-summary-pending-total</i>    | (Optional) |
| TABLE_mask_len                                    | (Optional) |
| <i>redist-route-ipv6-summary-mask-len-ix</i>      | (Optional) |
| <i>redist-route-ipv6-summary-mask-len</i>         | (Optional) |

**Command Mode**

- /exec



## show isis ipv6 route

```

show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ipv6 route [ topology { [ base ] |
mt-ipv6 } ] [ summary | detail | private | <ipv6-addr> [ detail | private ] | <ipv6-prefix> [ detail | private |
longer-prefixes [ summary | detail | private ] ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
{ TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> [ <topo-id-out> ] <afi-safi-out> [
TABLE_prefix [ <route-prefix-out> <route-mask-len-out> <route-level-out> ] [ <route-summ-discard-addr-out>
<route-summ-discard-mask-len-out> ] [ <route-discard-addr-out> <route-discard-mask-len-out> ] [
<route-addr-print-out> <route-mask-len-print-out> <route-direct-print-out> ] [ TABLE_direct_path [
<route-direct-out> <route-direct-via-out> <route-direct-if-name-out> <route-direct-metric-out>
<route-direct-level-out> ] [ <route-direct-instance-out> ] ] [ TABLE_best_path [ <route-no-def-prefix-out>
] [ <route-def-prefix-out> ] <route-addr-valid-out> <route-marker-out> <route-ifname-out> <route-metric-out>
<route-pref-out> [ <route-instance-out> ] ] [ <route-discard-mask-out> ] [ [ <route-sum-prefix-out>
<route-sum-prefix-len-out> ] <route-total-out> <route-paths-total-out> <route-paths-best-out>
<route-paths-backup-out> [ TABLE_sum_best_route <route-sum-lvl-out> <route-sum-total-out> [
<route-sum-direct-out> ] [ <route-sum-normal-out> ] [ <route-sum-missing-out> ] ] [
<route-best-pend-num-out> ] <route-bestpaths-out> [ TABLE_sum_best_path <route-path-sum-lvl-out>
<route-path-sum-total-out> [ <route-path-sum-direct-out> ] [ <route-path-sum-normal-out> ] ]
<route-backuppaths-out> [ TABLE_sum_backup_path <backup-path-sum-lvl-out> <backup-path-sum-total-out>
[ <backup-path-sum-direct-out> ] [ <backup-path-sum-normal-out> ] ] <route-bestroutes-per-mask-out> [
TABLE_best_mask <route-best-mask-val-out> <route-best-mask-count-out> ] [ <route-pend-q-count-out> ]
] ] } } }

```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                         |
| isis                  | Display IS-IS status and configuration                  |
| <i>isis-tag</i>       | (Optional) Routing process tag                          |
| vrf                   | (Optional) Display per-VRF information                  |
| <i>vrf-name</i>       | (Optional) VRF name                                     |
| <i>vrf-known-name</i> | (Optional) Known VRF name                               |
| all                   | (Optional) Display information for all VRFs             |
| ipv6                  | Display IS-IS IPv6 information                          |
| route                 | Display IS-IS route information                         |
| topology              | (Optional) Display routes for a topology                |
| base                  | (Optional) Display routes for BASE topology             |
| mt-ipv6               | (Optional) Display routes for MT-IPV6-UNICAST topology  |
| longer-prefixes       | (Optional) Display exact match and more specific routes |
| summary               | (Optional) Display route counts                         |

|  |   |
|--|---|
| detail                                 | (Optional) Display detail route information |
| private                                | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| <u>__readonly__</u>                    | (Optional)                                  |
| TABLE_process_tag                      | (Optional)                                  |
| <i>process-tag-out</i>                 | (Optional)                                  |
| TABLE_vrf                              | (Optional)                                  |
| <i>vrf-name-out</i>                    | (Optional)                                  |
| <i>topo-id-out</i>                     | (Optional)                                  |
| <i>afi-safi-out</i>                    | (Optional)                                  |
| TABLE_prefix                           | (Optional)                                  |
| <i>route-prefix-out</i>                | (Optional)                                  |
| <i>route-mask-len-out</i>              | (Optional)                                  |
| <i>route-level-out</i>                 | (Optional)                                  |
| <i>route-summ-discard-addr-out</i>     | (Optional)                                  |
| <i>route-summ-discard-mask-len-out</i> | (Optional)                                  |
| <i>route-discard-addr-out</i>          | (Optional)                                  |
| <i>route-discard-mask-len-out</i>      | (Optional)                                  |
| <i>route-addr-print-out</i>            | (Optional)                                  |
| <i>route-mask-len-print-out</i>        | (Optional)                                  |
| <i>route-direct-print-out</i>          | (Optional)                                  |
| TABLE_direct_path                      | (Optional)                                  |
| <i>route-direct-out</i>                | (Optional)                                  |
| <i>route-direct-via-out</i>            | (Optional)                                  |
| <i>route-direct-if-name-out</i>        | (Optional)                                  |
| <i>route-direct-metric-out</i>         | (Optional)                                  |
| <i>route-direct-level-out</i>          | (Optional)                                  |
| <i>route-direct-instance-out</i>       | (Optional)                                  |
| TABLE_best_path                        | (Optional)                                  |
| <i>route-no-def-prefix-out</i>         | (Optional)                                  |

|                                  |            |
|----------------------------------|------------|
| <i>route-def-prefix-out</i>      | (Optional) |
| <i>route-addr-valid-out</i>      | (Optional) |
| <i>route-marker-out</i>          | (Optional) |
| <i>route-ifname-out</i>          | (Optional) |
| <i>route-metric-out</i>          | (Optional) |
| <i>route-pref-out</i>            | (Optional) |
| <i>route-instance-out</i>        | (Optional) |
| <i>route-discard-mask-out</i>    | (Optional) |
| <i>route-sum-prefix-out</i>      | (Optional) |
| <i>route-sum-prefix-len-out</i>  | (Optional) |
| <i>route-total-out</i>           | (Optional) |
| <i>route-paths-total-out</i>     | (Optional) |
| <i>route-paths-best-out</i>      | (Optional) |
| <i>route-paths-backup-out</i>    | (Optional) |
| TABLE_sum_best_route             | (Optional) |
| <i>route-sum-lvl-out</i>         | (Optional) |
| <i>route-sum-total-out</i>       | (Optional) |
| <i>route-sum-direct-out</i>      | (Optional) |
| <i>route-sum-normal-out</i>      | (Optional) |
| <i>route-sum-missing-out</i>     | (Optional) |
| <i>route-best-pend-num-out</i>   | (Optional) |
| <i>route-bestpaths-out</i>       | (Optional) |
| TABLE_sum_best_path              | (Optional) |
| <i>route-path-sum-lvl-out</i>    | (Optional) |
| <i>route-path-sum-total-out</i>  | (Optional) |
| <i>route-path-sum-direct-out</i> | (Optional) |
| <i>route-path-sum-normal-out</i> | (Optional) |
| <i>route-backuppaths-out</i>     | (Optional) |
| TABLE_sum_backup_path            | (Optional) |

|                                      |            |
|--------------------------------------|------------|
| <i>backup-path-sum-lvl-out</i>       | (Optional) |
| <i>backup-path-sum-total-out</i>     | (Optional) |
| <i>backup-path-sum-direct-out</i>    | (Optional) |
| <i>backup-path-sum-normal-out</i>    | (Optional) |
| <i>route-bestroutes-per-mask-out</i> | (Optional) |
| TABLE_best_mask                      | (Optional) |
| <i>route-best-mask-val-out</i>       | (Optional) |
| <i>route-best-mask-count-out</i>     | (Optional) |
| <i>route-pend-q-count-out</i>        | (Optional) |

**Command Mode**

- /exec

# show isis ipv6 summary-address

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ipv6 summary-address [ <ipv6-addr>
| <ipv6-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<vrf-name-out> <tag-out> <afi-safi-out> [ <addr-absent-out> ] [ { TABLE_addr <sum-prefix-out>
<mask-len-out> <level-out> [ { TABLE_lvl <addr-lvl-out> <addr-num-out> [ <addr-metric-absent-out> ] [
<addr-metric-out> ] [ <addr-route-count-out> ] } } ] ] ]
```

## Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information                                  |
| isis                   | Display IS-IS status and configuration                           |
| <i>isis-tag</i>        | (Optional) Routing process tag                                   |
| vrf                    | (Optional) Display per-VRF information                           |
| <i>vrf-name</i>        | (Optional) VRF name  |
| <i>vrf-known-name</i>  | (Optional) Known VRF name  |
| all                    | (Optional) Display information for all VRFs                      |
| ipv6                   | Display IS-IS IPv6 information                                   |
| summary-address        | Display IS-IS summary address                                    |
| longer-prefixes        | (Optional) Display exact match and more specific summary address |
| __readonly__           | (Optional)   |
| TABLE_vrf              | (Optional)   |
| <i>vrf-name-out</i>    | (Optional)   |
| <i>tag-out</i>         | (Optional)   |
| <i>afi-safi-out</i>    | (Optional)   |
| <i>addr-absent-out</i> | (Optional)   |
| TABLE_addr             | (Optional)   |
| <i>sum-prefix-out</i>  | (Optional)   |
| <i>mask-len-out</i>    | (Optional)   |
| <i>level-out</i>       | (Optional)   |
| TABLE_lvl              | (Optional)   |
| <i>addr-lvl-out</i>    | (Optional)   |
| <i>addr-num-out</i>    | (Optional)   |

|                               |            |
|-------------------------------|------------|
| <i>addr-metric-absent-out</i> | (Optional) |
| <i>addr-metric-out</i>        | (Optional) |
| <i>addr-route-count-out</i>   | (Optional) |

**Command Mode**

- /exec

# show isis lslib

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] lslib [ cache [ nodes | links | prefixes
| node <s0> | link <s1> | prefix <s2> | links-of-node <s3> | prefixes-of-node <s4> ] [ detail ] ] [ vrf { <vrf-name>
| <vrf-known-name> | all } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information               |
| isis                  | Display IS-IS status and configuration        |
| <i>isis-tag</i>       | (Optional) Routing process tag                |
| lslib                 | LSLIB client information                      |
| cache                 | (Optional) Link-state cache in LSLIB          |
| nodes                 | (Optional) All Node objects                   |
| links                 | (Optional) All Link objects                   |
| prefixes              | (Optional) All Prefix objects                 |
| node                  | (Optional) One node object information        |
| <i>s0</i>             | (Optional) Node information                   |
| link                  | (Optional) One link object information        |
| <i>s1</i>             | (Optional) Link information                   |
| prefix                | (Optional) One prefix object information      |
| <i>s2</i>             | (Optional) Prefix information                 |
| links-of-node         | (Optional) All links information of a node    |
| <i>s3</i>             | (Optional) Node information                   |
| prefixes-of-node      | (Optional) All prefixes information of a node |
| <i>s4</i>             | (Optional) Node information                   |
| detail                | (Optional) Detailed info                      |
| vrf                   | (Optional) Display per-VRF information        |
| <i>vrf-name</i>       | (Optional) VRF name                           |
| <i>vrf-known-name</i> | (Optional) Known VRF name                     |
| all                   | (Optional) Display information for all VRFs   |

## Command Mode

- /exec



# show isis mesh-group

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] mesh-group [ <mesh-id> ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <vrf-name-out> <tag-out> [
<mesh-id-set-out> ] [ <mesh-id-invalid-out> ] [ <mesh-id-none-out> ] [ { TABLE_meshid <mesh-set-id-out>
[ { TABLE_if <mesh-id-intf-name-out> } } ] ] ]
```

## Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information             |
| isis                         | Display IS-IS status and configuration      |
| <i>isis-tag</i>              | (Optional) Routing process tag              |
| vrf                          | (Optional) Display per-VRF information      |
| <i>vrf-name</i>              | (Optional) VRF name                         |
| <i>vrf-known-name</i>        | (Optional) Known VRF name                   |
| all                          | (Optional) Display information for all VRFs |
| mesh-group                   | Display IS-IS mesh-groups                   |
| <i>mesh-id</i>               | (Optional) Display a single mesh-group      |
| <i>__readonly__</i>          | (Optional)                                  |
| TABLE_vrf                    | (Optional)                                  |
| <i>vrf-name-out</i>          | (Optional)                                  |
| <i>tag-out</i>               | (Optional)                                  |
| <i>mesh-id-set-out</i>       | (Optional)                                  |
| <i>mesh-id-invalid-out</i>   | (Optional)                                  |
| <i>mesh-id-none-out</i>      | (Optional)                                  |
| TABLE_meshid                 | (Optional)                                  |
| <i>mesh-set-id-out</i>       | (Optional)                                  |
| TABLE_if                     | (Optional)                                  |
| <i>mesh-id-intf-name-out</i> | (Optional)                                  |

## Command Mode

- /exec

## show isis redistribute route

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] redistribute route [ summary |
<ip-addr> | <ip-prefix> [ longer-prefixes [ summary ] ] ] [ direct-mask ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <redist-route-vrf> [ <redist-route-af-ix> ] [
{ TABLE_one_route <redist-route-prefix> [ <redist-route-mask-len> ] [ <redist-route-pib-name> ] [
<redist-route-direct-mask> ] [ <redist-route-route-type> ] [ { TABLE_redist <redist-route-status>
<redist-route-level> [ <redist-route-metric> ] [ <redist-route-sum-addr-prefix> ] [
<redist-route-sum-addr-mask-len> ] } } ] [ <redist-route-summary-addr-prefix> ] [
<redist-route-summary-addr-mask-len> ] [ <redist-route-summary-route-total> ] [ { TABLE_protocol
<redist-route-summary-pib-name> [ <redist-route-summary-prot-route-total> ] } ] [
<redist-route-summary-pending-total> ] [ { TABLE_mask_len <redist-route-summary-mask-len-ix> [
<redist-route-summary-mask-len> ] } ] ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                             |
| isis                    | Display IS-IS status and configuration                      |
| <i>isis-tag</i>         | (Optional) Routing process tag                              |
| vrf                     | (Optional) Display per-VRF information                      |
| <i>vrf-name</i>         | (Optional) VRF name   |
| <i>vrf-known-name</i>   | (Optional) Known VRF name                                   |
| all                     | (Optional) Display information for all VRFs                 |
| redistribute            | Display IS-IS redistribute information                      |
| route                   | Display ISIS redistribute route                             |
| ip                      | (Optional) Display IS-IS IPv4 information                   |
| <i>ip-addr</i>          | (Optional) Display single IP redistribute route             |
| <i>ip-prefix</i>        | (Optional) Display single exact match IP redistribute route |
| longer-prefixes         | (Optional) Display exact match and more specific routes     |
| summary                 | (Optional) Display route counts                             |
| direct-mask             | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                   |
| <i>__readonly__</i>     | (Optional)  |
| TABLE_process_tag       | (Optional)  |
| <i>process-tag-out</i>  | (Optional)  |
| <i>redist-route-vrf</i> | (Optional)  |

|  |            |
|--|------------|
| <i>redist-route-af-ix</i>                    | (Optional) |
| TABLE_one_route                              | (Optional) |
| <i>redist-route-prefix</i>                   | (Optional) |
| <i>redist-route-mask-len</i>                 | (Optional) |
| <i>redist-route-pib-name</i>                 | (Optional) |
| <i>redist-route-direct-mask</i>              | (Optional) |
| <i>redist-route-route-type</i>               | (Optional) |
| TABLE_redist                                 | (Optional) |
| <i>redist-route-status</i>                   | (Optional) |
| <i>redist-route-level</i>                    | (Optional) |
| <i>redist-route-metric</i>                   | (Optional) |
| <i>redist-route-sum-addr-prefix</i>          | (Optional) |
| <i>redist-route-sum-addr-mask-len</i>        | (Optional) |
| <i>redist-route-summary-addr-prefix</i>      | (Optional) |
| <i>redist-route-summary-addr-mask-len</i>    | (Optional) |
| <i>redist-route-summary-route-total</i>      | (Optional) |
| TABLE_protocol                               | (Optional) |
| <i>redist-route-summary-pib-name</i>         | (Optional) |
| <i>redist-route-summary-prot-route-total</i> | (Optional) |
| <i>redist-route-summary-pending-total</i>    | (Optional) |
| TABLE_mask_len                               | (Optional) |
| <i>redist-route-summary-mask-len-ix</i>      | (Optional) |
| <i>redist-route-summary-mask-len</i>         | (Optional) |

### Command Mode

- /exec

## show isis route

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] route [ summary | detail | private
| <ip-addr> [ detail | private ] | <ip-prefix> [ detail | private | longer-prefixes [ summary | detail | private ] ] ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> {
TABLE_vrf <vrf-name-out> <afi-safi-out> [ TABLE_prefix [ <route-prefix-out> <route-mask-len-out>
<route-level-out> ] [ <route-summ-discard-addr-out> <route-summ-discard-mask-len-out> ] [
<route-discard-addr-out> <route-discard-mask-len-out> ] [ <route-addr-print-out> <route-mask-len-print-out>
<route-direct-print-out> ] [ TABLE_direct_path [ <route-direct-out> <route-direct-via-out>
<route-direct-if-name-out> <route-direct-metric-out> <route-direct-level-out> ] [ <route-direct-instance-out>
] ] [ TABLE_best_path [ <route-no-def-prefix-out> ] [ <route-def-prefix-out> ] <route-addr-valid-out>
<route-marker-out> <route-iframe-out> <route-metric-out> <route-pref-out> [ <route-instance-out> ] ] [
<route-discard-mask-out> ] [ [ <route-sum-prefix-out> <route-sum-prefix-len-out> ] <route-total-out>
<route-paths-total-out> <route-paths-best-out> <route-paths-backup-out> [ TABLE_sum_best_route
<route-sum-lvl-out> <route-sum-total-out> [ <route-sum-direct-out> ] [ <route-sum-normal-out> ] [
<route-sum-missing-out> ] ] [ <route-best-pend-num-out> ] <route-bestpaths-out> [ TABLE_sum_best_path
<route-path-sum-lvl-out> <route-path-sum-total-out> [ <route-path-sum-direct-out> ] [
<route-path-sum-normal-out> ] ] <route-backuppaths-out> [ TABLE_sum_backup_path
<backup-path-sum-lvl-out> <backup-path-sum-total-out> [ <backup-path-sum-direct-out> ] [
<backup-path-sum-normal-out> ] ] <route-bestroutes-per-mask-out> [ TABLE_best_mask
<route-best-mask-val-out> <route-best-mask-count-out> ] [ <route-pend-q-count-out> ] ] ] } }
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                         |
| isis                  | Display IS-IS status and configuration                  |
| <i>isis-tag</i>       | (Optional) Routing process tag                          |
| vrf                   | (Optional) Display per-VRF information                  |
| <i>vrf-name</i>       | (Optional) VRF name                                     |
| <i>vrf-known-name</i> | (Optional) Known VRF name                               |
| all                   | (Optional) Display information for all VRFs             |
| ip                    | (Optional) Display IS-IS IPv4 information               |
| route                 | Display IS-IS route information                         |
| <i>ip-addr</i>        | (Optional) Display single IP route                      |
| <i>ip-prefix</i>      | (Optional) Display single exact match IP route          |
| longer-prefixes       | (Optional) Display exact match and more specific routes |
| summary               | (Optional) Display route counts                         |
| detail                | (Optional) Display detail route information             |
| private               | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED               |

|  |            |
|--|------------|
| <code>__readonly__</code>                    | (Optional) |
| <code>TABLE_process_tag</code>               | (Optional) |
| <code>process-tag-out</code>                 | (Optional) |
| <code>TABLE_vrf</code>                       | (Optional) |
| <code>vrf-name-out</code>                    | (Optional) |
| <code>afi-safi-out</code>                    | (Optional) |
| <code>TABLE_prefix</code>                    | (Optional) |
| <code>route-prefix-out</code>                | (Optional) |
| <code>route-mask-len-out</code>              | (Optional) |
| <code>route-level-out</code>                 | (Optional) |
| <code>route-summ-discard-addr-out</code>     | (Optional) |
| <code>route-summ-discard-mask-len-out</code> | (Optional) |
| <code>route-discard-addr-out</code>          | (Optional) |
| <code>route-discard-mask-len-out</code>      | (Optional) |
| <code>route-addr-print-out</code>            | (Optional) |
| <code>route-mask-len-print-out</code>        | (Optional) |
| <code>route-direct-print-out</code>          | (Optional) |
| <code>TABLE_direct_path</code>               | (Optional) |
| <code>route-direct-out</code>                | (Optional) |
| <code>route-direct-via-out</code>            | (Optional) |
| <code>route-direct-if-name-out</code>        | (Optional) |
| <code>route-direct-metric-out</code>         | (Optional) |
| <code>route-direct-level-out</code>          | (Optional) |
| <code>route-direct-instance-out</code>       | (Optional) |
| <code>TABLE_best_path</code>                 | (Optional) |
| <code>route-no-def-prefix-out</code>         | (Optional) |
| <code>route-def-prefix-out</code>            | (Optional) |
| <code>route-addr-valid-out</code>            | (Optional) |
| <code>route-marker-out</code>                | (Optional) |

|                                   |            |
|-----------------------------------|------------|
| <i>route-ifname-out</i>           | (Optional) |
| <i>route-metric-out</i>           | (Optional) |
| <i>route-pref-out</i>             | (Optional) |
| <i>route-instance-out</i>         | (Optional) |
| <i>route-discard-mask-out</i>     | (Optional) |
| <i>route-sum-prefix-out</i>       | (Optional) |
| <i>route-sum-prefix-len-out</i>   | (Optional) |
| <i>route-total-out</i>            | (Optional) |
| <i>route-paths-total-out</i>      | (Optional) |
| <i>route-paths-best-out</i>       | (Optional) |
| <i>route-paths-backup-out</i>     | (Optional) |
| TABLE_sum_best_route              | (Optional) |
| <i>route-sum-lvl-out</i>          | (Optional) |
| <i>route-sum-total-out</i>        | (Optional) |
| <i>route-sum-direct-out</i>       | (Optional) |
| <i>route-sum-normal-out</i>       | (Optional) |
| <i>route-sum-missing-out</i>      | (Optional) |
| <i>route-best-pend-num-out</i>    | (Optional) |
| <i>route-bestpaths-out</i>        | (Optional) |
| TABLE_sum_best_path               | (Optional) |
| <i>route-path-sum-lvl-out</i>     | (Optional) |
| <i>route-path-sum-total-out</i>   | (Optional) |
| <i>route-path-sum-direct-out</i>  | (Optional) |
| <i>route-path-sum-normal-out</i>  | (Optional) |
| <i>route-backuppaths-out</i>      | (Optional) |
| TABLE_sum_backup_path             | (Optional) |
| <i>backup-path-sum-lvl-out</i>    | (Optional) |
| <i>backup-path-sum-total-out</i>  | (Optional) |
| <i>backup-path-sum-direct-out</i> | (Optional) |

|                                      |            |
|--------------------------------------|------------|
| <i>backup-path-sum-normal-out</i>    | (Optional) |
| <i>route-bestroutes-per-mask-out</i> | (Optional) |
| TABLE_best_mask                      | (Optional) |
| <i>route-best-mask-val-out</i>       | (Optional) |
| <i>route-best-mask-count-out</i>     | (Optional) |
| <i>route-pend-q-count-out</i>        | (Optional) |

**Command Mode**

- /exec

## show isis rrm

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] rrm <interface> [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <rrm-if-name> [ {
TABLE_rrm <rrm-level> <rrm-retx-interval> <rrm-retx-throttle-interval> <rrm-retx-queue-length>
<rrm-next-retx> <rrm-retx-queue-hwm> <rrm-retx-queue-limit> <rrm-retx-queue-exceed> <rrm-dbase-hdr>
[ <rrm-timestamp> ] [ <rrm-lsp-retx-instance> ] [ <rrm-lsp-db-instance> ] [ <rrm-rrm-set> ] [ <rrm-srm-set>
] } } ] ]
```

### Syntax Description

|                                   |  |
|-----------------------------------|--|
| show                              | Show running system information                      |
| isis                              | Display IS-IS status and configuration               |
| <i>isis-tag</i>                   | (Optional) Routing process tag                       |
| vrf                               | (Optional) Display per-VRF information               |
| <i>vrf-name</i>                   | (Optional) VRF name                                  |
| <i>vrf-known-name</i>             | (Optional) Known VRF name                            |
| all                               | (Optional) Display information for all VRFs          |
| rrm                               | Display IS-IS Retransmit-Routing-Message information |
| <i>interface</i>                  | IS-IS interface                                      |
| __readonly__                      | (Optional)   |
| TABLE_process_tag                 | (Optional)   |
| <i>process-tag-out</i>            | (Optional)   |
| <i>rrm-if-name</i>                | (Optional)   |
| TABLE_rrm                         | (Optional)   |
| <i>rrm-level</i>                  | (Optional)   |
| <i>rrm-retx-interval</i>          | (Optional)   |
| <i>rrm-retx-throttle-interval</i> | (Optional)   |
| <i>rrm-retx-queue-length</i>      | (Optional)   |
| <i>rrm-next-retx</i>              | (Optional)   |
| <i>rrm-retx-queue-hwm</i>         | (Optional)   |
| <i>rrm-retx-queue-limit</i>       | (Optional)   |
| <i>rrm-retx-queue-exceed</i>      | (Optional)   |



|                              |            |
|------------------------------|------------|
| <i>rrm-dbase-hdr</i>         | (Optional) |
| <i>rrm-timestamp</i>         | (Optional) |
| <i>rrm-lsp-retx-instance</i> | (Optional) |
| <i>rrm-lsp-db-instance</i>   | (Optional) |
| <i>rrm-rrm-set</i>           | (Optional) |
| <i>rrm-srm-set</i>           | (Optional) |

**Command Mode**

- /exec

## show isis segment-routing mapcache

```
show isis [ <isis-tag> ] segment-routing mapcache [ level-1 | level-2 ] [ <ipv4-prefix> ] [ sid <sr-sid> ] [ vrf
{ <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> {
TABLE_vrf <vrf-name-out> <srmap-v4-state> <srmap-v6-state> [ { TABLE_srmap_level <srmap-level> [
{ TABLE_srmap_pfxsid <srmap-pfxsid> <srmap-lsp-id> <srmap-pfxsid-valid> <srmap-pfxsid-flags>
<srmap-prefix> } ] } ] } ] }
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information                   |
| isis                   | Display IS-IS status and configuration            |
| <i>isis-tag</i>        | (Optional) Routing process tag                    |
| segment-routing        | show segment-routing information                  |
| mapcache               | prefix-sid mappings                               |
| level-1                | (Optional) show information for level 1 only      |
| level-2                | (Optional) show information for level 2 only      |
| <i>ipv4-prefix</i>     | (Optional) Display single exact match IP route    |
| sid                    | (Optional) show information for this SR SID value |
| <i>sr-sid</i>          | (Optional) SR SID value                           |
| vrf                    | (Optional) Display per-VRF information            |
| <i>vrf-name</i>        | (Optional) VRF name                               |
| <i>vrf-known-name</i>  | (Optional) Known VRF name                         |
| all                    | (Optional) Display information for all VRFs       |
| __readonly__           | (Optional)  |
| TABLE_process_tag      | (Optional)  |
| <i>process-tag-out</i> | (Optional)  |
| TABLE_vrf              | (Optional)  |
| <i>vrf-name-out</i>    | (Optional)  |
| <i>srmap-v4-state</i>  | (Optional)  |
| <i>srmap-v6-state</i>  | (Optional)  |
| TABLE_srmap_level      | (Optional)  |
| <i>srmap-level</i>     | (Optional)  |

|                           |            |
|---------------------------|------------|
| TABLE_srmap_pfxsid        | (Optional) |
| <i>srmap-pfxsid</i>       | (Optional) |
| <i>srmap-lsp-id</i>       | (Optional) |
| <i>srmap-pfxsid-valid</i> | (Optional) |
| <i>srmap-pfxsid-flags</i> | (Optional) |
| <i>srmap-prefix</i>       | (Optional) |

**Command Mode**

- /exec

## show isis segment-routing remote-srgb

```
show isis [ <isis-tag> ] segment-routing remote-srgb [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ { TABLE_process_tag <process-tag-out> { TABLE_vrf <vrf-name-out> <sr-v4-state>
<sr-v6-state> [ { TABLE_srgb_lsp <srgb-level> <srgb-lspid> <srgb-num-entries> <srgb-flags> [ {
TABLE_srgb_label <srgb-start-label> <srgb-range> } ] } ] } ] }
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information             |
| isis                    | Display IS-IS status and configuration      |
| <i>isis-tag</i>         | (Optional) Routing process tag              |
| segment-routing         | show segment-routing information            |
| remote-srgb             | remote SR ranges                            |
| vrf                     | (Optional) Display per-VRF information      |
| <i>vrf-name</i>         | (Optional) VRF name                         |
| <i>vrf-known-name</i>   | (Optional) Known VRF name                   |
| all                     | (Optional) Display information for all VRFs |
| __readonly__            | (Optional)                                  |
| TABLE_process_tag       | (Optional)                                  |
| <i>process-tag-out</i>  | (Optional)                                  |
| TABLE_vrf               | (Optional)                                  |
| <i>vrf-name-out</i>     | (Optional)                                  |
| <i>sr-v4-state</i>      | (Optional)                                  |
| <i>sr-v6-state</i>      | (Optional)                                  |
| TABLE_srgb_lsp          | (Optional)                                  |
| <i>srgb-level</i>       | (Optional)                                  |
| <i>srgb-lspid</i>       | (Optional)                                  |
| <i>srgb-num-entries</i> | (Optional)                                  |
| <i>srgb-flags</i>       | (Optional)                                  |
| TABLE_srgb_label        | (Optional)                                  |
| <i>srgb-start-label</i> | (Optional)                                  |

|                   |            |
|-------------------|------------|
| <i>srgb-range</i> | (Optional) |
|-------------------|------------|

**Command Mode**

- /exec

# show isis segment-routing sids

```
show isis [ <isis-tag> ] segment-routing sids [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
{ TABLE_process_tag <process-tag-out> <vrf-name-out> [ { TABLE_sr_sids <sr-sid> [ <sr-prefix> ] [
<sr-local-flag> ] [ <sr-conflict-flag> ] } } ] ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information             |
| isis                    | Display IS-IS status and configuration      |
| <i>isis-tag</i>         | (Optional) Routing process tag              |
| segment-routing         | show segment-routing information            |
| sids                    | sid database                                |
| vrf                     | (Optional) Display per-VRF information      |
| <i>vrf-name</i>         | (Optional) VRF name                         |
| <i>vrf-known-name</i>   | (Optional) Known VRF name                   |
| all                     | (Optional) Display information for all VRFs |
| __readonly__            | (Optional)                                  |
| TABLE_process_tag       | (Optional)                                  |
| <i>process-tag-out</i>  | (Optional)                                  |
| <i>vrf-name-out</i>     | (Optional)                                  |
| TABLE_sr_sids           | (Optional)                                  |
| <i>sr-sid</i>           | (Optional)                                  |
| <i>sr-prefix</i>        | (Optional)                                  |
| <i>sr-local-flag</i>    | (Optional)                                  |
| <i>sr-conflict-flag</i> | (Optional)                                  |

## Command Mode

- /exec

## show isis spf-log

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] spf-log [ detail ] [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ [ { TABLE_process_tag [ <process-tag-out> ] [ <vrf-name-out>
] [ { TABLE_topo [ <topo-id-out> ] [ <spflog-calc-out> ] [ <spflog-size-out> ] [ <spflog-maxsize-out> ] [ {
TABLE_log_detail [ <num-out> ] [ <ts-out> ] [ <date-out> ] [ { TABLE_lvl_detail [ <lvlid-out> ] [
<instance-out> ] [ <init-ts-out> ] [ <ts-lvl-out> ] } ] [ <ts-is-out> ] [ <ts-urib-out> ] [ <ts-elapsed-out> ] [ {
TABLE_lvl_second [ <lvls-out> ] [ <spf-node-out> ] [ <spf-cnt-out> ] [ <changed-cnt-out> ] [ <spf-reason-out>
] } ] } ] [ { TABLE_log_brief [ <ago-time-out> ] [ { TABLE_lvl [ <lvl-out> ] [ <reason-out> ] [ <count-out>
] } ] [ <elapsed-ts-out> ] } ] } ] }
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                |
| isis                      | Display IS-IS status and configuration         |
| <i>isis-tag</i>           | (Optional) Routing process tag                 |
| vrf                       | (Optional) Display per-VRF information         |
| <i>vrf-name</i>           | (Optional) VRF name                            |
| <i>vrf-known-name</i>     | (Optional) Known VRF name                      |
| all                       | (Optional) Display information for all VRFs    |
| spf-log                   | Display IS-IS SPF information                  |
| detail                    | (Optional) Display detail ISIS SPF information |
| __readonly__              | (Optional)                                     |
| TABLE_process_tag         | (Optional)                                     |
| <i>process-tag-out</i>    | (Optional)                                     |
| <i>vrf-name-out</i>       | (Optional)                                     |
| TABLE_topo                | (Optional)                                     |
| <i>topo-id-out</i>        | (Optional)                                     |
| <i>spflog-calc-out</i>    | (Optional)                                     |
| <i>spflog-size-out</i>    | (Optional)                                     |
| <i>spflog-maxsize-out</i> | (Optional)                                     |
| TABLE_log_detail          | (Optional)                                     |
| <i>num-out</i>            | (Optional)                                     |
| <i>ts-out</i>             | (Optional)                                     |

|                        |            |
|------------------------|------------|
| <i>date-out</i>        | (Optional) |
| TABLE_lvl_detail       | (Optional) |
| <i>lvld-out</i>        | (Optional) |
| <i>instance-out</i>    | (Optional) |
| <i>init-ts-out</i>     | (Optional) |
| <i>ts-lvl-out</i>      | (Optional) |
| <i>ts-is-out</i>       | (Optional) |
| <i>ts-urib-out</i>     | (Optional) |
| <i>ts-elapsed-out</i>  | (Optional) |
| TABLE_lvl_second       | (Optional) |
| <i>lvls-out</i>        | (Optional) |
| <i>spf-node-out</i>    | (Optional) |
| <i>spf-cnt-out</i>     | (Optional) |
| <i>changed-cnt-out</i> | (Optional) |
| <i>spf-reason-out</i>  | (Optional) |
| TABLE_log_brief        | (Optional) |
| <i>ago-time-out</i>    | (Optional) |
| TABLE_lvl              | (Optional) |
| <i>lvl-out</i>         | (Optional) |
| <i>reason-out</i>      | (Optional) |
| <i>count-out</i>       | (Optional) |
| <i>elapsed-ts-out</i>  | (Optional) |

**Command Mode**

- /exec



# show isis srm

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] srm <interface> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <srm-if-name> [ { TABLE_srm <srm-level> <srm-if-eligible> <srm-if-not-on-srm-list> <srm-lsp-interval> <srm-next-lsp> <srm-dbase-hdr> } ] } ]
```

## Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information                |
| isis                          | Display IS-IS status and configuration         |
| <i>isis-tag</i>               | (Optional) Routing process tag                 |
| vrf                           | (Optional) Display per-VRF information         |
| <i>vrf-name</i>               | (Optional) VRF name                            |
| <i>vrf-known-name</i>         | (Optional) Known VRF name                      |
| all                           | (Optional) Display information for all VRFs    |
| srm                           | Display IS-IS Send-Routing-Message information |
| <i>interface</i>              | IS-IS interface                                |
| <i>__readonly__</i>           | (Optional)                                     |
| TABLE_process_tag             | (Optional)                                     |
| <i>process-tag-out</i>        | (Optional)                                     |
| <i>srm-if-name</i>            | (Optional)                                     |
| TABLE_srm                     | (Optional)                                     |
| <i>srm-level</i>              | (Optional)                                     |
| <i>srm-if-eligible</i>        | (Optional)                                     |
| <i>srm-if-not-on-srm-list</i> | (Optional)                                     |
| <i>srm-lsp-interval</i>       | (Optional)                                     |
| <i>srm-next-lsp</i>           | (Optional)                                     |
| <i>srm-dbase-hdr</i>          | (Optional)                                     |

## Command Mode

- /exec

# show isis ssn

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ssn <interface> [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out> <snn-if-name> [ { TABLE_ssn <snn-level> <snn-psnp-eligible> <snn-next-psnp> <snn-dbase_hdr> } ] } ]
```

## Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information                |
| isis                     | Display IS-IS status and configuration         |
| <i>isis-tag</i>          | (Optional) Routing process tag                 |
| vrf                      | (Optional) Display per-VRF information         |
| <i>vrf-name</i>          | (Optional) VRF name                            |
| <i>vrf-known-name</i>    | (Optional) Known VRF name                      |
| all                      | (Optional) Display information for all VRFs    |
| ssn                      | Display IS-IS Send-Sequence-Number information |
| <i>interface</i>         | IS-IS interface                                |
| __readonly__             | (Optional)                                     |
| TABLE_process_tag        | (Optional)                                     |
| <i>process-tag-out</i>   | (Optional)                                     |
| <i>snn-if-name</i>       | (Optional)                                     |
| TABLE_ssn                | (Optional)                                     |
| <i>snn-level</i>         | (Optional)                                     |
| <i>snn-psnp-eligible</i> | (Optional)                                     |
| <i>snn-next-psnp</i>     | (Optional)                                     |
| <i>snn-dbase_hdr</i>     | (Optional)                                     |

## Command Mode

- /exec

## show isis statistics

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] statistics [ <interface> ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ { TABLE_interface_set [ <stat-if-out> ] [
<process-tag-out> ] [ <vrf-name-out> ] [ <stat-if-name-out> ] [ <stat-spf-calc-out> ] [ <stat-lsp-sourced-out>
] [ <stat-lsp-refresh-out> ] [ <stat-lsp-purge-out> ] [ <stat-dis-elections-out> } } ] ]
```

### Syntax Description

|                               |   |
|-------------------------------|---|
| show                          | Show running system information             |
| isis                          | Display IS-IS status and configuration      |
| <i>isis-tag</i>               | (Optional) Routing process tag              |
| vrf                           | (Optional) Display per-VRF information      |
| <i>vrf-name</i>               | (Optional) VRF name                         |
| <i>vrf-known-name</i>         | (Optional) Known VRF name                   |
| all                           | (Optional) Display information for all VRFs |
| statistics                    | Display IS-IS protocol statistics           |
| <i>interface</i>              | (Optional) IS-IS interface                  |
| <i>__readonly__</i>           | (Optional)                                  |
| TABLE_interface_set           | (Optional)                                  |
| <i>stat-if-out</i>            | (Optional)                                  |
| <i>process-tag-out</i>        | (Optional)                                  |
| <i>vrf-name-out</i>           | (Optional)                                  |
| <i>stat-if-name-out</i>       | (Optional)                                  |
| <i>stat-spf-calc-out</i>      | (Optional)                                  |
| <i>stat-lsp-sourced-out</i>   | (Optional)                                  |
| <i>stat-lsp-refresh-out</i>   | (Optional)                                  |
| <i>stat-lsp-purge-out</i>     | (Optional)                                  |
| <i>stat-dis-elections-out</i> | (Optional)                                  |

### Command Mode

- /exec

## show isis summary-address

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] summary-address [ <ip-addr> |
<ip-prefix> [ longer-prefixes ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<vrf-name-out> <tag-out> <afi-safi-out> [ <addr-absent-out> ] [ { TABLE_addr <sum-prefix-out>
<mask-len-out> <level-out> [ { TABLE_lvl <addr-lvl-out> <addr-num-out> [ <addr-metric-absent-out> ] [
<addr-metric-out> ] [ <addr-route-count-out> } } ] ] ] ]
```

### Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information                                  |
| isis                   | Display IS-IS status and configuration                           |
| <i>isis-tag</i>        | (Optional) Routing process tag                                   |
| vrf                    | (Optional) Display per-VRF information                           |
| <i>vrf-name</i>        | (Optional) VRF name  |
| <i>vrf-known-name</i>  | (Optional) Known VRF name  |
| all                    | (Optional) Display information for all VRFs                      |
| ip                     | (Optional) Display IS-IS IPv4 information                        |
| summary-address        | Display IS-IS summary address                                    |
| <i>ip-addr</i>         | (Optional) Display single IP summary address                     |
| <i>ip-prefix</i>       | (Optional) Display single exact match IP summary address         |
| longer-prefixes        | (Optional) Display exact match and more specific summary address |
| <u>__readonly__</u>    | (Optional)   |
| TABLE_vrf              | (Optional)   |
| <i>vrf-name-out</i>    | (Optional)   |
| <i>tag-out</i>         | (Optional)   |
| <i>afi-safi-out</i>    | (Optional)   |
| <i>addr-absent-out</i> | (Optional)   |
| TABLE_addr             | (Optional)   |
| <i>sum-prefix-out</i>  | (Optional)   |
| <i>mask-len-out</i>    | (Optional)   |
| <i>level-out</i>       | (Optional)   |
| TABLE_lvl              | (Optional)   |

|                               |            |
|-------------------------------|------------|
| <i>addr-lvl-out</i>           | (Optional) |
| <i>addr-num-out</i>           | (Optional) |
| <i>addr-metric-absent-out</i> | (Optional) |
| <i>addr-metric-out</i>        | (Optional) |
| <i>addr-route-count-out</i>   | (Optional) |

**Command Mode**

- /exec

## show isis topology

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] topology [ base | mt-ipv6 ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <topology-vrf>
<topo-id-out> [ { TABLE_LEVEL <topology-level> [ { TABLE_ONE_ROUTE
<topology-one-route-node-name> [ <topology-one-route-spf-instance> ] [ <topology-one-route-on-path> ] [
<topology-one-route-mt-id> ] [ { TABLE_ONE_ROUTE_NH <topology-one-route-nh-system-name> [
<topology-one-route-nh-if-name> ] [ <topology-one-route-nh-metric> ] } ] [ { TABLE_ONE_ROUTE_MBEST
<topology-one-route-mbest-system-name> [ <topology-one-route-mbest-if-name> ] [
<topology-one-route-mbest-metric> ] } ] } ] [ <topology-default-spf-instance> ] [ { TABLE_NH
<topology-nh-system-name> [ <topology-nh-if-name> ] [ <topology-nh-metric> ] } ] [ { TABLE_MBEST
<topology-mbest-system-name> [ <topology-mbest-if-name> ] [ <topology-mbest-metric> ] } ] } ] }
```

### Syntax Description

|  |  |
|--|--|
| show                                   | Show running system information                        |
| isis                                   | Display IS-IS status and configuration                 |
| <i>isis-tag</i>                        | (Optional) Routing process tag                         |
| topology                               | Display IS-IS Topology information                     |
| base                                   | (Optional) Display routes for BASE topology            |
| mt-ipv6                                | (Optional) Display routes for MT-IPV6-UNICAST topology |
| vrf                                    | (Optional) Display per-VRF information                 |
| <i>vrf-name</i>                        | (Optional) VRF name                                    |
| <i>vrf-known-name</i>                  | (Optional) Known VRF name                              |
| all                                    | (Optional) Display information for all VRFs            |
| <code>__readonly__</code>              | (Optional)   |
| TABLE_process_tag                      | (Optional)   |
| <i>process-tag-out</i>                 | (Optional)   |
| <i>topology-vrf</i>                    | (Optional)   |
| <i>topo-id-out</i>                     | (Optional)   |
| TABLE_LEVEL                            | (Optional)   |
| <i>topology-level</i>                  | (Optional)   |
| TABLE_ONE_ROUTE                        | (Optional)   |
| <i>topology-one-route-node-name</i>    | (Optional)   |
| <i>topology-one-route-spf-instance</i> | (Optional)   |

|   |            |
|---|------------|
| <i>topology-one-route-on-path</i>           | (Optional) |
| <i>topology-one-route-mt-id</i>             | (Optional) |
| TABLE_ONE_ROUTE_NH                          | (Optional) |
| <i>topology-one-route-nh-system-name</i>    | (Optional) |
| <i>topology-one-route-nh-if-name</i>        | (Optional) |
| <i>topology-one-route-nh-metric</i>         | (Optional) |
| TABLE_ONE_ROUTE_MBEST                       | (Optional) |
| <i>topology-one-route-mbest-system-name</i> | (Optional) |
| <i>topology-one-route-mbest-if-name</i>     | (Optional) |
| <i>topology-one-route-mbest-metric</i>      | (Optional) |
| <i>topology-default-spf-instance</i>        | (Optional) |
| TABLE_NH                                    | (Optional) |
| <i>topology-nh-system-name</i>              | (Optional) |
| <i>topology-nh-if-name</i>                  | (Optional) |
| <i>topology-nh-metric</i>                   | (Optional) |
| TABLE_MBEST                                 | (Optional) |
| <i>topology-mbest-system-name</i>           | (Optional) |
| <i>topology-mbest-if-name</i>               | (Optional) |
| <i>topology-mbest-metric</i>                | (Optional) |

**Command Mode**

- /exec

## show isis traffic

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] traffic [ <interface> ] [ mbuf-priority
] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ { TABLE_process_tag <process-tag-out>
{ TABLE_vrf <vrf-name-out> <traffic-if-out> [ <traffic-if-name-out> ] <traffic-lan-iih-out>
<traffic-lan-iih-rcv-out> <traffic-lan-iih-xmit-out> <traffic-lan-iih-rcv-auth-err-out> <traffic-lan-iih-rcv-err-out>
<traffic-p2p-iih-out> <traffic-p2p-iih-rcv-out> <traffic-p2p-iih-xmit-out> <traffic-p2p-iih-rcv-auth-err-out>
<traffic-p2p-iih-rcv-err-out> <traffic-csnp-out> <traffic-csnp-rcv-out> <traffic-csnp-xmit-out>
<traffic-csnp-rcv-auth-err-out> <traffic-csnp-rcv-err-out> <traffic-psnp-out> <traffic-psnp-rcv-out>
<traffic-psnp-xmit-out> <traffic-psnp-rcv-auth-err-out> <traffic-psnp-rcv-err-out> <traffic-lsp-out>
<traffic-lsp-rcv-out> <traffic-lsp-flood-out> <traffic-lsp-rcv-auth-err-out> <traffic-lsp-rcv-err-out>
<traffic-lsp-rexmit-out> [ <traffic-xmit-err-out> ] [ <traffic-unknown-pdu-rcv-out> ] } } ]
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information             |
| isis                            | Display IS-IS status and configuration      |
| <i>isis-tag</i>                 | (Optional) Routing process tag              |
| vrf                             | (Optional) Display per-VRF information      |
| <i>vrf-name</i>                 | (Optional) VRF name                         |
| <i>vrf-known-name</i>           | (Optional) Known VRF name                   |
| all                             | (Optional) Display information for all VRFs |
| traffic                         | Display IS-IS traffic information           |
| <i>interface</i>                | (Optional) IS-IS interface                  |
| mbuf-priority                   | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| <u>__readonly__</u>             | (Optional)                                  |
| TABLE_process_tag               | (Optional)                                  |
| <i>process-tag-out</i>          | (Optional)                                  |
| TABLE_vrf                       | (Optional)                                  |
| <i>vrf-name-out</i>             | (Optional)                                  |
| <i>traffic-if-out</i>           | (Optional)                                  |
| <i>traffic-if-name-out</i>      | (Optional)                                  |
| <i>traffic-lan-iih-out</i>      | (Optional)                                  |
| <i>traffic-lan-iih-rcv-out</i>  | (Optional)                                  |
| <i>traffic-lan-iih-xmit-out</i> | (Optional)                                  |



|   |            |
|---|------------|
| <i>traffic-lan-iih-rcv-auth-err-out</i> | (Optional) |
| <i>traffic-lan-iih-rcv-err-out</i>      | (Optional) |
| <i>traffic-p2p-iih-out</i>              | (Optional) |
| <i>traffic-p2p-iih-rcv-out</i>          | (Optional) |
| <i>traffic-p2p-iih-xmit-out</i>         | (Optional) |
| <i>traffic-p2p-iih-rcv-auth-err-out</i> | (Optional) |
| <i>traffic-p2p-iih-rcv-err-out</i>      | (Optional) |
| <i>traffic-csnp-out</i>                 | (Optional) |
| <i>traffic-csnp-rcv-out</i>             | (Optional) |
| <i>traffic-csnp-xmit-out</i>            | (Optional) |
| <i>traffic-csnp-rcv-auth-err-out</i>    | (Optional) |
| <i>traffic-csnp-rcv-err-out</i>         | (Optional) |
| <i>traffic-psnp-out</i>                 | (Optional) |
| <i>traffic-psnp-rcv-out</i>             | (Optional) |
| <i>traffic-psnp-xmit-out</i>            | (Optional) |
| <i>traffic-psnp-rcv-auth-err-out</i>    | (Optional) |
| <i>traffic-psnp-rcv-err-out</i>         | (Optional) |
| <i>traffic-lsp-out</i>                  | (Optional) |
| <i>traffic-lsp-rcv-out</i>              | (Optional) |
| <i>traffic-lsp-flood-out</i>            | (Optional) |
| <i>traffic-lsp-rcv-auth-err-out</i>     | (Optional) |
| <i>traffic-lsp-rcv-err-out</i>          | (Optional) |
| <i>traffic-lsp-rexmit-out</i>           | (Optional) |
| <i>traffic-xmit-err-out</i>             | (Optional) |
| <i>traffic-unknown-pdu-rcv-out</i>      | (Optional) |

### Command Mode

- /exec

# show itd

```
show itd [ <svc-name> ] [ brief ] [ __readonly__ <is_detail> ] [ TABLE_summary <is_active> <service_name>
<is_include_acl> <probe> <lb_scheme> <state> <buckets> [ <interface_num> ] [ <interface> ] [
TABLE_interface <interface_grp> ] [ <reason> ] [ <src_interface> ] [ <vrf_name> ] [ <excludeACL> ] [
<peer_status> ] [ TABLE_device <device_grp> <dg_probe> <dg_probe_port> ] [ <is_firstentry_routemap>
] [ TABLE_route_map [ <route_map> ] [ TABLE_rmap_interface [ <r_interface> ] [ <r_status> ] [
<int_track_id> ] ] ] [ TABLE_vip [ <vip_acl_key> ] [ <vip_probe> ] [ <vip_port> ] [ <ace_buckets> ] [
<vip_dgname> ] [ <is_firstentry_vip_node> ] [ TABLE_vip_node <is_vip_node_ipv6> <vip_node>
<vip_config> <vip_weight> <vip_node_probe> <vip_node_probe_port> <vip_node_probe_ip> <vip_status>
<vip_track_id> <vip_ip_sla_id> [ <is_firstentry_standby> ] [ TABLE_vip_standby
<is_standby_vip_node_ipv6> <vip_standby_ip> <vip_standby_config> <vip_standby_weight>
<vip_standby_probe> <vip_standby_probe_port> <vip_standby_probe_ip> <vip_standby_status>
<vip_standby_track_id> <vip_standby_sla_id> ] [ <is_firstentry_acl> ] [ TABLE_vip_acl [ <vip_access_list>
] ] ] [ <is_firstentry> ] [ TABLE_node <is_node_ipv6> <node> <config> <weight> <node_probe>
<node_probe_port> <node_probe_ip> <status> <track_id> <ip_sla_id> [ <is_first_def_stdby> ] [
TABLE_standby <is_standby_node_ipv6> <standby_ip> <standby_config> <standby_weight>
<standby_probe> <standby_probe_port> <standby_probe_ip> <standby_status> <standby_track_id>
<standby_sla_id> ] [ <is_first_defdg_acl> ] [ TABLE_acl [ <access_list> ] ] ] [ <is_lastentry> ] ]
```

## Syntax Description

|                               |                                     |
|-------------------------------|-------------------------------------|
| show                          | Show running system information     |
| itd                           | ITD service                         |
| <i>svc-name</i>               | (Optional) ITD service name         |
| brief                         | (Optional) brief                    |
| <i>__readonly__</i>           | (Optional) Read Only                |
| <i>is_firstentry</i>          | (Optional) First entry              |
| <i>is_firstentry_vip_node</i> | (Optional) First VIP node entry     |
| <i>is_detail</i>              | (Optional) In detail                |
| <i>is_active</i>              | (Optional) Is active                |
| <i>is_firstentry_routemap</i> | (Optional) Is first route-map entry |
| <i>is_firstentry_acl</i>      | (Optional) Is first acl entry       |
| <i>is_firstentry_standby</i>  | (Optional) Is first standby entry   |
| <i>is_include_acl</i>         | (Optional) Is include acl           |
| <i>is_first_defdg_acl</i>     | (Optional) Is first default dg acl  |
| TABLE_summary                 | (Optional)                          |
| <i>service_name</i>           | (Optional) service_name             |

|                      |   |
|----------------------|---|
| <i>probe</i>         | (Optional) probe                        |
| <i>lb_scheme</i>     | (Optional) lb scheme                    |
| <i>interface_num</i> | (Optional) Number of ingress interfaces |
| <i>interface</i>     | (Optional) interface                    |
| TABLE_interface      | (Optional)                              |
| <i>interface_grp</i> | (Optional) interface_grp                |
| <i>src_interface</i> | (Optional) source interface for probe   |
| <i>state</i>         | (Optional) state                        |
| <i>buckets</i>       | (Optional) buckets                      |
| <i>reason</i>        | (Optional) inactive reason              |
| <i>vrf_name</i>      | (Optional) VRF-Name                     |
| <i>excludeACL</i>    | (Optional) exclude access-list          |
| <i>peer_status</i>   | (Optional) peer status                  |
| TABLE_device         | (Optional)                              |
| <i>device_grp</i>    | (Optional) service device group         |
| <i>dg_probe</i>      | (Optional) probe type                   |
| <i>dg_probe_port</i> | (Optional) probe port                   |
| TABLE_route_map      | (Optional)                              |
| <i>route_map</i>     | (Optional) service route map            |
| TABLE_rmap_interface | (Optional)                              |
| <i>r_interface</i>   | (Optional) interface                    |
| <i>r_status</i>      | (Optional) route map status             |
| <i>int_track_id</i>  | (Optional) interface track id           |
| TABLE_vip            | (Optional)                              |
| <i>vip_acl_key</i>   | (Optional) vip ip or acl name           |
| <i>vip_probe</i>     | (Optional) vip protocol                 |
| <i>vip_port</i>      | (Optional) vip port                     |
| <i>vip_dgname</i>    | (Optional) vip device group             |
| <i>ace_buckets</i>   | (Optional) ace active buckets           |

|                                 |                                    |
|---------------------------------|------------------------------------|
| <i>TABLE_vip_node</i>           | (Optional)                         |
| <i>is_vip_node_ipv6</i>         | (Optional) is node ipv6            |
| <i>vip_node</i>                 | (Optional) service node ip         |
| <i>vip_config</i>               | (Optional) node config             |
| <i>vip_weight</i>               | (Optional) node weight             |
| <i>vip_status</i>               | (Optional) node status             |
| <i>vip_node_probe</i>           | (Optional) node probe type         |
| <i>vip_node_probe_port</i>      | (Optional) node probe port         |
| <i>vip_node_probe_ip</i>        | (Optional) node probe ip           |
| <i>vip_track_id</i>             | (Optional) node track id           |
| <i>vip_ip_sla_id</i>            | (Optional) node ip sla id          |
| <i>TABLE_vip_standby</i>        | (Optional)                         |
| <i>is_standby_vip_node_ipv6</i> | (Optional) is standby node ipv6    |
| <i>vip_standby_ip</i>           | (Optional) standby node ip         |
| <i>vip_standby_config</i>       | (Optional) standby node config     |
| <i>vip_standby_weight</i>       | (Optional) standby node weight     |
| <i>vip_standby_status</i>       | (Optional) standby node status     |
| <i>vip_standby_probe</i>        | (Optional) standby node probe type |
| <i>vip_standby_probe_port</i>   | (Optional) standby node probe port |
| <i>vip_standby_probe_ip</i>     | (Optional) standby node probe ip   |
| <i>vip_standby_track_id</i>     | (Optional) standby node track id   |
| <i>vip_standby_sla_id</i>       | (Optional) standby node sla id     |
| <i>TABLE_vip_acl</i>            | (Optional)                         |
| <i>vip_access_list</i>          | (Optional) access list             |
| <i>TABLE_node</i>               | (Optional)                         |
| <i>is_node_ipv6</i>             | (Optional) is node ipv6            |
| <i>node</i>                     | (Optional) service node ip         |
| <i>config</i>                   | (Optional) node config             |
| <i>weight</i>                   | (Optional) node weight             |

|                             |                                     |
|-----------------------------|-------------------------------------|
| <i>status</i>               | (Optional) node status              |
| <i>node_probe</i>           | (Optional) node probe type          |
| <i>node_probe_port</i>      | (Optional) node probe port          |
| <i>node_probe_ip</i>        | (Optional) node probe ip            |
| <i>track_id</i>             | (Optional) node track id            |
| <i>ip_sla_id</i>            | (Optional) node ip sla id           |
| <i>is_first_def_stdbby</i>  | (Optional) first default dg standby |
| TABLE_standby               | (Optional)                          |
| <i>is_standby_node_ipv6</i> | (Optional) is standby node ipv6     |
| <i>standby_ip</i>           | (Optional) standby node ip          |
| <i>standby_config</i>       | (Optional) standby node config      |
| <i>standby_weight</i>       | (Optional) standby node weight      |
| <i>standby_status</i>       | (Optional) standby node status      |
| <i>standby_probe</i>        | (Optional) standby node probe type  |
| <i>standby_probe_port</i>   | (Optional) standby node probe port  |
| <i>standby_probe_ip</i>     | (Optional) standby node probe ip    |
| <i>standby_track_id</i>     | (Optional) standby node track id    |
| <i>standby_sla_id</i>       | (Optional) standby node sla id      |
| TABLE_acl                   | (Optional)                          |
| <i>access_list</i>          | (Optional) access list              |
| <i>is_lastentry</i>         | (Optional) last entry               |

**Command Mode**

- /exec

# show itd session device-group

```
show itd session device-group [ <name> ] [ __readonly__ <first_entry> [ TABLE_svc <node> ] ]
```

## Syntax Description

|                     |                                     |
|---------------------|-------------------------------------|
| show                | Show running system information     |
| itd                 | ITD service                         |
| session             | ITD service session                 |
| device-group        | ITD service session device-group    |
| <i>name</i>         | (Optional) ITD Service session name |
| <i>__readonly__</i> | (Optional) Read Only                |
| <i>first_entry</i>  | (Optional)                          |
| TABLE_svc           | (Optional)                          |
| <i>node</i>         | (Optional) node                     |

## Command Mode

- /exec

## show itd statistics

```
show itd { <svc-name> | all } [ { src { <src-ip> | <src-IPv6> } } | { dst { <dst-ip> | <dst-IPv6> } } ] statistics
[ brief ] [ __readonly__ [ TABLE_nice [ <is_for_ace> ] <service_name> <dev_grp> [ <vip> ] [ <ace_seq> ]
[ <ace_ip> ] <vip_pkt> <percentage> [ TABLE_node <node_num> [ TABLE_bucket <bucket_acl> <node>
<mode> <orig_node> <acl_pkt> <bucket_per> ] ] ] ] ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                 |
| __readonly__        | (Optional) Read Only                            |
| itd                 | ITD service                                     |
| statistics          | ITD statistics                                  |
| brief               | (Optional) brief                                |
| <i>svc-name</i>     | ITD service name                                |
| all                 | All ITD services                                |
| src                 | (Optional) Statistics for src ip                |
| <i>src-ip</i>       | (Optional) Provide statistics for src ip        |
| dst                 | (Optional) Statistics for dst ip                |
| <i>dst-ip</i>       | (Optional) Provide statistics for dst ip        |
| TABLE_nice          | (Optional)                                      |
| <i>is_for_ace</i>   | (Optional)                                      |
| <i>service_name</i> | (Optional) ITD service name                     |
| <i>dev_grp</i>      | (Optional) device group                         |
| <i>vip</i>          | (Optional) service virtual ip                   |
| <i>ace_seq</i>      | (Optional) service ACE name and sequence number |
| <i>ace_ip</i>       | (Optional) service ACE ip/mask/prefix           |
| <i>vip_pkt</i>      | (Optional) virtual ip pkt_count                 |
| <i>percentage</i>   | (Optional) Packet percentage                    |
| TABLE_node          | (Optional)                                      |
| <i>node_num</i>     | (Optional) Node number                          |
| TABLE_bucket        | (Optional)                                      |

|                   |                              |
|-------------------|------------------------------|
| <i>bucket_acl</i> | (Optional) access list       |
| <i>node</i>       | (Optional) service node ip   |
| <i>mode</i>       | (Optional) Redirect mode     |
| <i>orig_node</i>  | (Optional) original node ip  |
| <i>acl_pkt</i>    | (Optional) acl pkt count     |
| <i>bucket_per</i> | (Optional) Packet percentage |

**Command Mode**

- /exec



## show itd vrf

```
show itd vrf [ <name> ] [ __readonly__ <first_entry> [ TABLE_svc <service_name> <vrf_name> <vrf_id> ] ]
```

### Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| itd                 | ITD service                     |
| vrf                 | ITD service vrf                 |
| <i>name</i>         | (Optional) ITD Service VRF name |
| <i>__readonly__</i> | (Optional) Read Only            |
| <i>first_entry</i>  | (Optional)                      |
| TABLE_svc           | (Optional)                      |
| <i>service_name</i> | (Optional) itd service name     |
| <i>vrf_name</i>     | (Optional) vrf name             |
| <i>vrf_id</i>       | (Optional) vrf id               |

### Command Mode

- /exec

 show itd vrf



## K Show Commands

---

- [show key chain, on page 1316](#)
- [show key chain mode decrypt, on page 1317](#)
- [show keystore, on page 1318](#)
- [show kim inconsistency, on page 1319](#)
- [show kubernetes containers, on page 1320](#)

# show key chain

```
{ show key chain [ <keychain> ] } [ __readonly__ TABLE_keychain <chain_name> { TABLE_key [ <key_id> ] [ <key_string> ] [ <crypto_algo> ] [ <accept_utc_zone> ] [ <accept_start> ] [ <accept_end> ] [ <accept_valid> ] [ <send_utc_zone> ] [ <send_start> ] [ <send_end> ] [ <send_valid> ] } }
```

## Syntax Description

|                        |                                 |
|------------------------|---------------------------------|
| show                   | Show running system information |
| key                    | Display Key Information         |
| chain                  | Display Keychain Information    |
| <i>keychain</i>        | (Optional) Keychain name        |
| <i>__readonly__</i>    | (Optional)                      |
| TABLE_keychain         | (Optional)                      |
| TABLE_key              | (Optional)                      |
| <i>chain_name</i>      | (Optional)                      |
| <i>key_id</i>          | (Optional)                      |
| <i>key_string</i>      | (Optional)                      |
| <i>crypto_algo</i>     | (Optional)                      |
| <i>accept_utc_zone</i> | (Optional)                      |
| <i>accept_start</i>    | (Optional)                      |
| <i>accept_end</i>      | (Optional)                      |
| <i>accept_valid</i>    | (Optional)                      |
| <i>send_utc_zone</i>   | (Optional)                      |
| <i>send_start</i>      | (Optional)                      |
| <i>send_end</i>        | (Optional)                      |
| <i>send_valid</i>      | (Optional)                      |

## Command Mode

- /exec

## show key chain mode decrypt

```
{ show key chain [ <keychain> ] mode decrypt } [ __readonly__ TABLE_keychain_decrypt <chain_name>
{ TABLE_key [ <key_id> ] [ <key_string> ] [ <crypto_algo> ] [ <accept_utc_zone> ] [ <accept_start> ] [
<accept_end> ] [ <accept_valid> ] [ <send_utc_zone> ] [ <send_start> ] [ <send_end> ] [ <send_valid> ] } }
```

### Syntax Description

|                               |                                 |
|-------------------------------|---------------------------------|
| show                          | Show running system information |
| key                           | Display Key Information         |
| chain                         | Display Keychain Information    |
| <i>keychain</i>               | (Optional) Keychain name        |
| mode                          | Mode of display                 |
| decrypt                       | Display Decrypted Keystings     |
| <i>__readonly__</i>           | (Optional)                      |
| <i>TABLE_keychain_decrypt</i> | (Optional)                      |
| <i>TABLE_key</i>              | (Optional)                      |
| <i>chain_name</i>             | (Optional)                      |
| <i>key_id</i>                 | (Optional)                      |
| <i>key_string</i>             | (Optional)                      |
| <i>crypto_algo</i>            | (Optional)                      |
| <i>accept_utc_zone</i>        | (Optional)                      |
| <i>accept_start</i>           | (Optional)                      |
| <i>accept_end</i>             | (Optional)                      |
| <i>accept_valid</i>           | (Optional)                      |
| <i>send_utc_zone</i>          | (Optional)                      |
| <i>send_start</i>             | (Optional)                      |
| <i>send_end</i>               | (Optional)                      |
| <i>send_valid</i>             | (Optional)                      |

### Command Mode

- /exec

# show keystore

```
show keystore [ __readonly__ { TABLE_sksd_state_entries <index> <handle> } <keystore_type>
<keystore_ver> <fw_panic> <fw_resets> <rx_fifo_underruns> <rx_timeouts> <rx_bad_checksums>
<rx_bad_fragment_lengths> <keystore_corruption> ]
```

## Syntax Description

|                                |  |
|--------------------------------|--|
| keystore                       | keystore stats                                 |
| <i>__readonly__</i>            | (Optional)                                     |
| TABLE_sksd_state_entries       | (Optional) Displays handles of the keys stored |
| <i>index</i>                   | (Optional) Index value                         |
| <i>handle</i>                  | (Optional) Handle Name                         |
| <i>keystore_type</i>           | (Optional) Type of storage h/w or s/w          |
| <i>keystore_ver</i>            | (Optional) Version                             |
| <i>fw_panic</i>                | (Optional) Number of panics                    |
| <i>fw_resets</i>               | (Optional) Number of Resets                    |
| <i>rx_fifo_underruns</i>       | (Optional) Rx FIFO Underruns                   |
| <i>rx_timeouts</i>             | (Optional) Number of Rx timeouts               |
| <i>rx_bad_checksums</i>        | (Optional) Number of Bad Checksums             |
| <i>rx_bad_fragment_lengths</i> | (Optional) Bad fragment lengths received       |
| <i>keystore_corruption</i>     | (Optional) Number of corruptions detected      |

## Command Mode

- /exec

# show kim inconsistency

show kim inconsistency

## Syntax Description

|               |                                 |
|---------------|---------------------------------|
| show          | Show running system information |
| kim           | Display KIM information         |
| inconsistency | KIM inconsistency               |

## Command Mode

- /exec

# show kubernetes containers

show kubernetes containers [ brief | interface <if\_name> ]

## Syntax Description

|                |                                   |
|----------------|-----------------------------------|
| show           | Show running system information   |
| kubernetes     | Show kubernetes                   |
| containers     | containers                        |
| brief          | (Optional) Show brief information |
| interface      | (Optional) Interface name         |
| <i>if_name</i> | (Optional) Physical interface     |

## Command Mode

- /exec





## L Show Commands

---

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## show l2 mroute

```
show { l2 | fabricpath } mroute { [ vdc-omf ] { [ resolved ] } | [ vlan <vlanid> ] { { [ omf ] | [ flood ] } | [ source
{ <srcaddr> | <v6srcaddr> | <macsrcaddr> } ] [ group { <groupaddr> | <v6groupaddr> | <macgroupaddr> }
] } [ resolved ] [ ftag <ftag-id> ] [ hex ] } } [ __readonly__ [ <hex2> ] { TABLE_gr [ <ftag> ] <vlan_id> [ {
<v4src> <v4grp> <macgrp> | <v6src> <v6grp> <macsrc> } ] [ <omf> | <flood> ] <rt-uptime> <owners>
<num_nh> TABLE_nh { <nh_if> | <nh_sw> } [ <stale> ] [ <exclude> ] [ <svi> ] <flags> <nh-uptime>
<owner> <rt_type> | <done> | <start> } ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                                     |
| l2                  | Layer2 information  |
| fabricpath          | fabricpath information  |
| mroute              | Show multicast route database                                       |
| vdc-omf             | (Optional) Display vdc omf route                                    |
| vlan                | (Optional) Show information for a vlan                              |
| omf                 | (Optional) Show catch-all entry consisting of mroute ports          |
| flood               | (Optional) Display vlan flood route                                 |
| ftag                | (Optional) Show ftag number   |
| source              | (Optional) Show (s, g) source IP address                            |
| group               | (Optional) Show group address                                       |
| hex                 | (Optional) Display switch-ids in hex                                |
| <i>vlanid</i>       | (Optional) Vlan value   |
| <i>ftag-id</i>      | (Optional) ftag id  |
| <i>groupaddr</i>    | (Optional) Group address  |
| <i>macgroupaddr</i> | (Optional) MAC Group address  |
| <i>srcaddr</i>      | (Optional) Source address   |
| <i>macsrcaddr</i>   | (Optional) MAC source address                                       |
| resolved            | (Optional) Resolve switchid nexthops into the underlying interfaces |
| __readonly__        | (Optional) Read Only  |
| <i>hex2</i>         | (Optional)  |
| TABLE_gr            | (Optional)  |



|                  |  |
|------------------|--|
| <i>vlan_id</i>   | (Optional) VLAN                                  |
| <i>rt-uptime</i> | (Optional) Time route was created                |
| <i>num_nh</i>    | (Optional) Number of next-hops                   |
| <i>owners</i>    | (Optional) Owners                                |
| <i>v4src</i>     | (Optional) IPv4 Multicast traffic source         |
| <i>v4grp</i>     | (Optional) IPv4 Multicast Group address          |
| <i>macsrc</i>    | (Optional) MAC Multicast traffic source          |
| <i>macgrp</i>    | (Optional) MAC Multicast Group address           |
| <i>ftag</i>      | (Optional) ftag id                               |
| <i>omf</i>       | (Optional) Is OMF route                          |
| <i>flood</i>     | (Optional) Is flood to vlan route                |
| TABLE_nh         | (Optional)                                       |
| <i>nh_if</i>     | (Optional) The next hop interface                |
| <i>nh_sw</i>     | (Optional) The next hop switch id                |
| <i>owner</i>     | (Optional) Owner                                 |
| <i>flags</i>     | (Optional) flags                                 |
| <i>nh-uptime</i> | (Optional) Time nexthop was created              |
| <i>rt_type</i>   | (Optional) Route type                            |
| <i>stale</i>     | (Optional) Is stale                              |
| <i>exclude</i>   | (Optional) exclude from post routing replication |
| <i>svi</i>       | (Optional) SVI interface                         |
| <i>done</i>      | (Optional) Done displaying route data            |
| <i>start</i>     | (Optional) Print header                          |

### Command Mode

- /exec

## show l2 multicast ftag

```
show { l2 | fabricpath } multicast ftag [ <ftag-id> ] [ __readonly__ TABLE_topo <id> <topo_config>
TABLE_ftag <ftag> <topo_id> <config> ]
```

### Syntax Description

|                     |                                    |
|---------------------|------------------------------------|
| show                | Show running system information    |
| l2                  | Layer2 information                 |
| fabricpath          | fabricpath information             |
| multicast           | Multicast information              |
| ftag                | ftag number                        |
| <i>ftag-id</i>      | (Optional) ftag id                 |
| <i>__readonly__</i> | (Optional) Read Only               |
| TABLE_topo          | (Optional)                         |
| <i>id</i>           | (Optional) topo id                 |
| <i>topo_config</i>  | (Optional) program ftag star route |
| TABLE_ftag          | (Optional)                         |
| <i>ftag</i>         | (Optional) ftag                    |
| <i>topo_id</i>      | (Optional) topo id                 |
| <i>config</i>       | (Optional) ftag config             |

### Command Mode

- /exec

## show l2 multicast trees

```
show { l2 | fabricpath } multicast trees [ topo <topo-id> ] [ ftag <ftag-id> ] [ hex ] [ __readonly__ [ <hex2> ] ] { TABLE_swid <ftag> <topo_id> <sw_id> <rt-uptime> <owners> <num_nh> TABLE_nh [ <preferred> ] { <nh_if> | <nh_sw> } [ <stale> ] <distance> <nh-uptime> <owner> <flags> <rt_type> | <start> | <done> } ]
```

### Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information            |
| l2                  | Layer2 information                         |
| fabricpath          | fabricpath information                     |
| multicast           | Multicast information                      |
| trees               | Show the broadcast/multicast tree database |
| topo                | (Optional) Show topo instance              |
| ftag                | (Optional) Show ftag number                |
| hex                 | (Optional) Display switch-ids in hex       |
| <i>topo-id</i>      | (Optional) topo id                         |
| <i>ftag-id</i>      | (Optional) ftag id                         |
| <i>__readonly__</i> | (Optional) Read Only                       |
| <i>hex2</i>         | (Optional)                                 |
| TABLE_swid          | (Optional)                                 |
| <i>sw_id</i>        | (Optional) switch id                       |
| <i>topo_id</i>      | (Optional) topo id                         |
| <i>ftag</i>         | (Optional) ftag id                         |
| <i>rt-uptime</i>    | (Optional) Time route was created          |
| <i>num_nh</i>       | (Optional) Number of next-hops             |
| <i>owners</i>       | (Optional) Owners                          |
| TABLE_nh            | (Optional)                                 |
| <i>preferred</i>    | (Optional) Is preferred interface          |
| <i>nh_if</i>        | (Optional) The next hop interface          |
| <i>nh_sw</i>        | (Optional) The next hop switch id          |

|                  |                                     |
|------------------|-------------------------------------|
| <i>owner</i>     | (Optional) Owner                    |
| <i>flags</i>     | (Optional) flags                    |
| <i>rt_type</i>   | (Optional) Route type               |
| <i>nh-uptime</i> | (Optional) Time nexthop was created |
| <i>distance</i>  | (Optional) admin distance           |
| <i>stale</i>     | (Optional) Is stale                 |
| <i>start</i>     | (Optional)                          |
| <i>done</i>      | (Optional)                          |

**Command Mode**

- /exec

## show l2 route

```
show { l2 | fabricpath } route [ topology { <topo_val> [ switchid <switchid> ] | all } | switchid <switchid> ]
[ detail | hex ] + [ __readonly__ <line_marker> <is_hex> { TABLE_route <topo_id> <ftag_value> <swid>
<sswid> <num_paths> { TABLE_path <path_str> <admin_distance> <metric> <time> <time_detail> <uuid>
} } ]
```

### Syntax Description

|                       |                                   |
|-----------------------|-----------------------------------|
| show                  | Show running system information   |
| l2                    | Layer2 information                |
| fabricpath            | fabricpath information            |
| route                 | Show FabricPath route information |
| topology              | (Optional) topology               |
| <i>topo_val</i>       | (Optional) topology value         |
| switchid              | (Optional) switchid               |
| <i>switchid</i>       | (Optional) switchid value         |
| all                   | (Optional) all topologies         |
| detail                | (Optional) detail                 |
| hex                   | (Optional) display in hex         |
| <i>__readonly__</i>   | (Optional) Read Only              |
| <i>line_marker</i>    | (Optional) line marker            |
| <i>is_hex</i>         | (Optional) print in hex           |
| TABLE_route           | (Optional) Route delimiter        |
| <i>topo_id</i>        | (Optional) topo-id value          |
| <i>ftag_value</i>     | (Optional) ftag value             |
| <i>swid</i>           | (Optional) switch-id              |
| <i>sswid</i>          | (Optional) sub-switch id          |
| <i>num_paths</i>      | (Optional) num of paths           |
| TABLE_path            | (Optional) Path delimiter         |
| <i>path_str</i>       | (Optional) paths                  |
| <i>admin_distance</i> | (Optional) admin distance         |

|                    |                        |
|--------------------|------------------------|
| <i>metric</i>      | (Optional) metric      |
| <i>time</i>        | (Optional) time        |
| <i>time_detail</i> | (Optional) time_detail |
| <i>uuid</i>        | (Optional) uuid        |

**Command Mode**

- /exec

# show l2fwder l2rib info

show l2fwder l2rib info

## Syntax Description

|         |                                 |
|---------|---------------------------------|
| show    | Show running system information |
| l2fwder | L2 software forwarding          |
| l2rib   | L2RIB                           |
| info    | stats and info                  |

## Command Mode

- /exec

# show l2fwder statistics

show l2fwder statistics

## Syntax Description

|            |  |
|------------|--|
| show       | Show running system information        |
| l2fwder    | Display L2FWDER forwarding information |
| statistics | Show L2FWDER packet counters           |

## Command Mode

- /exec



## show l2rib clients

```
show l2rib clients [ <client_id> ] [ __readonly__ TABLE_l2rib_clients <client-id> <uuid> <process-suffix> ]
```

### Syntax Description

|                            |                                  |
|----------------------------|----------------------------------|
| show                       | Show running system information  |
| l2rib                      | Layer 2 routing information base |
| clients                    | L2RIB Clients                    |
| <i>client_id</i>           | (Optional) Enter Client ID       |
| <i>__readonly__</i>        | (Optional)                       |
| <i>TABLE_l2rib_clients</i> | (Optional) L2RIB Clients Table   |
| <i>client-id</i>           | (Optional) Client ID             |
| <i>uuid</i>                | (Optional) Process ID            |
| <i>process-suffix</i>      | (Optional) Process Name Suffix   |

### Command Mode

- /exec

## show l2rib producers

```
show l2rib producers [ { topology | mac | mac-ip | ead | pl | imet | flood-list | startup-route | peerid | es } [ static
| local | bgp | vxlan | hmm | arp | ofa | lisp ] ] [ detail ] [ __readonly__ TABLE_l2rib_producers <prod-name>
<prod-id> <client-id> <obj-type> <admin-dist> <purge-time> <state> [ <prod-flags> ] ]
```

### Syntax Description

|                       |                                    |
|-----------------------|------------------------------------|
| show                  | Show running system information    |
| l2rib                 | Layer 2 routing information base   |
| producers             | L2RIB Producers                    |
| detail                | (Optional) Detailed information    |
| topology              | (Optional) Filter on Topology      |
| mac                   | (Optional) Filter on MAC           |
| mac-ip                | (Optional) Filter on MAC-IP        |
| ead                   | (Optional) Filter on Ethernet-AD   |
| pl                    | (Optional) Filter on Path List     |
| imet                  | (Optional) Filter on IMET Route    |
| flood-list            | (Optional) Filter on Flood List    |
| startup-route         | (Optional) Filter on Startup Route |
| peerid                | (Optional) Filter on Peerid        |
| es                    | (Optional) Filter on ES            |
| static                | (Optional) Static                  |
| local                 | (Optional) Local                   |
| bgp                   | (Optional) BGP                     |
| vxlan                 | (Optional) VXLAN                   |
| hmm                   | (Optional) HMM                     |
| arp                   | (Optional) ARP                     |
| ofa                   | (Optional) OFA                     |
| lisp                  | (Optional) lisp                    |
| __readonly__          | (Optional)                         |
| TABLE_l2rib_producers | (Optional) L2RIB Producers Table   |

|                   |                                  |
|-------------------|----------------------------------|
| <i>prod-name</i>  | (Optional) Producer Name         |
| <i>prod-id</i>    | (Optional) Producer ID           |
| <i>client-id</i>  | (Optional) Client ID             |
| <i>obj-type</i>   | (Optional) Object Type           |
| <i>admin-dist</i> | (Optional) Admin Distance        |
| <i>purge-time</i> | (Optional) Purge Time            |
| <i>state</i>      | (Optional) State                 |
| <i>prod-flags</i> | (Optional) Global Producer Flags |

**Command Mode**

- /exec

## show l2rib registrations

```
show l2rib registrations [ client <client_id> [ <topo_id> { mac | mac-ip | ead | pl | imet | flood-list | arp-signal
| startup-route | topo | es } ] ] [ __readonly__ TABLE_l2rib_registrations <client-id> <topo-id> <obj-type>
<prod> ]
```

### Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information          |
| l2rib                     | Layer 2 routing information base         |
| registrations             | L2RIB Registrations                      |
| client                    | (Optional) Global Registraion Entries    |
| <i>client_id</i>          | (Optional) Enter Client ID               |
| <i>topo_id</i>            | (Optional) Enter Topology ID             |
| mac                       | (Optional) Filter on MAC                 |
| mac-ip                    | (Optional) Filter on MAC-IP              |
| ead                       | (Optional) Filter on Ethernet-AD         |
| pl                        | (Optional) Filter on Path List           |
| imet                      | (Optional) Filter on IMET Route          |
| es                        | (Optional) Filter on Ethernet Segment ID |
| flood-list                | (Optional) Filter on Flood List          |
| startup-route             | (Optional) Filter on Startup Route       |
| arp-signal                | (Optional) Filter on ARP Signal          |
| topo                      | (Optional) Filter on Topo Subtype        |
| __readonly__              | (Optional)                               |
| TABLE_l2rib_registrations | (Optional) L2RIB Registrations Table     |
| <i>client-id</i>          | (Optional) Client ID                     |
| <i>topo-id</i>            | (Optional) Topology ID                   |
| <i>obj-type</i>           | (Optional) Object Type                   |
| <i>prod</i>               | (Optional) Producer                      |

### Command Mode

- /exec

## show l2route cmcast topology

```
show l2route cmcast { topology <topo-id> | all } [ detail ] [ __readonly__ TABLE_l2route_cmcast <topo-id>
<src-ip-addr> <grp-ip-addr> <peer-ip-addr> [ <peer-type> ] [ <prod-type> ] [ <peer-id> ] [ <vrf-id> ] [
<l3vni-id> ] ]
```

### Syntax Description

|                      |                                      |
|----------------------|--------------------------------------|
| show                 | Show running system information      |
| l2route              | Layer 2 routing information base     |
| cmcast               | CMCAST Route                         |
| topology             | Filter on topology ID                |
| <i>topo-id</i>       | topology ID                          |
| all                  | Display all routes without filtering |
| detail               | (Optional) Detailed information      |
| __readonly__         | (Optional)                           |
| TABLE_l2route_cmcast | (Optional) L2RIB CMCAST Table        |
| <i>topo-id</i>       | (Optional) Topology ID               |
| <i>src-ip-addr</i>   | (Optional) SRC IP Address            |
| <i>grp-ip-addr</i>   | (Optional) GRP IP Address            |
| <i>peer-ip-addr</i>  | (Optional) PEER IP Address           |
| <i>peer-type</i>     | (Optional) Peer Type                 |
| <i>prod-type</i>     | (Optional) Producer Type             |
| <i>peer-id</i>       | (Optional) Peer ID                   |
| <i>vrf-id</i>        | (Optional) VRF ID                    |
| <i>l3vni-id</i>      | (Optional) L3VNI ID                  |

### Command Mode

- /exec

# show l2route evpn ead all

```
show l2route evpn ead all [ detail ] [ __readonly__ TABLE_l2route_evpn_ead_all <topo-id> <prod> <esi>
<client-nfn> <num_pls> [ { <next-hop> } ] ]
```

## Syntax Description

|                            |                                       |
|----------------------------|---------------------------------------|
| show                       | Show running system information       |
| l2route                    | Layer 2 routing information base      |
| evpn                       | EVPN                                  |
| ead                        | EAD                                   |
| all                        | Display all routes without filtering  |
| detail                     | (Optional) Detailed information       |
| __readonly__               | (Optional)                            |
| TABLE_l2route_evpn_ead_all | (Optional) L2RIB EVPN EAD All Table   |
| <i>topo-id</i>             | (Optional) Topology ID                |
| <i>prod</i>                | (Optional) Producer                   |
| <i>esi</i>                 | (Optional) ESI                        |
| <i>client-nfn</i>          | (Optional) Client Notification Bitmap |
| <i>num_pls</i>             | (Optional) Number of Path lists       |
| <i>next-hop</i>            | (Optional) Next Hop                   |

## Command Mode

- /exec

## show l2route evpn ethernet-segment esi

```
show l2route evpn ethernet-segment { esi <esi-id> | all } [ bgp | vxlan ] [ detail ] [ __readonly__
TABLE_l2route_es <ethernet-segment> <originating-rtr> <prod-name> <int-ifhdl> <client-nfn> ]
```

### Syntax Description

|                         |                                       |
|-------------------------|---------------------------------------|
| show                    | Show running system information       |
| l2route                 | Layer 2 routing information base      |
| evpn                    | EVPN                                  |
| ethernet-segment        | Ethernet Segment ID                   |
| esi                     | ESI Value                             |
| <i>esi-id</i>           | ESI ID                                |
| all                     | Display all entries without filtering |
| bgp                     | (Optional) Filter on BGP producer     |
| vxlan                   | (Optional) Filter on VXLAN producer   |
| detail                  | (Optional) Detailed information       |
| <i>__readonly__</i>     | (Optional)                            |
| TABLE_l2route_es        | (Optional) L2RIB ES Table             |
| <i>ethernet-segment</i> | (Optional) ESI                        |
| <i>originating-rtr</i>  | (Optional) Originating Router         |
| <i>prod-name</i>        | (Optional) Producer Name              |
| <i>int-ifhdl</i>        | (Optional) Interface Handle           |
| <i>client-nfn</i>       | (Optional) Client Notification Bitmap |

### Command Mode

- /exec

## show l2route evpn fl all

```
show l2route evpn fl all [ detail ] [ __readonly__ TABLE_l2route_fl_all <topo-id> <peer-id> <flood-list>
<is-service-node> [ <client-nfn> ] ]
```

### Syntax Description

|                        |                                       |
|------------------------|---------------------------------------|
| show                   | Show running system information       |
| l2route                | Layer 2 routing information base      |
| evpn                   | EVPN                                  |
| fl                     | Flood List                            |
| all                    | Display all routes without filtering  |
| detail                 | (Optional) Detailed information       |
| __readonly__           | (Optional)                            |
| TABLE_l2route_fl_all   | (Optional) L2RIB Flood List All Table |
| <i>topo-id</i>         | (Optional) Topology ID                |
| <i>peer-id</i>         | (Optional) Peer-ID                    |
| <i>flood-list</i>      | (Optional) Flood List                 |
| <i>is-service-node</i> | (Optional) Is Service Node            |
| <i>client-nfn</i>      | (Optional) Client Notification Bitmap |

### Command Mode

- /exec



## show l2route evpn fl evi

```
show l2route evpn fl evi <vpn-id> [ detail ] [ __readonly__ TABLE_l2route_fl <peer-id> <flood-list>
<is-service-node> [ <client-nfn> ] ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information               |
| l2route                | Layer 2 routing information base              |
| evpn                   | EVPN  |
| fl                     | Flood List                                    |
| evi                    | Filter on E-VPN identifier (VLAN-ID or BD-ID) |
| <i>vpn-id</i>          | E-VPN identifier (VLAN-ID or BD-ID)           |
| detail                 | (Optional) Detailed information               |
| <i>__readonly__</i>    | (Optional)                                    |
| TABLE_l2route_fl       | (Optional) L2RIB Flood List Table             |
| <i>peer-id</i>         | (Optional) Peer-ID                            |
| <i>flood-list</i>      | (Optional) Flood List                         |
| <i>is-service-node</i> | (Optional) Is Service Node                    |
| <i>client-nfn</i>      | (Optional) Client Notification Bitmap         |

### Command Mode

- /exec

## show l2route evpn imet all

```
show l2route evpn imet all [ detail ] [ __readonly__ TABLE_l2route_imet_all <topo-id> <vni> <prod-type>
<ip-addr> [ <eth-tag-id> ] [ <pmsi-flags> ] [ <flags> ] [ <type> ] [ <vni-label> ] [ <tunnel-id> ] [ <client-nfn>
]
```

### Syntax Description

|                        |                                       |
|------------------------|---------------------------------------|
| show                   | Show running system information       |
| l2route                | Layer 2 routing information base      |
| evpn                   | EVPN                                  |
| imet                   | IMET Route                            |
| all                    | Display all routes without filtering  |
| detail                 | (Optional) Detailed information       |
| __readonly__           | (Optional)                            |
| TABLE_l2route_imet_all | (Optional) L2RIB IMET All Table       |
| <i>topo-id</i>         | (Optional) Topology ID                |
| <i>vni</i>             | (Optional) VNI                        |
| <i>prod-type</i>       | (Optional) Producer Type              |
| <i>ip-addr</i>         | (Optional) IP Address                 |
| <i>eth-tag-id</i>      | (Optional) Ethernet Tag ID            |
| <i>pmsi-flags</i>      | (Optional) PMSI Flags                 |
| <i>flags</i>           | (Optional) Flags                      |
| <i>type</i>            | (Optional) Type                       |
| <i>vni-label</i>       | (Optional) VNI Label                  |
| <i>tunnel-id</i>       | (Optional) Tunnel ID                  |
| <i>client-nfn</i>      | (Optional) Client Notification Bitmap |

### Command Mode

- /exec

# show l2route evpn imet evi

```
show l2route evpn imet evi <vpn-id> [ bgp | vxlan ] [ detail ] [ __readonly__ TABLE_l2route_imet <vni>
<prod-type> <ip-addr> [ <eth-tag-id> ] [ <pmsi-flags> ] [ <flags> ] [ <type> ] [ <vni-label> ] [ <tunnel-id>
] [ <client-nfn> ] ]
```

## Syntax Description

|                    |   |
|--------------------|---|
| show               | Show running system information                         |
| l2route            | Layer 2 routing information base                        |
| evpn               | EVPN  |
| imet               | IMET Route  |
| evi                | Filter on E-VPN identifier (VLAN-ID or BD-ID)           |
| <i>vpn-id</i>      | E-VPN identifier (VLAN-ID or BD-ID)                     |
| bgp                | (Optional) Filter on BGP producer (remote imet routes)  |
| vxlan              | (Optional) Filter on VXLAN producer (local imet routes) |
| detail             | (Optional) Detailed information                         |
| __readonly__       | (Optional)  |
| TABLE_l2route_imet | (Optional) L2RIB IMET Table                             |
| <i>vni</i>         | (Optional) VNI  |
| <i>prod-type</i>   | (Optional) Producer Type                                |
| <i>ip-addr</i>     | (Optional) IP Address                                   |
| <i>eth-tag-id</i>  | (Optional) Ethernet Tag ID                              |
| <i>pmsi-flags</i>  | (Optional) PMSI Flags                                   |
| <i>flags</i>       | (Optional) Flags  |
| <i>type</i>        | (Optional) Type   |
| <i>vni-label</i>   | (Optional) VNI Label                                    |
| <i>tunnel-id</i>   | (Optional) Tunnel ID                                    |
| <i>client-nfn</i>  | (Optional) Client Notification Bitmap                   |

## Command Mode

- /exec

## show l2route evpn mac-ip all

```
show l2route evpn mac-ip all [ detail ] [ __readonly__ TABLE_l2route_mac_ip_all <topo-id> <mac-addr>
<host-ip> <prod-type> <flags> <seq-num> <next-hop1> [ <next-hop2> ] [ <l3-info> ] [ <fwd-state> ] [
<rte-res> ] [ <sent-to> ] [ <peerid> ] [ <peer-ifindex> ] [ <esi-id> ] [ <soo> ] [ <pcinfo> ] [ <vrf-id> ] [
<encap-type> ] ]
```

### Syntax Description

|                          |                                      |
|--------------------------|--------------------------------------|
| show                     | Show running system information      |
| l2route                  | Layer 2 routing information base     |
| evpn                     | EVPN                                 |
| mac-ip                   | MAC-IP Route                         |
| all                      | Display all routes without filtering |
| detail                   | (Optional) Detailed information      |
| __readonly__             | (Optional)                           |
| TABLE_l2route_mac_ip_all | (Optional) L2RIB Mac-IP All Table    |
| <i>topo-id</i>           | (Optional) Topology ID               |
| <i>mac-addr</i>          | (Optional) Mac Address               |
| <i>host-ip</i>           | (Optional) Host IP                   |
| <i>prod-type</i>         | (Optional) Producer Type             |
| <i>flags</i>             | (Optional) Flags                     |
| <i>seq-num</i>           | (Optional) Sequence Number           |
| <i>next-hop1</i>         | (Optional) Next Hop 1                |
| <i>next-hop2</i>         | (Optional) Next Hop 2                |
| <i>l3-info</i>           | (Optional) L3 Information            |
| <i>fwd-state</i>         | (Optional) Forwarding State          |
| <i>rte-res</i>           | (Optional) Route Resolution          |
| <i>sent-to</i>           | (Optional) Active Clients            |
| <i>peerid</i>            | (Optional) Peer ID                   |
| <i>peer-ifindex</i>      | (Optional) Peer Interface Index      |
| <i>esi-id</i>            | (Optional) ESI ID                    |

|                   |   |
|-------------------|---|
| <i>soo</i>        | (Optional) SOO                          |
| <i>pcinfo</i>     | (Optional) Port-Channel Info            |
| <i>vrf-id</i>     | (Optional) vrf id associated with route |
| <i>encap-type</i> | (Optional) Overlay encap type           |

**Command Mode**

- /exec

## show l2route evpn mac-ip evi

```
show l2route evpn mac-ip evi <vpn-id> [ arp | bgp | hmm ] [ mac <mac_addr> ] [ host-ip { <ipv4_host> | <ipv6_host> } ] [ next-hop { <ipv4_addr> | <ipv6_addr> | <if-hdl> } ] [ detail ] [ __readonly__
TABLE_l2route_mac_ip_evi <topo-id> <mac-addr> <host-ip> <prod-type> <flags> <seq-num> <next-hop1>
[ <next-hop2> ] [ <l3-info> ] [ <fwd-state> ] [ <rte-res> ] [ <sent-to> ] [ <peerid> ] [ <peer-ifindex> ] [ <esi-id>
] [ <soo> ] [ <pcinfo> ] [ <vrf-id> ] [ <encap-type> ] ]
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information                    |
| l2route                  | Layer 2 routing information base                   |
| evpn                     | EVPN   |
| mac-ip                   | MAC-IP Route                                       |
| evi                      | Filter on E-VPN identifier (VLAN-ID or BD-ID)      |
| <i>vpn-id</i>            | E-VPN identifier (VLAN-ID or BD-ID)                |
| arp                      | (Optional) Filter on ARP producer                  |
| bgp                      | (Optional) Filter on BGP producer                  |
| hmm                      | (Optional) Filter on HMM producer                  |
| mac                      | (Optional) Filter on MAC address                   |
| <i>mac_addr</i>          | (Optional) 48-bit MAC address value                |
| host-ip                  | (Optional) Filter on Host IP address               |
| <i>ipv4_host</i>         | (Optional) IPv4 address                            |
| next-hop                 | (Optional) Filter on Next-Hop IP or Interface Name |
| <i>ipv4_addr</i>         | (Optional) IPv4 address of Next Hop                |
| <i>if-hdl</i>            | (Optional) Interface index of Next Hop             |
| detail                   | (Optional) Detailed information                    |
| __readonly__             | (Optional)   |
| TABLE_l2route_mac_ip_evi | (Optional) L2RIB Mac-IP Table                      |
| <i>topo-id</i>           | (Optional) Topology ID                             |
| <i>mac-addr</i>          | (Optional) Mac Address                             |
| <i>host-ip</i>           | (Optional) Host IP                                 |
| <i>prod-type</i>         | (Optional) Producer Type                           |

|                     |   |
|---------------------|---|
| <i>flags</i>        | (Optional) Flags                        |
| <i>seq-num</i>      | (Optional) Sequence Number              |
| <i>next-hop1</i>    | (Optional) Next Hop 1                   |
| <i>next-hop2</i>    | (Optional) Next Hop 2                   |
| <i>l3-info</i>      | (Optional) L3 Information               |
| <i>fwd-state</i>    | (Optional) Forwarding State             |
| <i>rte-res</i>      | (Optional) Route Resolution             |
| <i>sent-to</i>      | (Optional) Active Clients               |
| <i>peerid</i>       | (Optional) Peer ID                      |
| <i>peer-ifindex</i> | (Optional) Peer Interface Index         |
| <i>esi-id</i>       | (Optional) ESI ID                       |
| <i>soo</i>          | (Optional) SOO                          |
| <i>pcinfo</i>       | (Optional) Port-Channel Info            |
| <i>vrf-id</i>       | (Optional) vrf-id associated with route |
| <i>encap-type</i>   | (Optional) Overlay encap type           |

**Command Mode**

- /exec

## show l2route evpn mac all

```
show l2route evpn mac all [ detail ] [ __readonly__ TABLE_l2route_mac_all <topo-id> <mac-addr>
<prod-type> <flags> <seq-num> <next-hop1> [ <next-hop2> ] [ <rte-res> ] [ <fwd-state> ] [ <res-pl-next-hop1>
] [ <res-pl-next-hop2> ] [ <sent-to> ] [ <esi-id> ] [ <soo> ] [ <pcinfo> ] [ <encap-type> ] ]
```

### Syntax Description

|                         |                                      |
|-------------------------|--------------------------------------|
| show                    | Show running system information      |
| l2route                 | Layer 2 routing information base     |
| evpn                    | EVPN                                 |
| mac                     | MAC Route                            |
| all                     | Display all routes without filtering |
| detail                  | (Optional) Detailed information      |
| __readonly__            | (Optional)                           |
| TABLE_l2route_mac_all   | (Optional) L2RIB Mac All Table       |
| <i>topo-id</i>          | (Optional) Topology ID               |
| <i>mac-addr</i>         | (Optional) Mac Address               |
| <i>prod-type</i>        | (Optional) Producer Type             |
| <i>flags</i>            | (Optional) Flags                     |
| <i>seq-num</i>          | (Optional) Sequence Number           |
| <i>fwd-state</i>        | (Optional) Forwarding State          |
| <i>res-pl-next-hop1</i> | (Optional) Resultant PL Next hop 1   |
| <i>res-pl-next-hop2</i> | (Optional) Resultant PL Next hop 2   |
| <i>rte-res</i>          | (Optional) Route Resolution          |
| <i>sent-to</i>          | (Optional) Active Clients            |
| <i>esi-id</i>           | (Optional) ESI ID                    |
| <i>soo</i>              | (Optional) SOO                       |
| <i>pcinfo</i>           | (Optional) Port-Channel Info         |
| <i>encap-type</i>       | (Optional) Overlay encap type        |
| <i>next-hop1</i>        | (Optional) Next Hop 1                |
| <i>next-hop2</i>        | (Optional) Next Hop 2                |



### Command Mode

- /exec

## show l2route evpn mac evi

```
show l2route evpn mac evi <vpn-id> [ static | local | bgp | vxlan | lisp ] [ mac <mac_addr> ] [ next-hop {
<ipv4_addr> | <ipv6_addr> | <if-hdl> } ] [ esi <esi-id> ] [ detail ] [ __readonly__ TABLE_l2route_mac_evi
<topo-id> <mac-addr> <prod-type> <flags> <seq-num> <next-hop1> [ <next-hop2> ] [ <rte-res> ] [ <fwd-state>
] [ <res-pl-next-hop1> ] [ <res-pl-next-hop2> ] [ <sent-to> ] [ <esi-id> ] [ <soo> ] [ <pcinfo> ] [ <encap-type>
] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                    |
| l2route               | Layer 2 routing information base                   |
| evpn                  | EVPN   |
| mac                   | MAC Route  |
| evi                   | Filter on E-VPN identifier (VLAN-ID or BD-ID)      |
| <i>vpn-id</i>         | E-VPN identifier (VLAN-ID or BD-ID)                |
| static                | (Optional) Filter on Static producer               |
| local                 | (Optional) Filter on Local producer                |
| bgp                   | (Optional) Filter on BGP producer                  |
| vxlan                 | (Optional) Filter on VXLAN producer                |
| lisp                  | (Optional) Filter on LISP producer                 |
| mac                   | (Optional) Filter on MAC address                   |
| esi                   | (Optional) Filter on ESI value                     |
| <i>mac_addr</i>       | (Optional) Enter 48-bit MAC address value          |
| next-hop              | (Optional) Filter on Next-Hop IP or Interface Name |
| <i>ipv4_addr</i>      | (Optional) IPv4 address of Next Hop                |
| <i>if-hdl</i>         | (Optional) Interface index of Next Hop             |
| detail                | (Optional) Detailed information                    |
| __readonly__          | (Optional)   |
| TABLE_l2route_mac_evi | (Optional) L2RIB Mac EVI Table                     |
| <i>topo-id</i>        | (Optional) Topology ID                             |
| <i>mac-addr</i>       | (Optional) Mac Address                             |
| <i>prod-type</i>      | (Optional) Producer Type                           |

|                         |                                    |
|-------------------------|------------------------------------|
| <i>flags</i>            | (Optional) Flags                   |
| <i>seq-num</i>          | (Optional) Sequence Number         |
| <i>next-hop1</i>        | (Optional) Next Hop 1              |
| <i>next-hop2</i>        | (Optional) Next Hop 2              |
| <i>fwd-state</i>        | (Optional) Forwarding State        |
| <i>res-pl-next-hop1</i> | (Optional) Resultant PL Next hop 1 |
| <i>res-pl-next-hop2</i> | (Optional) Resultant PL Next hop 2 |
| <i>rte-res</i>          | (Optional) Route Resolution        |
| <i>sent-to</i>          | (Optional) Active Clients          |
| <i>esi-id</i>           | (Optional) ESI ID                  |
| <i>soo</i>              | (Optional) SOO                     |
| <i>pcinfo</i>           | (Optional) Port-Channel Info       |
| <i>encap-type</i>       | (Optional) Overlay encap-type      |

#### Command Mode

- /exec

## show l2route evpn path-list all

```
show l2route evpn path-list { all | esi <esi-id> } [ detail ] [ __readonly__ TABLE_l2route_evpn_pathlist_all
<topo-id> <prod> <esi> [ <ecmp_label> ] [ <flags> ] [ <client_ctx> ] <mac-cnt> <client-nfn> [ { <cp-next-hop>
} ] [ { <res-next-hop> } ] ]
```

### Syntax Description

|                                 |  |
|---------------------------------|--|
| show                            | Show running system information          |
| l2route                         | Layer 2 routing information base         |
| evpn                            | EVPN                                     |
| path-list                       | Path-List                                |
| all                             | Display all routes without filtering     |
| esi                             | ESI Value                                |
| <i>esi-id</i>                   | ESI ID                                   |
| detail                          | (Optional) Detailed information          |
| __readonly__                    | (Optional)                               |
| TABLE_l2route_evpn_pathlist_all | (Optional) L2RIB EVPN Pathlist all Table |
| <i>topo-id</i>                  | (Optional) Topology ID                   |
| <i>prod</i>                     | (Optional) Producer                      |
| <i>esi</i>                      | (Optional) ESI                           |
| <i>ecmp_label</i>               | (Optional) ECMP label                    |
| <i>flags</i>                    | (Optional) Flags                         |
| <i>client_ctx</i>               | (Optional) Client context                |
| <i>mac-cnt</i>                  | (Optional) Mac count                     |
| <i>client-nfn</i>               | (Optional) Client Notification Bitmap    |
| <i>cp-next-hop</i>              | (Optional) Control plane Next hops       |
| <i>res-next-hop</i>             | (Optional) Resultant Next hops           |

### Command Mode

- /exec

## show l2route evpn startup-route all

```
show l2route evpn startup-route all [ detail ] [ __readonly__ TABLE_l2route_startup_route_all <topo-id>
<src-group> <del-src-group> [ <src-lpbk-ifhdl> ] [ <nve-ifhdl> ] [ <flags> ] [ <client-nfn> ] ]
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information             |
| l2route                         | Layer 2 routing information base            |
| evpn                            | EVPN  |
| startup-route                   | Startup Route                               |
| all                             | Display all routes without filtering        |
| detail                          | (Optional) Detailed information             |
| __readonly__                    | (Optional)                                  |
| TABLE_l2route_startup_route_all | (Optional) L2RIB Startup-Route All Table    |
| <i>topo-id</i>                  | (Optional) Topology ID                      |
| <i>src-group</i>                | (Optional) Source Group                     |
| <i>del-src-group</i>            | (Optional) Delivery Source Group            |
| <i>src-lpbk-ifhdl</i>           | (Optional) Source Loopback Interface Handle |
| <i>nve-ifhdl</i>                | (Optional) NVE Interface Handle             |
| <i>flags</i>                    | (Optional) Flags                            |
| <i>client-nfn</i>               | (Optional) Client Notification Bitmap       |

### Command Mode

- /exec

## show l2route evpn startup-route evi

```
show l2route evpn startup-route evi <vpn-id> [ detail ] [ __readonly__ TABLE_l2route_startup_route
<src-group> <del-src-group> [ <src-lpbk-ifhdl> ] [ <nve-ifhdl> ] [ <flags> ] [ <client-nfn> ] ]
```

### Syntax Description

|                             |   |
|-----------------------------|---|
| show                        | Show running system information               |
| l2route                     | Layer 2 routing information base              |
| evpn                        | EVPN  |
| startup-route               | Startup Route                                 |
| evi                         | Filter on E-VPN identifier (VLAN-ID or BD-ID) |
| <i>vpn-id</i>               | E-VPN identifier (VLAN-ID or BD-ID)           |
| detail                      | (Optional) Detailed information               |
| <i>__readonly__</i>         | (Optional)                                    |
| TABLE_l2route_startup_route | (Optional) L2RIB Startup-Route Table          |
| <i>src-group</i>            | (Optional) Source Group                       |
| <i>del-src-group</i>        | (Optional) Delivery Source Group              |
| <i>src-lpbk-ifhdl</i>       | (Optional) Source Loopback Interface Handle   |
| <i>nve-ifhdl</i>            | (Optional) NVE Interface Handle               |
| <i>flags</i>                | (Optional) Flags                              |
| <i>client-nfn</i>           | (Optional) Client Notification Bitmap         |

### Command Mode

- /exec

# show l2route fl topology

```
show l2route fl { topology <topo-id> | all } [ detail ] [ __readonly__ TABLE_l2route_fl [ <topo-id> ] <peer-id>
<flood-list> <is-service-node> [ <client-nfn> ] ]
```

## Syntax Description

|                        |                                       |
|------------------------|---------------------------------------|
| show                   | Show running system information       |
| l2route                | Layer 2 routing information base      |
| fl                     | Flood List                            |
| all                    | Display all routes without filtering  |
| topology               | Filter on topology ID                 |
| <i>topo-id</i>         | topology ID                           |
| detail                 | (Optional) Detailed information       |
| __readonly__           | (Optional)                            |
| TABLE_l2route_fl       | (Optional) L2RIB Flood List Table     |
| <i>topo-id</i>         | (Optional) Topology ID                |
| <i>peer-id</i>         | (Optional) Peer-ID                    |
| <i>flood-list</i>      | (Optional) Flood List                 |
| <i>is-service-node</i> | (Optional) Is Service Node            |
| <i>client-nfn</i>      | (Optional) Client Notification Bitmap |

## Command Mode

- /exec

# show l2route peerid

```
show l2route peerid [ __readonly__ TABLE_l2route_peerid <if-hdl> <ip-addr> <peer-id> <if-idx> <num-macs>
<num-nhs> ]
```

## Syntax Description

|                      |                                  |
|----------------------|----------------------------------|
| show                 | Show running system information  |
| l2route              | Layer 2 routing information base |
| peerid               | Display Peer ID DB               |
| __readonly__         | (Optional)                       |
| TABLE_l2route_peerid | (Optional) L2RIB Peer-ID Table   |
| <i>if-hdl</i>        | (Optional) Interface Handle      |
| <i>ip-addr</i>       | (Optional) IP Address            |
| <i>if-idx</i>        | (Optional) Peer Interface Index  |
| <i>peer-id</i>       | (Optional) Peer-ID               |
| <i>num-macs</i>      | (Optional) Number of Macs        |
| <i>num-nhs</i>       | (Optional) Number of NHs         |

## Command Mode

- /exec



# show l2route summary

```
show l2route summary [ __readonly__ { <total_memory> <numof_converged_tables> [ {
TABLE_l2route_summary <table_name> { TABLE_producer <producer_name> <id> <objects> <memory>
} <total><total_obj><total_mem> } ] } ]
```

## Syntax Description

|                               |                                       |
|-------------------------------|---------------------------------------|
| show                          | Show running system information       |
| l2route                       | Layer 2 routing information base      |
| summary                       | Summary                               |
| <i>__readonly__</i>           | (Optional) Read only                  |
| <i>total_memory</i>           | (Optional) Total memory               |
| <i>numof_converged_tables</i> | (Optional) Number of converged tables |
| TABLE_l2route_summary         | (Optional) L2route summary table      |
| <i>table_name</i>             | (Optional) Table name                 |
| TABLE_producer                | (Optional) Producer table             |
| <i>producer_name</i>          | (Optional) Producer name              |
| <i>id</i>                     | (Optional) id                         |
| <i>objects</i>                | (Optional) objects                    |
| <i>memory</i>                 | (Optional) Memory                     |

## Command Mode

- /exec

## show l2route topology

```
show l2route { mac | openflow mac | dataplane mac [ local | remote ] } { topology <topo-id> | all } [ detail ]
[ __readonly__ TABLE_l2route_mac <topo-id> <mac-addr> <prod-type> <flags> <seq-num> <next-hop1>
[ <next-hop2> ] [ <rte-res> ] [ <fwd-state> ] [ <res-pl-next-hop1> ] [ <res-pl-next-hop2> ] [ <sent-to> ] [
<esi-id> ] [ <soo> ] [ <pcinfo> ] [ <encap-type> ] ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information           |
| l2route                  | Layer 2 routing information base          |
| dataplane                | dataplane                                 |
| openflow                 | openflow                                  |
| mac                      | MAC Route                                 |
| all                      | Display all routes without filtering      |
| local                    | (Optional) dataplane learnt local routes  |
| remote                   | (Optional) dataplane learnt remote routes |
| topology                 | Filter on topology ID                     |
| <i>topo-id</i>           | topology ID                               |
| detail                   | (Optional) Detailed information           |
| <i>__readonly__</i>      | (Optional)                                |
| <i>TABLE_l2route_mac</i> | (Optional) L2RIB Mac All Table            |
| <i>topo-id</i>           | (Optional) Topology ID                    |
| <i>mac-addr</i>          | (Optional) Mac Address                    |
| <i>prod-type</i>         | (Optional) Producer Type                  |
| <i>flags</i>             | (Optional) Flags                          |
| <i>seq-num</i>           | (Optional) Sequence Number                |
| <i>next-hop1</i>         | (Optional) Next Hop 1                     |
| <i>next-hop2</i>         | (Optional) Next Hop 2                     |
| <i>fwd-state</i>         | (Optional) Forwarding State               |
| <i>res-pl-next-hop1</i>  | (Optional) Resultant PL Next hop1         |
| <i>res-pl-next-hop2</i>  | (Optional) Resultant PL Next hop2         |

|                   |                               |
|-------------------|-------------------------------|
| <i>rte-res</i>    | (Optional) Route Resolution   |
| <i>sent-to</i>    | (Optional) Active Clients     |
| <i>esi-id</i>     | (Optional) ESI ID             |
| <i>soo</i>        | (Optional) SOO                |
| <i>pcinfo</i>     | (Optional) Port-Channel Info  |
| <i>encap-type</i> | (Optional) Overlay encap type |

**Command Mode**

- /exec

## show l2route topology

```
show l2route topology [ <topo_id> ] [ detail ] [ __readonly__ TABLE_l2route_topology <topo-id> <topo-name>
<topo-type> [ <vni> ] [ <evi> ] [ <encap-type> ] [ <iod> ] [ <if-hdl> ] [ <vtep-ip> ] [ <emulated-ip> ] [
<emulated-ro-ip> ] [ <tx-id> ] [ <rcvd-flag> ] [ <rmac> ] [ <vrf-id> ] [ <vmac> ] [ <vmac-ro> ] [ <flags> ] [
<sub-flags> ] [ <prev-flags> ] ]
```

### Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information            |
| l2route                | Layer 2 routing information base           |
| topology               | Display topology IDs                       |
| <i>topo_id</i>         | (Optional) Enter Topology ID               |
| detail                 | (Optional) Detailed information            |
| <i>__readonly__</i>    | (Optional)                                 |
| TABLE_l2route_topology | (Optional) L2RIB Topology Table            |
| <i>topo-id</i>         | (Optional) Topology ID                     |
| <i>topo-name</i>       | (Optional) Topology Name                   |
| <i>topo-type</i>       | (Optional) Topology Type                   |
| <i>vni</i>             | (Optional) VNI                             |
| <i>evi</i>             | (Optional) EVI                             |
| <i>encap-type</i>      | (Optional) Encap Type                      |
| <i>iod</i>             | (Optional) IOD                             |
| <i>if-hdl</i>          | (Optional) Interface Handle                |
| <i>vtep-ip</i>         | (Optional) VTEP IP Address                 |
| <i>emulated-ip</i>     | (Optional) Emulated VTEP IP Address        |
| <i>emulated-ro-ip</i>  | (Optional) Emulated RO VTEP IP Address     |
| <i>tx-id</i>           | (Optional) Transaction ID for Topology Ack |
| <i>rcvd-flag</i>       | (Optional) Flag to Indicate Topology Ack   |
| <i>rmac</i>            | (Optional) Local Router MAC (For L3 VNIs)  |
| <i>vrf-id</i>          | (Optional) VRF ID (For L3 VNIs)            |
| <i>vmac</i>            | (Optional) Local Virtual MAC (For L3 VNIs) |

|                   |  |
|-------------------|--|
| <i>vmac-ro</i>    | (Optional) Local Virtual MAC Re-Orig(For Multi-site) |
| <i>flags</i>      | (Optional) Flags                                     |
| <i>sub-flags</i>  | (Optional) Sub Flags                                 |
| <i>prev-flags</i> | (Optional) Previous Flags                            |

**Command Mode**

- /exec

## show l2route topology

```
show l2route { mac-ip | openflow mac-ip } { topology <topo-id> | all } [ detail ] [ __readonly__
TABLE_l2route_mac_ip <topo-id> <mac-addr> <host-ip> <prod-type> <flags> <seq-num> <next-hop1> [
<next-hop2> ] [ <l3-info> ] [ <fwd-state> ] [ <rte-res> ] [ <sent-to> ] [ <peerid> ] [ <peer-ifindex> ] [ <esi-id>
] [ <soo> ] [ <pcinfo> ] [ <vrf-id> ] [ <encap-type> ] ]
```

### Syntax Description

|                      |                                      |
|----------------------|--------------------------------------|
| show                 | Show running system information      |
| l2route              | Layer 2 routing information base     |
| mac-ip               | MAC-IP Route                         |
| all                  | Display all routes without filtering |
| openflow             | openflow                             |
| topology             | Filter on topology ID                |
| <i>topo-id</i>       | topology ID                          |
| detail               | (Optional) Detailed information      |
| __readonly__         | (Optional)                           |
| TABLE_l2route_mac_ip | (Optional) L2RIB Mac-IP Table        |
| <i>topo-id</i>       | (Optional) Topology ID               |
| <i>mac-addr</i>      | (Optional) Mac Address               |
| <i>host-ip</i>       | (Optional) Host IP                   |
| <i>prod-type</i>     | (Optional) Producer Type             |
| <i>flags</i>         | (Optional) Flags                     |
| <i>seq-num</i>       | (Optional) Sequence Number           |
| <i>next-hop1</i>     | (Optional) Next Hop 1                |
| <i>next-hop2</i>     | (Optional) Next Hop 2                |
| <i>l3-info</i>       | (Optional) L3 Information            |
| <i>fwd-state</i>     | (Optional) Forwarding State          |
| <i>rte-res</i>       | (Optional) Route Resolution          |
| <i>sent-to</i>       | (Optional) Active Clients            |
| <i>peerid</i>        | (Optional) Peer ID                   |

|                     |   |
|---------------------|---|
| <i>peer-ifindex</i> | (Optional) Peer Interface Index         |
| <i>esi-id</i>       | (Optional) ESI ID                       |
| <i>soo</i>          | (Optional) SOO                          |
| <i>pcinfo</i>       | (Optional) Port-Channel Info            |
| <i>vrf-id</i>       | (Optional) vrf-id associated with route |
| <i>encap-type</i>   | (Optional) Ovaerlay encap type          |

**Command Mode**

- /exec

## show lacp counters

```
show lacp counters [ interface <if0> ] [ detail ] [ __readonly__ TABLE_interface <interface> TABLE_member
<port> <pdu-sent> <pdu-rcvd> <marker-rcvd> <marker-resp-sent> [ <marker-sent> ] [ <marker-resp-rcvd>
] <pkt-errors> [ <pdu-timeout-count> ] [ <flap-count> ] [ <illegal-rcvd> ] [ <unknown-rcvd> ] ]
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information                    |
| lacp                     | LACP protocol                                      |
| counters                 | LACP counters                                      |
| interface                | (Optional) Specify a port-channel                  |
| detail                   | (Optional) For more counters                       |
| <i>if0</i>               | (Optional)   |
| <i>__readonly__</i>      | (Optional)   |
| TABLE_interface          | (Optional) Port channel table                      |
| <i>interface</i>         | (Optional) Port channel                            |
| TABLE_member             | (Optional) Member port info                        |
| <i>port</i>              | (Optional) Member port                             |
| <i>pdu-sent</i>          | (Optional) Number of PDUs sent                     |
| <i>pdu-rcvd</i>          | (Optional) Number of PDUs received                 |
| <i>marker-sent</i>       | (Optional) Number of Marker PDUs sent              |
| <i>marker-rcvd</i>       | (Optional) Number of Marker PDUs received          |
| <i>marker-resp-sent</i>  | (Optional) Number of Marker response PDUs sent     |
| <i>marker-resp-rcvd</i>  | (Optional) Number of Marker response PDUs received |
| <i>pkt-errors</i>        | (Optional) Number of packet errors                 |
| <i>illegal-rcvd</i>      | (Optional) Number of illegal packets received      |
| <i>unknown-rcvd</i>      | (Optional) Number of unknown packets received      |
| <i>pdu-timeout-count</i> | (Optional) Number of PDU timeouts                  |
| <i>flap-count</i>        | (Optional) Number of flaps                         |

### Command Mode

- /exec



## show lacp interface

```
show lacp interface [ <if0> ] [ __readonly__ { TABLE_lacp_intf <interface> <operational-state>
<channel-group> <port-channel> <p dus-sent> <p dus-rcvd> <marker-sent> <marker-rcvd> <marker- resp-sent>
<marker- resp-rcvd> <unknown-rcvd> <illegal-rcvd> <lag-id> <active-time> { localport <local-interface>
<local-mac-address> <local-system-priority> <local-port-priority> <local-port-num> <local-op-key>
<local-activity> <local-timeout> <local-sync> <local-collecting> <local-distributing> <partner-info-timeout>
<local-admin-state> <local-oper-state> } { partnerport <partner-interface> <partner-mac-address>
<partner-system-priority> <partner-port-priority> <partner-port-num> <partner-op-key> <partner-activity>
<partner-timeout> <partner-sync> <partner-collecting> <partner-distributing> <partner-admin-state>
<partner-oper-state> } <agg-or-indiv> } ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information         |
| lacp                     | LACP protocol                           |
| interface                | Specify a interface                     |
| <i>if0</i>               | (Optional)                              |
| <i>__readonly__</i>      | (Optional)                              |
| TABLE_lacp_intf          | (Optional) Table of LACP interfaces     |
| <i>interface</i>         | (Optional) Interface ID                 |
| <i>channel-group</i>     | (Optional) Channel Group                |
| <i>port-channel</i>      | (Optional) Port Channel                 |
| <i>lag-id</i>            | (Optional) LAG Id                       |
| <i>active-time</i>       | (Optional) active-time                  |
| <i>operational-state</i> | (Optional) Operational State            |
| <i>agg-or-indiv</i>      | (Optional) Aggregate or individual port |
| <i>p dus-rcvd</i>        | (Optional) PDUs received                |
| <i>p dus-sent</i>        | (Optional) PDUs sent                    |
| <i>marker-rcvd</i>       | (Optional) Markers received             |
| <i>marker-sent</i>       | (Optional) Markers sent                 |
| <i>marker- resp-rcvd</i> | (Optional) Marker response received     |
| <i>marker- resp-sent</i> | (Optional) Marker response sent         |
| <i>unknown-rcvd</i>      | (Optional) Unknown p dus received       |

|                                |  |
|--------------------------------|--|
| <i>illegal-rcvd</i>            | (Optional) Illegal pdus received               |
| localport                      | (Optional) Local port information              |
| <i>local-interface</i>         | (Optional) Interface                           |
| <i>local-mac-address</i>       | (Optional) MAC Address                         |
| <i>local-system-priority</i>   | (Optional) System Priority                     |
| <i>local-port-priority</i>     | (Optional) Port Priority                       |
| <i>local-port-num</i>          | (Optional) Port Number                         |
| <i>local-op-key</i>            | (Optional) Operational Key                     |
| <i>local-admin-state</i>       | (Optional) Local Admin State                   |
| <i>local-oper-state</i>        | (Optional) Local Oper State                    |
| <i>local-activity</i>          | (Optional) Mode                                |
| <i>local-timeout</i>           | (Optional) Timeout                             |
| <i>local-sync</i>              | (Optional) Synchronization                     |
| <i>local-distributing</i>      | (Optional) Distributing                        |
| <i>local-collecting</i>        | (Optional) Collecting                          |
| <i>partner-info-timeout</i>    | (Optional) Partner information refresh timeout |
| partnerport                    | (Optional) Partner port information            |
| <i>partner-interface</i>       | (Optional) Partner Interface                   |
| <i>partner-mac-address</i>     | (Optional) Partner MAC Address                 |
| <i>partner-system-priority</i> | (Optional) Partner System Priority             |
| <i>partner-port-priority</i>   | (Optional) Partner Port Priority               |
| <i>partner-port-num</i>        | (Optional) Partner Port Number                 |
| <i>partner-op-key</i>          | (Optional) Operational Key                     |
| <i>partner-admin-state</i>     | (Optional) Partner Admin State                 |
| <i>partner-oper-state</i>      | (Optional) Partner Oper State                  |
| <i>partner-activity</i>        | (Optional) Mode                                |
| <i>partner-timeout</i>         | (Optional) Timeout                             |
| <i>partner-sync</i>            | (Optional) Synchronization                     |
| <i>partner-distributing</i>    | (Optional) Distributing                        |

|                           |                       |
|---------------------------|-----------------------|
| <i>partner-collecting</i> | (Optional) Collecting |
|---------------------------|-----------------------|

**Command Mode**

- /exec

# show lacp issu-impact

```
show lacp issu-impact [ __readonly__ TABLE_interface <interface> [ <failed_interface> ] [ <intf_issu_ready> ] ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                 |
| lacp                    | Show LACP information                           |
| issu-impact             | Check for ISSU readiness                        |
| __readonly__            | (Optional)                                      |
| TABLE_interface         | (Optional) Port-channel issu-impact member list |
| <i>interface</i>        | (Optional) Port-channel Member                  |
| <i>failed_interface</i> | (Optional) ISSU failed interface                |
| <i>intf_issu_ready</i>  | (Optional) interfaces ready for issu            |

## Command Mode

- /exec

# show lacp neighbor

```
show lacp neighbor [ interface <if0> ][ __readonly__ TABLE_interface <interface> TABLE_member <port>
<partner-system-id> <partner-port-num> <partner-age> <partner-flags> <partner-port-priority>
<partner-oper-key> <partner-port-state> ]
```

## Syntax Description

|                              |                                   |
|------------------------------|-----------------------------------|
| show                         | Show running system information   |
| lacp                         | LACP protocol                     |
| neighbor                     | LACP interface neighbor           |
| interface                    | (Optional) Specify a port-channel |
| <i>if0</i>                   | (Optional)                        |
| <i>__readonly__</i>          | (Optional)                        |
| TABLE_interface              | (Optional) Port channel table     |
| <i>interface</i>             | (Optional) Port channel           |
| TABLE_member                 | (Optional) Member port info       |
| <i>port</i>                  | (Optional) Member port            |
| <i>partner-system-id</i>     | (Optional) Partner System ID      |
| <i>partner-port-num</i>      | (Optional) Partner Port Number    |
| <i>partner-age</i>           | (Optional) Partner age            |
| <i>partner-flags</i>         | (Optional) Partner flags          |
| <i>partner-port-priority</i> | (Optional) Partner Port Priority  |
| <i>partner-oper-key</i>      | (Optional) Partner oper key       |
| <i>partner-port-state</i>    | (Optional) Partner port state     |

## Command Mode

- /exec

# show lacp port-channel

```
show lacp port-channel [ interface <if0> ] [ __readonly__ TABLE_interface <interface> <aggr-mac-address>
<local-system-priority> <local-system-id> <local-admin-key> <local-oper-key> <partner-system-priority>
<partner-system-id> <partner-oper-key> <max-delay> <agg-or-indiv> { <port-list> } + ]
```

## Syntax Description

|                                |  |
|--------------------------------|--|
| show                           | Show running system information                            |
| lacp                           | LACP protocol  |
| port-channel                   | LACP port-channels   |
| interface                      | (Optional) Specify a port-channel                          |
| <i>if0</i>                     | (Optional)   |
| <i>__readonly__</i>            | (Optional)   |
| <i>TABLE_interface</i>         | (Optional) Port channel table                              |
| <i>interface</i>               | (Optional) Port channel                                    |
| <i>aggr-mac-address</i>        | (Optional) Mac Address of aggregator                       |
| <i>local-system-priority</i>   | (Optional) Local System Priority                           |
| <i>local-system-id</i>         | (Optional) Local System-Id                                 |
| <i>local-admin-key</i>         | (Optional) Local admin key                                 |
| <i>local-oper-key</i>          | (Optional) Local oper key                                  |
| <i>partner-system-priority</i> | (Optional) Partner System Priority                         |
| <i>partner-system-id</i>       | (Optional) Partner System-Id                               |
| <i>partner-oper-key</i>        | (Optional) Partner oper key                                |
| <i>max-delay</i>               | (Optional) Maximum delay between aggregator and mac-client |
| <i>agg-or-indiv</i>            | (Optional) Aggregate or individual port                    |
| <i>port-list</i>               | (Optional) List of port names for member ports             |

## Command Mode

- /exec

# show lacp system-identifier

show lacp system-identifier [ \_\_readonly\_\_ <system-priority> <system-mac> ]

## Syntax Description

|                        |                                    |
|------------------------|------------------------------------|
| show                   | Show running system information    |
| lacp                   | LACP protocol                      |
| system-identifier      | Show system-identifier information |
| __readonly__           | (Optional)                         |
| <i>system-priority</i> | (Optional) System priority         |
| <i>system-mac</i>      | (Optional) System mac address      |

## Command Mode

- /exec

# show lcmd stats interface

show lcmd stats interface <interface>

## Syntax Description

|                  |   |
|------------------|---|
| show             | Show running system information           |
| lcmd             | lcmd                                      |
| stats            | statistics                                |
| interface        | get interface related stats at lcmd level |
| <i>interface</i> | Interface name to display                 |

## Command Mode

- /exec



# show ldap-search-map

```
show ldap-search-map [ __readonly__ { number_of_search_maps <search_map_count> } [
TABLE_ldap_searchmaps [ <map_name> <map_baseDN> <map_attr> <map_filter> ] ] ]
```

## Syntax Description

|                              |   |
|------------------------------|---|
| <i>__readonly__</i>          | (Optional)  |
| <i>number_of_search_maps</i> | (Optional) Total number of search maps configured |
| <i>search_map_count</i>      | (Optional) Ldap Search map count                  |
| <i>TABLE_ldap_searchmaps</i> | (Optional) Ldap search map configuration          |
| <i>map_name</i>              | (Optional) Search map name                        |
| <i>map_baseDN</i>            | (Optional) Ldap base DN                           |
| <i>map_attr</i>              | (Optional) Search map attribute                   |
| <i>map_filter</i>            | (Optional) Ldap Search filter                     |
| show                         | Show running system information                   |
| ldap-search-map              | Show LDAP configuration information               |

## Command Mode

- /exec

## show ldap-server

```
show ldap-server [ __readonly__ { global_timeout <g_timeout> } { global_port <g_port> } { global_deadtime
<g_deadtime> } { total_number_of_server <g_servers_count> } { TABLE_ldap_hosts <ldap_host>
<h_idletime> <h_test_user> <h_test_passwd> [ <h_test_dn> ] <h_timeout> <h_port> <h_rootDN>
<h_ssl_enable> <h_referral_disable> } ]
```

### Syntax Description

|                                     |  |
|-------------------------------------|--|
| <code>__readonly__</code>           | (Optional)                                       |
| <code>TABLE_ldap_hosts</code>       | (Optional) Ldap host configuration               |
| <code>global_timeout</code>         | (Optional) Ldap host global timeout              |
| <code>global_port</code>            | (Optional) Ldap host global port                 |
| <code>global_deadtime</code>        | (Optional) Ldap host global deadtime             |
| <code>total_number_of_server</code> | (Optional) Total number of ldap hosts configured |
| <code>g_servers_count</code>        | (Optional) Total number of ldap hosts configured |
| <code>g_timeout</code>              | (Optional) global timeout value                  |
| <code>g_port</code>                 | (Optional) Global ldap port                      |
| <code>g_deadtime</code>             | (Optional) Global deadtime value                 |
| <code>ldap_host</code>              | (Optional) Ldap host                             |
| <code>h_idletime</code>             | (Optional) Ldap host idletime                    |
| <code>h_test_user</code>            | (Optional) Ldap host testuser                    |
| <code>h_test_passwd</code>          | (Optional) Ldap host password                    |
| <code>h_test_dn</code>              | (Optional) Ldap testuser dn                      |
| <code>h_timeout</code>              | (Optional) Ldap host timeout                     |
| <code>h_port</code>                 | (Optional) Ldap host port                        |
| <code>h_rootDN</code>               | (Optional) Ldap host RootDN                      |
| <code>h_ssl_enable</code>           | (Optional) Ldap host ssl configuration           |
| <code>h_referral_disable</code>     | (Optional) Ldap host referral chasing disable    |
| <code>show</code>                   | Show running system information                  |
| <code>ldap-server</code>            | Show LDAP configuration information              |

### Command Mode

- /exec

## show ldap-server groups

```
show ldap-server groups [ __readonly__ { total_number_of_groups <total_groups_count> } { TABLE_groups
<g_name> <g_vrf> <g_mode> <is_bind_and_search> <g_append_with_baseDN> <g_compare_or_bind>
<g_cmp_passwd_attr> [ <user-server-group> ] [ <Cert-DN-match> ] <auth_mechanism> [ TABLE_g_servers
<g_server> <g_port> <g_timeout> ] [ <g_search_map> ] } ]
```

### Syntax Description

|                               |   |
|-------------------------------|---|
| show                          | Show running system information                       |
| ldap-server                   | Show LDAP configuration information                   |
| groups                        | Show LDAP server group configuration information      |
| <i>__readonly__</i>           | (Optional)  |
| <i>total_number_of_groups</i> | (Optional) Total number of Ldap groups configured     |
| <i>total_groups_count</i>     | (Optional) Ldap group count                           |
| TABLE_groups                  | (Optional) LDAP Group information                     |
| <i>g_name</i>                 | (Optional) Ldap group name                            |
| <i>g_vrf</i>                  | (Optional) LDAP group vrf                             |
| <i>g_mode</i>                 | (Optional) LDAP group mode                            |
| <i>is_bind_and_search</i>     | (Optional) Ldap Authentication bind or search         |
| <i>g_append_with_baseDN</i>   | (Optional) LDAP baseDN append information             |
| <i>g_compare_or_bind</i>      | (Optional) LDAP bind or compare                       |
| <i>g_cmp_passwd_attr</i>      | (Optional) LDAP compare password attribute            |
| <i>user-server-group</i>      | (Optional) Ldap server group validation               |
| <i>Cert-DN-match</i>          | (Optional) Ldap group CERT-DN match                   |
| <i>auth_mechanism</i>         | (Optional) Ldap server group authentication mechanism |
| TABLE_g_servers               | (Optional) LDAP group server information              |
| <i>g_server</i>               | (Optional) LDAP group host                            |
| <i>g_port</i>                 | (Optional) LDAP group host port                       |
| <i>g_timeout</i>              | (Optional) LDAP group host timeout                    |
| <i>g_search_map</i>           | (Optional) LDAP group search map                      |

### Command Mode

- /exec

## show ldap-server statistics

```
show ldap-server statistics <host0> [ __readonly__ { <server_state> [ <clock_time> { monitoring_statistics
<time_in_pstate> <ndead> <tt_in_dstate> } ] } { auth_statistics <auth_failed_transactions>
<auth_succ_transactions> <auth_req_sent> <auth_req_timedout> <auth_resp_no_match>
<auth_resp_not_processed> <auth_resp_error> } [ acct_statistics <acct_failed_transactions>
<acct_succ_transactions> <acct_req_sent> <acct_req_timedout> <acct_resp_no_match>
<acct_resp_not_processed> <acct_resp_error> } ] ]
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information                                   |
| ldap-server                     | Show LDAP configuration information                               |
| statistics                      | Show LDAP statistics  |
| <i>host0</i>                    | DNS name or IP address  |
| <i>__readonly__</i>             | (Optional)  |
| <i>server_state</i>             | (Optional) Show state of server                                   |
| <i>clock_time</i>               | (Optional) Show clock time in terms of hours, minutes and seconds |
| monitoring_statistics           | (Optional) Monitoring Statistics                                  |
| <i>time_in_pstate</i>           | (Optional) Time in previous state                                 |
| <i>ndead</i>                    | (Optional) Number of times dead                                   |
| <i>tt_in_dstate</i>             | (Optional) Total time in dead state                               |
| auth_statistics                 | (Optional) Authentication Statistics                              |
| acct_statistics                 | (Optional) Accounting Statistics                                  |
| <i>auth_failed_transactions</i> | (Optional) Authentication: Failed transactions                    |
| <i>auth_succ_transactions</i>   | (Optional) Authentication: Successful transactions                |
| <i>auth_req_sent</i>            | (Optional) Authentication: Requests sent                          |
| <i>auth_req_timedout</i>        | (Optional) Authentication: Requests timedout                      |
| <i>auth_resp_no_match</i>       | (Optional) Authentication: Responses with no matching requests    |
| <i>auth_resp_not_processed</i>  | (Optional) Authentication: Responses not processed                |
| <i>auth_resp_error</i>          | (Optional) Authentication: Responses containing errors            |
| <i>acct_failed_transactions</i> | (Optional) Accounting: Failed transactions                        |
| <i>acct_succ_transactions</i>   | (Optional) Accounting: Successful transactions                    |

|                                |  |
|--------------------------------|--|
| <i>acct_req_sent</i>           | (Optional) Accounting: Requests sent                       |
| <i>acct_req_timedout</i>       | (Optional) Accounting: Requests timedout                   |
| <i>acct_resp_no_match</i>      | (Optional) Accounting: Responses with no matching requests |
| <i>acct_resp_not_processed</i> | (Optional) Accounting: Responses not processed             |
| <i>acct_resp_error</i>         | (Optional) Accounting: Responses containing errors         |

**Command Mode**

- /exec

# show license

```
show license [ __readonly__ { [ <lic_file_name> <lic_file_contents> ] + } ]
```

## Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information            |
| license                  | show the contents of all the license files |
| __readonly__             | (Optional) Read only                       |
| <i>lic_file_name</i>     | (Optional) Name of the license file        |
| <i>lic_file_contents</i> | (Optional) License file contents           |

## Command Mode

- /exec



# show license brief

```
show license brief [ __readonly__ { [ <lic_file_name> ] + } ]
```

## Syntax Description

|                      |  |
|----------------------|--|
| show                 | Show running system information            |
| license              | show the contents of all the license files |
| brief                | Show a list of license files               |
| __readonly__         | (Optional) Read only                       |
| <i>lic_file_name</i> | (Optional) Name of the license file        |

## Command Mode

- /exec

# show license default

```
show license default [ __readonly__ { TABLE_lic_default <feature_name> <def_lic_count> } ]
```

## Syntax Description

|                      |  |
|----------------------|--|
| show                 | Show running system information            |
| license              | show the contents of all the license files |
| default              | Show services using default license        |
| <i>__readonly__</i>  | (Optional) Read Only                       |
| <i>feature_name</i>  | (Optional) Licensed Feature Name           |
| TABLE_lic_default    | (Optional)                                 |
| <i>def_lic_count</i> | (Optional) Default License Count           |

## Command Mode

- /exec

## show license feature package mapping

```
show license feature package mapping [ __readonly__ { [ <app_name> [ <lc_type> <flags> <pkg_name>
<version> ]+ ]+ ] [ <null_map> ] } ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                   |
| license             | show the contents of all the license files        |
| feature             | Show application name                             |
| package             | Show license package name                         |
| mapping             | Show mapping between application and package name |
| <i>__readonly__</i> | (Optional) Read only                              |
| <i>app_name</i>     | (Optional) Name of the application                |
| <i>lc_type</i>      | (Optional) Lincard type                           |
| <i>flags</i>        | (Optional) Are all licenses required              |
| <i>pkg_name</i>     | (Optional) License Package Name                   |
| <i>version</i>      | (Optional) License version                        |
| <i>null_map</i>     | (Optional) No mappings defined                    |

### Command Mode

- /exec

# show license file

```
show license file <license-file> [ __readonly__ { [ <lic_file_contents> ] + } ]
```

## Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information   |
| license                  | Show the contents of all the license files  |
| file                     | Show contents of a license file   |
| <i>license-file</i>      | Show the contents of license file __nil__ Please install a license before using this command. |
| __readonly__             | (Optional) Read only  |
| <i>lic_file_contents</i> | (Optional) License file contents  |

## Command Mode

- /exec

# show license host-id

```
show license host-id [ __readonly__ { <host_id> } ]
```

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                  |
| license        | show the contents of all the license files       |
| host-id        | Show unique id for this host for licensing       |
| __readonly__   | (Optional) Read only                             |
| <i>host_id</i> | (Optional) unique id for this host for licensing |

## Command Mode

- /exec

# show license tech support

show license tech support

## Syntax Description

|         |  |
|---------|--|
| show    | show commands                          |
| license | Display licensing information          |
| tech    | Gather information for troubleshooting |
| support | Gather information for troubleshooting |

## Command Mode

- /exec

# show license usage

```
show license usage [ { detail | <license-feature> } ] [ __readonly__ { [ [ TABLE_show_lic_usage {
<feature_name> <lic_installed> <count> <status> <expiry_date> <comments> } ] { [ <application_name> ]
+ } ] ] [ <auth_status> [ TABLE_show_smart_lic_usage { <smart_feature_name> <smart_description>
<smart_count> <smart_version> <smart_status> } ] ] } ]
```

## Syntax Description

|                                   |  |
|-----------------------------------|--|
| show                              | Show running system information                      |
| license                           | show the contents of all the license files           |
| usage                             | Show license usage table                             |
| detail                            | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED            |
| <i>license-feature</i>            | (Optional) Show usage of this license package        |
| <i>__readonly__</i>               | (Optional) Read only                                 |
| <i>TABLE_show_lic_usage</i>       | (Optional) License usage                             |
| <i>feature_name</i>               | (Optional) Name of the feature                       |
| <i>lic_installed</i>              | (Optional) Is the license installed?                 |
| <i>count</i>                      | (Optional) License count                             |
| <i>status</i>                     | (Optional) License status                            |
| <i>expiry_date</i>                | (Optional) Expiry date of the license                |
| <i>comments</i>                   | (Optional) License comments                          |
| <i>application_name</i>           | (Optional) Name of the application using the license |
| <i>auth_status</i>                | (Optional) Brief about smart license usage           |
| <i>TABLE_show_smart_lic_usage</i> | (Optional) Smart License usage                       |
| <i>smart_feature_name</i>         | (Optional) Name of the feature                       |
| <i>smart_description</i>          | (Optional) Description of the entitlement            |
| <i>smart_count</i>                | (Optional) License count                             |
| <i>smart_version</i>              | (Optional) License version                           |
| <i>smart_status</i>               | (Optional) License status                            |

## Command Mode

- /exec

# show line

```
show line [ __readonly__ <speed> <databits> <stopbits> <parity> <modem_in> <modem_init_str> <stat> [
TABLE_ps_output <ps> ] [ <speed_aux> <databits_aux> <stopbits_aux> <parity_aux> <modem_in_aux>
<modem_init_str_aux> <hw_fc_aux> <stat_aux> [ TABLE_ps_output_aux <ps_aux> ] ] ]
```

## Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information           |
| line                      | Show the line configuration               |
| __readonly__              | (Optional)                                |
| TABLE_ps_output           | (Optional) Process info for console login |
| TABLE_ps_output_aux       | (Optional) Process info for com1 login    |
| <i>speed</i>              | (Optional) Port speed(baud)               |
| <i>databits</i>           | (Optional) Bits per byte                  |
| <i>stopbits</i>           | (Optional) Bits                           |
| <i>parity</i>             | (Optional) Parity                         |
| <i>modem_in</i>           | (Optional) Modem In                       |
| <i>modem_init_str</i>     | (Optional) Modem Init-String              |
| <i>stat</i>               | (Optional) Statistics                     |
| <i>ps</i>                 | (Optional) Login process                  |
| <i>speed_aux</i>          | (Optional) Port speed(baud)               |
| <i>databits_aux</i>       | (Optional) Bits per byte                  |
| <i>stopbits_aux</i>       | (Optional) Bits                           |
| <i>parity_aux</i>         | (Optional) Parity                         |
| <i>modem_in_aux</i>       | (Optional) Modem In                       |
| <i>modem_init_str_aux</i> | (Optional) Modem Init-String              |
| <i>hw_fc_aux</i>          | (Optional) Hardware Flowcontrol           |
| <i>stat_aux</i>           | (Optional) Statistics                     |
| <i>ps_aux</i>             | (Optional) Login process                  |

## Command Mode

- /exec



# show line console

```
show line console [ __readonly__ <speed> <databits> <stopbits> <parity> <modem_in> <modem_init_str>
<stat> [ TABLE_ps_output <ps> ] ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information           |
| line                  | Show the line configuration               |
| console               | Show console line configurations          |
| __readonly__          | (Optional)                                |
| TABLE_ps_output       | (Optional) Process info for console login |
| <i>speed</i>          | (Optional) Port speed(baud)               |
| <i>databits</i>       | (Optional) Bits per byte                  |
| <i>stopbits</i>       | (Optional) Bits                           |
| <i>parity</i>         | (Optional) Parity                         |
| <i>modem_in</i>       | (Optional) Modem In                       |
| <i>modem_init_str</i> | (Optional) Modem Init-String              |
| <i>stat</i>           | (Optional) Statistics                     |
| <i>ps</i>             | (Optional) Login process                  |

## Command Mode

- /exec

# show line console connected

show line console connected [ \_\_readonly\_\_ <output> ]

## Syntax Description

|               |   |
|---------------|---|
| show          | Show running system information                         |
| line          | Show the line configuration                             |
| console       | Show console line configurations                        |
| connected     | Show whether the line is currently connected physically |
| __readonly__  | (Optional)  |
| <i>output</i> | (Optional) output string                                |

## Command Mode

- /exec

# show line console user-input-string

```
show line console user-input-string [ __readonly__ <input> ]
```

## Syntax Description

|                   |                                  |
|-------------------|----------------------------------|
| show              | Show running system information  |
| line              | Show the line configuration      |
| console           | Show console line configurations |
| user-input-string | Show user-input init string      |
| __readonly__      | (Optional)                       |
| <i>input</i>      | (Optional) user input string     |

## Command Mode

- /exec

# show lisp ddt

```
show lisp ddt [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information         |
| lisp                  | LISP show commands                      |
| ddt                   | LISP Delegated Database Tree (LISP-DDT) |
| vrf                   | (Optional) Display information for vrf  |
| <i>vrf-name</i>       | (Optional) VRF name                     |
| <i>vrf-known-name</i> | (Optional) Known VRF name               |

## Command Mode

- /exec

# show lisp ddt queue

```
show lisp ddt queue [ [ instance-id <iid> ] { <eid> | <eid6> } ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                    |
| lisp                  | LISP show commands                                 |
| ddt                   | LISP Delegated Database Tree (LISP-DDT)            |
| queue                 | Display LISP-DDT Map-Request queue in Map-Resolver |
| instance-id           | (Optional) Show instance-ID summary display        |
| <i>iid</i>            | (Optional) Instance-ID for EID-prefix              |
| <i>eid</i>            | (Optional) IPv4 EID address                        |
| vrf                   | (Optional) Display information for vrf             |
| <i>vrf-name</i>       | (Optional) VRF name                                |
| <i>vrf-known-name</i> | (Optional) Known VRF name                          |

## Command Mode

- /exec

## show lisp ddt referral-cache

```
{ show lisp ddt referral-cache [ [ instance-id <iid> ] { <eid> | <eid6> } ] [ vrf { <vrf-name> | <vrf-known-name> } ] ] | { show lisp ddt referral-cache { ms-ack | ms-referral | node-referral | ms-not-registered | delegation-hole | not-authoritative } [ vrf { <vrf-name> | <vrf-known-name> } ] }
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                   |
| lisp                  | LISP show commands                                |
| ddt                   | LISP Delegated Database Tree (LISP-DDT)           |
| referral-cache        | Display LISP-DDT referral cache                   |
| instance-id           | (Optional) Show instance-ID summary display       |
| <i>iid</i>            | (Optional) Instance-ID for EID-prefix             |
| <i>eid</i>            | (Optional) IPv4 EID address                       |
| ms-ack                | Referral cache entries to map-servers             |
| ms-referral           | Referral cache entries from parent of map-servers |
| node-referral         | Referral cache entries from parent of DDT-nodes   |
| ms-not-registered     | Referral cache entries from map-servers           |
| delegation-hole       | Referral cache entries from any DDT-node          |
| not-authoritative     | Referral cache entries from any DDT-node          |
| vrf                   | (Optional) Display information for vrf            |
| <i>vrf-name</i>       | (Optional) VRF name                               |
| <i>vrf-known-name</i> | (Optional) Known VRF name                         |

### Command Mode

- /exec

# show lisp dynamic-eid

```
{ show lisp dynamic-eid { summary | { [ <dyn-eid-name> ] [ detail ] } } [ vrf { <vrf-name> | <vrf-known-name> } ] }
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                     |
| lisp                  | LISP show commands                                  |
| dynamic-eid           | Display dynamic-EIDs configured and discovered      |
| summary               | One-line summary display of discovered dynamic-EIDs |
| <i>dyn-eid-name</i>   | (Optional) Display a single dynamic-EID             |
| vrf                   | (Optional) Display information for vrf              |
| <i>vrf-name</i>       | (Optional) VRF name                                 |
| <i>vrf-known-name</i> | (Optional) Known VRF name                           |
| detail                | (Optional) Display discovered dynamic-EIDs          |

## Command Mode

- /exec

# show lisp elp

```
show lisp elp [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                |
| lisp                  | LISP show commands                             |
| elp                   | Display LISP Explicit Locator Paths configured |
| vrf                   | (Optional) Display information for vrf         |
| <i>vrf-name</i>       | (Optional) VRF name                            |
| <i>vrf-known-name</i> | (Optional) Known VRF name                      |

## Command Mode

- /exec



# show lisp negative-prefix

```
show lisp negative-prefix { <eid> | <eid6> } [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information               |
| lisp                  | LISP show commands                            |
| negative-prefix       | Compute negative-prefix for hole in EID space |
| <i>eid</i>            | IPv4 EID address                              |
| vrf                   | (Optional) Display information for vrf        |
| <i>vrf-name</i>       | (Optional) VRF name                           |
| <i>vrf-known-name</i> | (Optional) Known VRF name                     |

## Command Mode

- /exec

# show lisp proxy-itr

```
show lisp proxy-itr [ vrf { <vrf-name> | <vrf-known-name> } ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information        |
| lisp                  | LISP show commands                     |
| proxy-itr             | Display discovered proxy-ITRs (PITRs)  |
| vrf                   | (Optional) Display information for vrf |
| <i>vrf-name</i>       | (Optional) VRF name                    |
| <i>vrf-known-name</i> | (Optional) Known VRF name              |

## Command Mode

- /exec

# show lisp site

```
{ show lisp site [ { { <eid> | <eid6> } [ instance-id <iid> ] } | { { <eid-prefix> | <eid-prefix6> } [ instance-id <iid> ] } | <site-name> ] [ detail ] [ vrf { <vrf-name> | <vrf-known-name> } ] }
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                        |
| lisp                  | LISP show commands                                     |
| site                  | Display Map-Server site EID-prefixes configured        |
| vrf                   | (Optional) Display information for vrf                 |
| <i>vrf-name</i>       | (Optional) VRF name                                    |
| <i>vrf-known-name</i> | (Optional) Known VRF name                              |
| <i>eid</i>            | (Optional) Display mapping for IP destination EID      |
| <i>eid-prefix</i>     | (Optional) Display exact match for IP EID-prefix entry |
| instance-id           | (Optional) Instance EID-prefix registered in           |
| <i>iid</i>            | (Optional) Instance-ID value                           |
| <i>site-name</i>      | (Optional) Display a single site                       |
| detail                | (Optional) Display allowed registered locator sources  |

## Command Mode

- /exec

# show lisp site instance-id

```
{ show lisp site instance-id [ <iid> ] [ vrf { <vrf-name> | <vrf-known-name> } ] }
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                            |
| lisp                  | LISP show commands   |
| site                  | Display Map-Server site EID-prefixes configured            |
| instance-id           | Show instance-ID summary display                           |
| <i>iid</i>            | (Optional) Show detail for entries of a single Instance-ID |
| vrf                   | (Optional) Display information for vrf                     |
| <i>vrf-name</i>       | (Optional) VRF name  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                  |

## Command Mode

- /exec

# show lldp all

show lldp all [ *\_\_readonly\_\_* *TABLE\_lldp\_all* <*intf\_desc*> <*lldp\_tx*> <*lldp\_rx*> <*lldp\_dcbx*> ]

## Syntax Description

|                       |                                      |
|-----------------------|--------------------------------------|
| show                  | Show running system information      |
| lldp                  | Show lldp Protocol information       |
| all                   | Show all interfaces in lldp database |
| <i>__readonly__</i>   | (Optional) Read only                 |
| <i>TABLE_lldp_all</i> | (Optional) output of show lldp all   |
| <i>intf_desc</i>      | (Optional) Interface desc            |
| <i>lldp_tx</i>        | (Optional) lldp tx status            |
| <i>lldp_rx</i>        | (Optional) lldp rx status            |
| <i>lldp_dcbx</i>      | (Optional) lldp dcbx status          |

## Command Mode

- /exec

## show lldp dcbx interface

```
show lldp dcbx interface <if_in> [ __readonly__ <if_out> <cfg_proto> <det_proto> [ <l_op_ver> <l_max_ver>
<l_seq_no> <l_ack_no> ] [ <l_feature> <l_feat_len> <l_cfg> ] + [ <p_op_ver> <p_max_ver> <p_seq_no>
<p_ack_no> ] [ <p_tlv_type> <p_tlv_ctrl> <p_tlv_len> <p_tlv_value> ] + ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                 |
| lldp                | Show information about lldp                     |
| dcbx                | Show dcbx information                           |
| interface           | Show lldp interface information                 |
| <i>if_in</i>        | Enter interface                                 |
| <i>__readonly__</i> | (Optional)                                      |
| <i>if_out</i>       | (Optional) Interface ID                         |
| <i>cfg_proto</i>    | (Optional) Configured DCBX Protocol             |
| <i>det_proto</i>    | (Optional) DCBX Protocol detected               |
| <i>l_op_ver</i>     | (Optional) local dcbx control operation version |
| <i>l_max_ver</i>    | (Optional) local dcbx control maximum version   |
| <i>l_seq_no</i>     | (Optional) local dcbx control seq no            |
| <i>l_ack_no</i>     | (Optional) local dcbx control ack no            |
| <i>l_feature</i>    | (Optional) local feature                        |
| <i>l_feat_len</i>   | (Optional) Local Feature Length                 |
| <i>l_cfg</i>        | (Optional) local feature config                 |
| <i>p_op_ver</i>     | (Optional) peer dcbx control operation version  |
| <i>p_max_ver</i>    | (Optional) peer dcbx control maximum version    |
| <i>p_seq_no</i>     | (Optional) peer dcbx control seq no             |
| <i>p_ack_no</i>     | (Optional) peer dcbx control ack no             |
| <i>p_tlv_type</i>   | (Optional) peer TLV type field                  |
| <i>p_tlv_ctrl</i>   | (Optional) peer TLV control info                |
| <i>p_tlv_len</i>    | (Optional) Peer TLV Length                      |
| <i>p_tlv_value</i>  | (Optional) peer TLV value field                 |

**Command Mode**

- /exec

# show lldp entry

```
show lldp entry [ <sys-name> ] [ __readonly__ { <neigh_hdr> } { TABLE_entry <chassis_type> <chassis_id>
<port_type> <port_id> <l_port_id> <port_desc> <sys_name> <sys_desc> <ttl> <capability>
<mgmt_addr_type> <mgmt_addr> <mgmt_addr_ipv6_type> <mgmt_addr_ipv6> <vlan_id> } { <neigh_count>
} ]
```

## Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information         |
| lldp                       | Show information about lldp             |
| entry                      | Show lldp entry information             |
| <i>sys-name</i>            | (Optional) WORD Peer's System name      |
| <i>__readonly__</i>        | (Optional)                              |
| <i>neigh_hdr</i>           | (Optional)                              |
| TABLE_entry                | (Optional) Table Entry                  |
| <i>chassis_type</i>        | (Optional) Chassis ID type              |
| <i>chassis_id</i>          | (Optional) Chassis ID                   |
| <i>port_type</i>           | (Optional) Port ID type                 |
| <i>port_id</i>             | (Optional) Port ID                      |
| <i>l_port_id</i>           | (Optional) Port ID                      |
| <i>port_desc</i>           | (Optional) Port description             |
| <i>sys_name</i>            | (Optional) System name                  |
| <i>sys_desc</i>            | (Optional) System description           |
| <i>ttl</i>                 | (Optional) Time to live                 |
| <i>capability</i>          | (Optional) Capability                   |
| <i>mgmt_addr_type</i>      | (Optional) Management Address type      |
| <i>mgmt_addr</i>           | (Optional) Management Address           |
| <i>mgmt_addr_ipv6_type</i> | (Optional) IPV6 Management Address type |
| <i>mgmt_addr_ipv6</i>      | (Optional) IPV6 Management Address      |
| <i>vlan_id</i>             | (Optional) Vlan ID                      |
| <i>neigh_count</i>         | (Optional)                              |



**Command Mode**

- /exec

## show lldp interface

```
show lldp interface <if0> [ __readonly__ <interface> <tx_en> <rx_en> <dcbx_en> <port_mac> [ <tlv_type>
<tlv_len> [ <tlv_value> ] ] + [ <l_op_ver> <l_max_ver> <l_seq_no> <l_ack_no> [ <l_feature> <l_cfg_len>
<l_cfg> ] + ] [ <p_op_ver> <p_max_ver> <p_seq_no> <p_ack_no> [ <p_tlv_type> <p_tlv_len> <p_tlv_value>
] + ] ]
```

### Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                  |
| lldp                | Show information about lldp                      |
| interface           | Show lldp interface information                  |
| <i>if0</i>          | Enter interface                                  |
| <i>__readonly__</i> | (Optional)                                       |
| <i>interface</i>    | (Optional) Interface ID                          |
| <i>tx_en</i>        | (Optional) tx enable                             |
| <i>rx_en</i>        | (Optional) rx enable                             |
| <i>dcbx_en</i>      | (Optional) dcbox enable                          |
| <i>port_mac</i>     | (Optional) Port mac address                      |
| <i>tlv_type</i>     | (Optional) TLV type field                        |
| <i>tlv_len</i>      | (Optional) TLV len field                         |
| <i>tlv_value</i>    | (Optional) TLV value field                       |
| <i>l_op_ver</i>     | (Optional) local dcbox control operation version |
| <i>l_max_ver</i>    | (Optional) local dcbox control maximum version   |
| <i>l_seq_no</i>     | (Optional) local dcbox control seq no            |
| <i>l_ack_no</i>     | (Optional) local dcbox control ack no            |
| <i>l_feature</i>    | (Optional) local feature                         |
| <i>l_cfg_len</i>    | (Optional) local feature config length           |
| <i>l_cfg</i>        | (Optional) local feature config                  |
| <i>p_op_ver</i>     | (Optional) peer dcbox control operation version  |
| <i>p_max_ver</i>    | (Optional) peer dcbox control maximum version    |
| <i>p_seq_no</i>     | (Optional) peer dcbox control seq no             |

|                    |                                     |
|--------------------|-------------------------------------|
| <i>p_ack_no</i>    | (Optional) peer dcbx control ack no |
| <i>p_tlv_type</i>  | (Optional) peer TLV type field      |
| <i>p_tlv_len</i>   | (Optional) peer TLV len field       |
| <i>p_tlv_value</i> | (Optional) peer TLV value field     |

**Command Mode**

- /exec

## show lldp neighbors

```
show lldp neighbors [ interface <if> ] [ __readonly__ { <neigh_hdr> } { TABLE_nbor <chassis_type>
<chassis_id> <l_port_id> <hold_time> [ <capability> ] <system_capability> <enabled_capability> <port_type>
<port_id> <mgmt_addr_type> <mgmt_addr> <mgmt_addr_ipv6_type> <mgmt_addr_ipv6> } { <neigh_count>
} ]
```

### Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information                           |
| lldp                       | Show information about lldp                               |
| neighbors                  | Show lldp neighbor information                            |
| interface                  | (Optional) Show lldp neighbor information on an interface |
| <i>if</i>                  | (Optional) Enter interface                                |
| <i>__readonly__</i>        | (Optional)  |
| <i>neigh_hdr</i>           | (Optional)  |
| TABLE_nbor                 | (Optional) Neighbor Table                                 |
| <i>chassis_type</i>        | (Optional) Chassis ID type                                |
| <i>chassis_id</i>          | (Optional) Chassis ID                                     |
| <i>l_port_id</i>           | (Optional) Local port ID                                  |
| <i>hold_time</i>           | (Optional) Hold time                                      |
| <i>capability</i>          | (Optional) Capability                                     |
| <i>system_capability</i>   | (Optional) System Capability                              |
| <i>enabled_capability</i>  | (Optional) Enabled Capability                             |
| <i>port_type</i>           | (Optional) Port ID type                                   |
| <i>port_id</i>             | (Optional) Port ID  |
| <i>mgmt_addr_type</i>      | (Optional) Management Address type                        |
| <i>mgmt_addr</i>           | (Optional) Management Address                             |
| <i>mgmt_addr_ipv6_type</i> | (Optional) IPV6 Management Address type                   |
| <i>mgmt_addr_ipv6</i>      | (Optional) IPV6 Management Address                        |
| <i>neigh_count</i>         | (Optional)  |

### Command Mode

- /exec

## show lldp neighbors detail

```
show lldp neighbors [ interface <if> ] detail [ __readonly__ { <neigh_hdr> } { TABLE_nbor_detail
<chassis_type> <chassis_id> <port_type> <port_id> <l_port_id> <port_desc> <sys_name> <sys_desc> <ttl>
[ <capability> ] <system_capability> <enabled_capability> <mgmt_addr_type> <mgmt_addr>
<mgmt_addr_ipv6_type> <mgmt_addr_ipv6> <vlan_id> } { <neigh_count> } ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information                           |
| lldp                      | Show information about lldp                               |
| neighbors                 | Show lldp neighbor information                            |
| interface                 | (Optional) Show lldp neighbor information on an interface |
| <i>if</i>                 | (Optional) Enter interface                                |
| detail                    | Show lldp neighbor detail information                     |
| <i>__readonly__</i>       | (Optional)  |
| <i>neigh_hdr</i>          | (Optional)  |
| TABLE_nbor_detail         | (Optional) Neighbor detail Table                          |
| <i>chassis_type</i>       | (Optional) Chassis ID type                                |
| <i>chassis_id</i>         | (Optional) Chassis ID                                     |
| <i>port_type</i>          | (Optional) Port ID type                                   |
| <i>port_id</i>            | (Optional) Port ID  |
| <i>l_port_id</i>          | (Optional) Port ID  |
| <i>port_desc</i>          | (Optional) Port description                               |
| <i>sys_name</i>           | (Optional) System name                                    |
| <i>sys_desc</i>           | (Optional) System description                             |
| <i>ttl</i>                | (Optional) Time to live                                   |
| <i>capability</i>         | (Optional) Capability                                     |
| <i>system_capability</i>  | (Optional) System Capability                              |
| <i>enabled_capability</i> | (Optional) Enabled Capability                             |
| <i>mgmt_addr_type</i>     | (Optional) Management Address type                        |
| <i>mgmt_addr</i>          | (Optional) Management Address                             |

|                            |   |
|----------------------------|---|
| <i>mgmt_addr_ipv6_type</i> | (Optional) IPV6 Management Address type |
| <i>mgmt_addr_ipv6</i>      | (Optional) IPV6 Management Address      |
| <i>vlan_id</i>             | (Optional) Vlan ID                      |
| <i>neigh_count</i>         | (Optional)                              |

**Command Mode**

- /exec

## show lldp neighbors system-detail

```
show lldp neighbors [ interface <if> ] system-detail [ __readonly__ { <neigh_hdr> } { TABLE_nbor_sys_detail
<sys_type> <sys_name> <l_port_id> <chassis_type> <chassis_id> <port_type> <port_id> <ttl> <capability>
<mgmt_addr_type> <mgmt_addr> } { <neigh_count> } ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                           |
| lldp                  | Show information about lldp                               |
| neighbors             | Show lldp neighbor information                            |
| interface             | (Optional) Show lldp neighbor information on an interface |
| <i>if</i>             | (Optional) Enter interface                                |
| system-detail         | Show lldp neighbor system detail information              |
| <i>__readonly__</i>   | (Optional)  |
| <i>neigh_hdr</i>      | (Optional)  |
| TABLE_nbor_sys_detail | (Optional) Neighbor sys-detail Table                      |
| <i>sys_type</i>       | (Optional) System Type                                    |
| <i>sys_name</i>       | (Optional) System Name                                    |
| <i>l_port_id</i>      | (Optional) Local port ID                                  |
| <i>chassis_type</i>   | (Optional) Chassis ID type                                |
| <i>chassis_id</i>     | (Optional) Chassis ID                                     |
| <i>port_type</i>      | (Optional) Port ID type                                   |
| <i>port_id</i>        | (Optional) Port ID  |
| <i>ttl</i>            | (Optional) Time to live                                   |
| <i>capability</i>     | (Optional) Capability                                     |
| <i>mgmt_addr_type</i> | (Optional) Management Address type                        |
| <i>mgmt_addr</i>      | (Optional) Management Address                             |
| <i>neigh_count</i>    | (Optional)  |

### Command Mode

- /exec



# show lldp portid-subtype

show lldp portid-subtype [ \_\_readonly\_\_ <portid\_subtype> ]

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                 |
| lldp                  | Show information about lldp                     |
| portid-subtype        | Show lldp portid-subtype                        |
| __readonly__          | (Optional)                                      |
| <i>portid_subtype</i> | (Optional) portid-subtype for LLDP TLV and MIBs |

## Command Mode

- /exec

# show lldp timers

```
show lldp timers [ __readonly__ <ttl> <reinit> <tx_interval> <tx_delay> <hold_mplier> <notification_interval> ]
```

## Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information                         |
| lldp                         | Show information about lldp                             |
| timers                       | Show lldp timers  |
| <i>__readonly__</i>          | (Optional)  |
| <i>ttl</i>                   | (Optional) Time to Live for lldp info                   |
| <i>reinit</i>                | (Optional) Interface reinit timer                       |
| <i>tx_interval</i>           | (Optional) Wait interval between successive transmit    |
| <i>tx_delay</i>              | (Optional) Delay between successive frame transmissions |
| <i>hold_mplier</i>           | (Optional) Hold multiplier for ttl                      |
| <i>notification_interval</i> | (Optional) Notification interval for SNMP trap          |

## Command Mode

- /exec

## show lldp tlv-select

```
show lldp tlv-select [ __readonly__ <management-address-v4> <management-address-v6> <port-description>
<port-vlan> <power-management> <system-capabilities> <system-description> <system-name>
<dcbxp-cin-cee> [ <dcbxp-cn> ] [ <dcbxp-ets-cfg> ] [ <dcbxp-ets-reco> ] [ <dcbxp-pfc-cfg> ] [
<dcbxp-app-pri> ] [ <dcbxp-app-vlan> ] ]
```

### Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information             |
| lldp                         | Show information about lldp                 |
| tlv-select                   | Show lldp tlv-select                        |
| <i>__readonly__</i>          | (Optional)                                  |
| <i>management-address-v4</i> | (Optional) Management address v4            |
| <i>management-address-v6</i> | (Optional) Management address v6            |
| <i>port-description</i>      | (Optional) Port description                 |
| <i>port-vlan</i>             | (Optional) Port vlan                        |
| <i>power-management</i>      | (Optional) IEEE 802.3 DTE Power via MDI TLV |
| <i>system-capabilities</i>   | (Optional) System capabilities              |
| <i>system-description</i>    | (Optional) System description               |
| <i>system-name</i>           | (Optional) System name                      |
| <i>dcbxp-cin-cee</i>         | (Optional) DCBXP CIN or CEE                 |
| <i>dcbxp-cn</i>              | (Optional) DCBXP Congestion Notification    |
| <i>dcbxp-ets-cfg</i>         | (Optional) DCBXP ETS Configuration          |
| <i>dcbxp-ets-reco</i>        | (Optional) DCBXP ETS Recommendation         |
| <i>dcbxp-pfc-cfg</i>         | (Optional) DCBXP PFC Configuration          |
| <i>dcbxp-app-pri</i>         | (Optional) DCBXP Application Priorities     |
| <i>dcbxp-app-vlan</i>        | (Optional) DCBXP Application VLAN's         |

### Command Mode

- /exec

# show lldp traffic

```
show lldp traffic [ __readonly__ <tx_cnt> <aged_cnt> <rx_cnt> <rx_err> <disc_cnt> <unrecognized_tlv>
<flap_cnt> ]
```

## Syntax Description

|                         |                                   |
|-------------------------|-----------------------------------|
| show                    | Show running system information   |
| lldp                    | Show information about lldp       |
| traffic                 | Show lldp counters                |
| <i>__readonly__</i>     | (Optional)                        |
| <i>tx_cnt</i>           | (Optional) Transmit count         |
| <i>aged_cnt</i>         | (Optional) Aged out count         |
| <i>rx_cnt</i>           | (Optional) Received count         |
| <i>rx_err</i>           | (Optional) Received error count   |
| <i>disc_cnt</i>         | (Optional) Disconnect count       |
| <i>unrecognized_tlv</i> | (Optional) Unrecognized TLV count |
| <i>flap_cnt</i>         | (Optional) flap count             |

## Command Mode

- /exec

# show lldp traffic interface

```
show lldp traffic interface <if> [ __readonly__ <interface> <tx_cnt> <aged_cnt> <rx_cnt> <rx_err> <disc_cnt>
<unrecognized_tlv> <flap_cnt> ]
```

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information            |
| lldp                    | Show information about lldp                |
| traffic                 | Show lldp counters                         |
| interface               | Show lldp traffic counters on an interface |
| <i>if</i>               | Enter interface                            |
| <i>__readonly__</i>     | (Optional)                                 |
| <i>interface</i>        | (Optional) Interface ID                    |
| <i>tx_cnt</i>           | (Optional) Transmit count                  |
| <i>aged_cnt</i>         | (Optional) Aged out count                  |
| <i>rx_cnt</i>           | (Optional) Received count                  |
| <i>rx_err</i>           | (Optional) Received error count            |
| <i>disc_cnt</i>         | (Optional) Disconnect count                |
| <i>unrecognized_tlv</i> | (Optional) Unrecognized TLV count          |
| <i>flap_cnt</i>         | (Optional) flap count                      |

## Command Mode

- /exec

## show lldp traffic interface all

```
show lldp traffic interface all [ __readonly__ TABLE_lldp_traffic_interface <interface> <tx_cnt> <aged_cnt>
<rx_cnt> <rx_err> <disc_cnt> <unrecognized_tlv> <flap_cnt> ]
```

### Syntax Description

|                                     |  |
|-------------------------------------|--|
| show                                | Show running system information            |
| lldp                                | Show information about lldp                |
| traffic                             | Show lldp counters                         |
| interface                           | Show lldp traffic counters on an interface |
| all                                 | Get status for all interfaces              |
| <i>__readonly__</i>                 | (Optional)                                 |
| <i>TABLE_lldp_traffic_interface</i> | (Optional) LLDP traffic interface table    |
| <i>interface</i>                    | (Optional) Interface ID                    |
| <i>tx_cnt</i>                       | (Optional) Transmit count                  |
| <i>aged_cnt</i>                     | (Optional) Aged out count                  |
| <i>rx_cnt</i>                       | (Optional) Received count                  |
| <i>rx_err</i>                       | (Optional) Received error count            |
| <i>disc_cnt</i>                     | (Optional) Disconnect count                |
| <i>unrecognized_tlv</i>             | (Optional) Unrecognized TLV count          |
| <i>flap_cnt</i>                     | (Optional) flap count                      |

### Command Mode

- /exec

# show locator-led status

show locator-led status [ \_\_readonly\_\_ { TABLE\_loc\_led\_stat <component> <status> } ]

## Syntax Description

|                    |                                 |
|--------------------|---------------------------------|
| show               | Show running system information |
| locator-led        | blink locator led on device     |
| status             | status                          |
| __readonly__       | (Optional)                      |
| TABLE_loc_led_stat | (Optional)                      |
| <i>component</i>   | (Optional)                      |
| <i>status</i>      | (Optional)                      |

## Command Mode

- /exec

# show logging

show logging

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |

## Command Mode

- /exec



# show logging console

show logging console

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| console | Show console logging configuration                 |

## Command Mode

- /exec

# show logging dropcount

show logging dropcount

## Syntax Description

|           |                                    |
|-----------|------------------------------------|
| show      | logging dropcount                  |
| logging   | Show logging drop count of syslogs |
| dropcount | Show logging dropcount             |

## Command Mode

- /exec

## show logging info

```
show logging info [ __readonly__ { <console_status> [ <console_severity> ] } { <monitor_status> [
<monitor_severity> ] } { <linecard_status> [ <linecard_severity> ] } { <log_timestamp> } [ {
<source_interface_status> } [ <source_interface_intf> | <source_interface_intf_index> <source_interface_error>
] ] { <server_status> [ { TABLE_logserver <server> <forwarding> <severity> <facility> <vrf> <port> [
<transport> ] } ] } { <origin_id_status> } [ <origin_id> ] [ [ <logflash_status> ] [ <logflash_severity> ] ]
{ <logfile_status> [ <logfile_name> <logfile_severity> <logfile_size> ] } { { TABLE_facility
<fac_name> <def_level> <cur_level> } { <fac_info> } } ]
```

### Syntax Description

|                                |  |
|--------------------------------|--|
| show                           | Show running system information                    |
| logging                        | Show logging configuration and contents of logfile |
| info                           | Show logging configuration                         |
| <i>__readonly__</i>            | (Optional)   |
| <i>console_status</i>          | (Optional) console logging status                  |
| <i>console_severity</i>        | (Optional) console logging level                   |
| <i>monitor_status</i>          | (Optional) monitor logging status                  |
| <i>monitor_severity</i>        | (Optional) monitor logging level                   |
| <i>linecard_status</i>         | (Optional) linecard logging status                 |
| <i>linecard_severity</i>       | (Optional) linecard logging level                  |
| <i>log_timestamp</i>           | (Optional) timestamp unit                          |
| <i>source_interface_status</i> | (Optional) source-interface logging status         |
| <i>source_interface_intf</i>   | (Optional) source-interface interface              |
| <i>server_status</i>           | (Optional) logging server status                   |
| TABLE_logserver                | (Optional) output of show logging server           |
| <i>transport</i>               | (Optional) remote server transport                 |
| <i>origin_id_status</i>        | (Optional) origin-id status                        |
| <i>origin_id</i>               | (Optional) origin-id                               |
| <i>logflash_status</i>         | (Optional) logflash status                         |
| <i>logflash_severity</i>       | (Optional) logflash level                          |
| <i>logfile_status</i>          | (Optional) logfile status                          |
| TABLE_facility                 | (Optional) output of show logging level(facility)  |

|                 |                       |
|-----------------|-----------------------|
| <i>fac_info</i> | (Optional) level info |
|-----------------|-----------------------|

**Command Mode**

- /exec

## show logging ip access-list cache

```
show logging ip access-list cache [ detail ] [ __readonly__ <disp_flags> <sgt> <src_ip> <dst_ip> <src_port>
<dst_port> <if_index> <proto> <hit_cnt> <acl_name> <acl_num> <acl_permit> <acl_ingress> <acl_type>
<acl_appl_if_index> <acl_fltr_hit_cnt> ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information                           |
| logging                  | logging information                                       |
| ip                       | IP configuration  |
| access-list              | Access-list   |
| cache                    | logging   |
| detail                   | (Optional) Show additional details about entries in cache |
| <i>__readonly__</i>      | (Optional)  |
| <i>disp_flags</i>        | (Optional) Display flags                                  |
| <i>sgt</i>               | (Optional) SGT  |
| <i>src_ip</i>            | (Optional) Source IP                                      |
| <i>dst_ip</i>            | (Optional) Dest IP  |
| <i>src_port</i>          | (Optional) Source port                                    |
| <i>dst_port</i>          | (Optional) Dest port                                      |
| <i>if_index</i>          | (Optional) Interface                                      |
| <i>proto</i>             | (Optional) Protocol                                       |
| <i>hit_cnt</i>           | (Optional) Hits   |
| <i>acl_name</i>          | (Optional) ACL Name                                       |
| <i>acl_num</i>           | (Optional) ACL Number                                     |
| <i>acl_permit</i>        | (Optional) ACL Permit                                     |
| <i>acl_ingress</i>       | (Optional) ACL Ingress                                    |
| <i>acl_type</i>          | (Optional) ACL Filter Type                                |
| <i>acl_appl_if_index</i> | (Optional) ACL Applied Interface                          |
| <i>acl_fltr_hit_cnt</i>  | (Optional) ACL Filter Count                               |

### Command Mode

- /exec

# show logging ip access-list status

show logging ip access-list status [ *\_\_readonly\_\_* <num\_entries> <seconds> <num\_packets> ]

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information           |
| logging             | logging information                       |
| ip                  | IP configuration                          |
| access-list         | Access-list                               |
| status              | ACLLOG status                             |
| <i>__readonly__</i> | (Optional)                                |
| <i>num_entries</i>  | (Optional) Max flows                      |
| <i>seconds</i>      | (Optional) Log-update interval in seconds |
| <i>num_packets</i>  | (Optional) threshold                      |

## Command Mode

- /exec

# show logging last

show logging last <i0>

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                    |
| logging   | Show logging configuration and contents of logfile |
| last      | Show last few lines of logfile                     |
| <i>i0</i> | Enter number of lines to display                   |

## Command Mode

- /exec



# show logging level

show logging level

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |

## Command Mode

- /exec

## show logging level

```
show logging level [ { auth | authpriv | cron | daemon | ftp | kernel | local0 | local1 | local2 | local3 | local4 |
local5 | local6 | local7 | lpr | mail | news | syslog | user | uucp } ] [ __readonly__ { TABLE_facility <fac_name>
<def_level> <cur_level> } ]
```

### Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                                |
| logging      | Show logging configuration and contents of logfile             |
| level        | Show facility logging configuration                            |
| auth         | (Optional) Show Authorization System logging configuration     |
| authpriv     | (Optional) Show Authorization (Private) logging configuration  |
| cron         | (Optional) Show Cron/at facility logging configuration         |
| daemon       | (Optional) Show System daemons logging configuration           |
| ftp          | (Optional) Show File Transfer System logging configuration     |
| kernel       | (Optional) Show kernel logging configuration                   |
| local0       | (Optional) Show Local use daemons logging configuration        |
| local1       | (Optional) Show Local use daemons logging configuration        |
| local2       | (Optional) Show Local use daemons logging configuration        |
| local3       | (Optional) Show Local use daemons logging configuration        |
| local4       | (Optional) Show Local use daemons logging configuration        |
| local5       | (Optional) Show Local use daemons logging configuration        |
| local6       | (Optional) Show Local use daemons logging configuration        |
| local7       | (Optional) Show Local use daemons logging configuration        |
| lpr          | (Optional) Show Line Printer System logging configuration      |
| mail         | (Optional) Show Mail System logging configuration              |
| news         | (Optional) Show USENET news logging configuration              |
| syslog       | (Optional) Show Internal Syslog Messages logging configuration |
| user         | (Optional) Show user process logging configuration             |
| uucp         | (Optional) Show Unix-to-Unix copy system logging configuration |
| __readonly__ | (Optional)   |

|                  |                             |
|------------------|-----------------------------|
| <i>fac_name</i>  | (Optional) facility names   |
| TABLE_facility   | (Optional)                  |
| <i>def_level</i> | (Optional) default severity |
| <i>cur_level</i> | (Optional) current severity |

**Command Mode**

- /exec

# show logging level aaa

show logging level aaa

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| aaa     | Show aaa logging configuration                     |

## Command Mode

- /exec

# show logging level aclog

show logging level aclog

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| aclog   | Show aclog logging configuration                   |

## Command Mode

- /exec

# show logging level aclmgr

show logging level aclmgr

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| aclmgr  | Show aclmgr logging configuration                  |

## Command Mode

- /exec

# show logging level adbm

show logging level adbm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| adbm    | Show adbm logging configuration                    |

## Command Mode

- /exec

# show logging level adjmgr

show logging level adjmgr

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| adjmgr  | Show adjmgr logging configuration                  |

## Command Mode

- /exec



# show logging level amt

show logging level amt

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| amt     | Show amt logging configuration                     |

## Command Mode

- /exec

# show logging level arp

show logging level arp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| arp     | Show arp logging configuration                     |

## Command Mode

- /exec

# show logging level ascii-cfg

show logging level ascii-cfg

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                    |
| logging   | Show logging configuration and contents of logfile |
| level     | Show facility logging configuration                |
| ascii-cfg | Show ascii-cfg logging configuration               |

## Command Mode

- /exec

# show logging level assoc\_mgr

show logging level assoc\_mgr

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                    |
| logging   | Show logging configuration and contents of logfile |
| level     | Show facility logging configuration                |
| assoc_mgr | Show Association Manager Logging Configuration     |

## Command Mode

- /exec

# show logging level backup

show logging level { backup | flexlink }

## Syntax Description

|          |  |
|----------|--|
| show     | Show running system information                    |
| logging  | Show logging configuration and contents of logfile |
| level    | Show facility logging configuration                |
| backup   | Show Switchport Backup logging level               |
| flexlink | Show Switchport Backup logging level               |

## Command Mode

- /exec

# show logging level bfd

show logging level bfd

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| bfd     | Show bfd logging configuration                     |

## Command Mode

- /exec

# show logging level bgp

show logging level bgp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| bgp     | Show BGP logging configuration                     |

## Command Mode

- /exec

# show logging level bloggerd

show logging level bloggerd

## Syntax Description

|          |  |
|----------|--|
| show     | Show running system information                    |
| logging  | Show logging configuration and contents of logfile |
| level    | Show facility logging configuration                |
| bloggerd | Show BloggerD logging configuration                |

## Command Mode

- /exec



# show logging level bootvar

show logging level bootvar

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| bootvar | Show bootvar logging configuration                 |

## Command Mode

- /exec

# show logging level callhome

show logging level callhome

## Syntax Description

|          |  |
|----------|--|
| show     | Show running system information                    |
| logging  | Show logging configuration and contents of logfile |
| level    | Show facility logging configuration                |
| callhome | Show callhome logging configuration                |

## Command Mode

- /exec

# show logging level capability

show logging level capability

## Syntax Description

|            |  |
|------------|--|
| show       | Show running system information                    |
| logging    | Show logging configuration and contents of logfile |
| level      | Show facility logging configuration                |
| capability | Show capability logging configuration              |

## Command Mode

- /exec

# show logging level catena

show logging level catena

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| catena  | Show catena logging configuration                  |

## Command Mode

- /exec

# show logging level cdp

show logging level cdp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| cdp     | Show CDP logging configuration                     |

## Command Mode

- /exec

# show logging level cert\_enroll

show logging level cert\_enroll

## Syntax Description

|             |  |
|-------------|--|
| show        | Show running system information                    |
| logging     | Show logging configuration and contents of logfile |
| level       | Show facility logging configuration                |
| cert_enroll | Show Cert-enroll logging configuration             |

## Command Mode

- /exec

# show logging level cfs

show logging level cfs

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |

## Command Mode

- /exec

# show logging level clis

show logging level clis

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| clis    | Show CLIS logging configuration                    |

## Command Mode

- /exec



# show logging level clk\_mgr

show logging level clk\_mgr

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| clk_mgr | Show clock manager logging configuration           |

## Command Mode

- /exec

# show logging level confcheck

show logging level confcheck

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                    |
| logging   | Show logging configuration and contents of logfile |
| level     | Show facility logging configuration                |
| confcheck | Show confcheck logging configuration               |

## Command Mode

- /exec

# show logging level copp

show logging level copp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| copp    | Show copp logging configuration                    |

## Command Mode

- /exec

# show logging level core

show logging level core

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| core    | Show core daemon logging configuration             |

## Command Mode

- /exec

# show logging level cts

show logging level cts

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| cts     | Show cts logging configuration                     |

## Command Mode

- /exec

# show logging level dhcp\_snoop

show logging level dhcp\_snoop

## Syntax Description

|            |  |
|------------|--|
| show       | Show running system information                    |
| logging    | Show logging configuration and contents of logfile |
| level      | Show facility logging configuration                |
| dhcp_snoop | Show DHCP snoop logging configuration              |

## Command Mode

- /exec

# show logging level diagnostic diagclient

show logging level diagnostic diagclient

## Syntax Description

|            |  |
|------------|--|
| show       | Show running system information                    |
| logging    | Show logging configuration and contents of logfile |
| level      | Show facility logging configuration                |
| diagnostic | Diagnostic commands                                |
| diagclient | Show diagclient logging configuration              |

## Command Mode

- /exec

# show logging level diagnostic diagmgr

show logging level diagnostic diagmgr

## Syntax Description

|            |  |
|------------|--|
| show       | Show running system information                    |
| logging    | Show logging configuration and contents of logfile |
| level      | Show facility logging configuration                |
| diagnostic | Diagnostic commands                                |
| diagmgr    | Show diagmgr logging configuration                 |

## Command Mode

- /exec



# show logging level dot1x

show logging level dot1x

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| dot1x   | Show dot1x logging configuration                   |

## Command Mode

- /exec

# show logging level ecp

show logging level ecp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information        |
| logging | Modify message logging facilities      |
| level   | Facility parameter for syslog messages |
| ecp     | Set syslog filter level for ECP        |

## Command Mode

- /exec

# show logging level eigrp

show logging level eigrp [ <eigrp-ptag> ]

## Syntax Description

|                   |  |
|-------------------|--|
| show              | Show running system information                    |
| logging           | Show logging configuration and contents of logfile |
| level             | Show facility logging configuration                |
| eigrp             | Show EIGRP logging configuration                   |
| <i>eigrp-ptag</i> | (Optional) Process tag                             |

## Command Mode

- /exec

# show logging level eltm

show logging level eltm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| eltm    | Show eltm logging configuration                    |

## Command Mode

- /exec

# show logging level epp

show logging level epp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| epp     | Show epp logging configuration                     |

## Command Mode

- /exec

# show logging level ethdstats

show logging level ethdstats

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                    |
| logging   | Show logging configuration and contents of logfile |
| level     | Show facility logging configuration                |
| ethdstats | Show delta statistics logging configuration        |

## Command Mode

- /exec

# show logging level ethpm

show logging level ethpm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| ethpm   | Show ethpm logging configuration                   |

## Command Mode

- /exec

# show logging level evb

show logging level evb

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information        |
| logging | Modify message logging facilities      |
| level   | Facility parameter for syslog messages |
| evb     | Set syslog filter level for EVB        |

## Command Mode

- /exec



# show logging level evmc

show logging level evmc

## Syntax Description

|         |                                     |
|---------|-------------------------------------|
| show    | Show running system information     |
| logging | Show message logging facilities     |
| level   | Show facility logging configuration |
| evmc    | Show level for evmc syslog messages |

## Command Mode

- /exec

# show logging level evmed

show logging level evmed

## Syntax Description

|         |                                      |
|---------|--------------------------------------|
| show    | Show running system information      |
| logging | Show message logging facilities      |
| level   | Show facility logging configuration  |
| evmed   | Show level for evmed syslog messages |

## Command Mode

- /exec

# show logging level evms

show logging level evms

## Syntax Description

|         |                                     |
|---------|-------------------------------------|
| show    | Show running system information     |
| logging | Show message logging facilities     |
| level   | Show facility logging configuration |
| evms    | Show level for evms syslog messages |

## Command Mode

- /exec

# show logging level fabric forwarding

show logging level fabric forwarding

## Syntax Description

|            |   |
|------------|---|
| show       | Show running system information                         |
| logging    | Modify message logging facilities                       |
| level      | Facility parameter for syslog messages                  |
| fabric     | Fabric  |
| forwarding | Fabric Forwarding Protocol: Host Mobility Manager (HMM) |

## Command Mode

- /exec

# show logging level fabricpath isis

show logging level fabricpath isis

## Syntax Description

|            |  |
|------------|--|
| show       | Show running system information                    |
| logging    | Show logging configuration and contents of logfile |
| level      | Show facility logging configuration                |
| fabricpath | Show fabricpath logging configuration              |
| isis       | Show ISIS logging configuration                    |

## Command Mode

- /exec

# show logging level fabricpath switch-id

show logging level fabricpath switch-id

## Syntax Description

|            |  |
|------------|--|
| show       | Show running system information                    |
| logging    | Show logging configuration and contents of logfile |
| level      | Show facility logging configuration                |
| fabricpath | fabricpath information                             |
| switch-id  | show fabricpath switch-id logging configuration    |

## Command Mode

- /exec

# show logging level fcoe\_mgr

show logging level fcoe\_mgr

## Syntax Description

|          |  |
|----------|--|
| show     | Show running system information                    |
| logging  | Show logging configuration and contents of logfile |
| level    | Show facility logging configuration                |
| fcoe_mgr | Show fcoe_mgr logging configuration                |

## Command Mode

- /exec

# show logging level feature-mgr

show logging level feature-mgr

## Syntax Description

|             |  |
|-------------|--|
| show        | Show running system information                    |
| logging     | Show logging configuration and contents of logfile |
| level       | Show facility logging configuration                |
| feature-mgr | Show feature manager logging configuration         |

## Command Mode

- /exec



# show logging level fs-daemon

show logging level fs-daemon

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                    |
| logging   | Show logging configuration and contents of logfile |
| level     | Show facility logging configuration                |
| fs-daemon | Show fs-daemon logging configuration               |

## Command Mode

- /exec

# show logging level gpixm

show logging level gpixm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| gpixm   | Show global-pixm logging configuration             |

## Command Mode

- /exec

# show logging level hardware-telemetry

show logging level hardware-telemetry

## Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information                    |
| logging            | Show logging configuration and contents of logfile |
| level              | Show facility logging configuration                |
| hardware-telemetry | Show hardware-telemetry logging configuration      |

## Command Mode

- /exec

# show logging level hsrp

show logging level hsrp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| hsrp    | Show HSRP logging configuration                    |

## Command Mode

- /exec

# show logging level icam

show logging level icam

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| icam    | Show icam logging configuration                    |

## Command Mode

- /exec

# show logging level im

show logging level im

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| im      | Show im logging configuration                      |

## Command Mode

- /exec

# show logging level imp

show logging level imp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| imp     | Show imp logging configuration                     |

## Command Mode

- /exec

# show logging level interface-vlan

show logging level interface-vlan

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                    |
| logging        | Show logging configuration and contents of logfile |
| level          | Show facility logging configuration                |
| interface-vlan | Show interface-vlan logging configuration          |

## Command Mode

- /exec



# show logging level ip igmp

show logging level ip igmp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| ip      | Display IP information                             |
| igmp    | Show igmp logging configuration                    |

## Command Mode

- /exec

# show logging level ip msdp

show logging level ip msdp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| ip      | Display IP information                             |
| msdp    | Show msdp logging configuration                    |

## Command Mode

- /exec

# show logging level ip sla responder

show logging level ip sla responder

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                    |
| logging   | Show logging configuration and contents of logfile |
| level     | Show facility logging configuration                |
| ip        |  |
| sla       | Service Level Agreement (SLA)                      |
| responder | Show sla-responder logging configuration           |

## Command Mode

- /exec

# show logging level ip sla sender

show logging level ip sla sender

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| ip      |  |
| sla     | Service Level Agreement (SLA)                      |
| sender  | Show sla-sender logging configuration              |

## Command Mode

- /exec

# show logging level ip sla twamp-server

show logging level ip sla twamp-server

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                    |
| logging      | Show logging configuration and contents of logfile |
| level        | Show facility logging configuration                |
| ip           |  |
| sla          | Service Level Agreement (SLA)                      |
| twamp-server | Show sla-twamp-server logging configuration        |

## Command Mode

- /exec

# show logging level ipconf

show logging level ipconf [ ipv6 ]

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| ipconf  | Show ipconf logging configuration                  |
| ipv6    | (Optional) Show ipv6 Conf logging configuration    |

## Command Mode

- /exec

# show logging level ipfib

show logging level ipfib

## Syntax Description

|         |         |
|---------|---------|
| show    | show    |
| logging | logging |
| level   | level   |
| ipfib   | ipfib   |

## Command Mode

- /exec

# show logging level ipqos

show logging level ipqos

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |

## Command Mode

- /exec



# show logging level iscm

show logging level iscm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| iscm    | Show iscm logging configuration                    |

## Command Mode

- /exec

# show logging level iscm

show logging level iscm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| iscm    | Show iscm logging configuration                    |

## Command Mode

- /exec

# show logging level isis

show logging level isis

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| isis    | Show ISIS logging configuration                    |

## Command Mode

- /exec

# show logging level l2fm

show logging level l2fm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| l2fm    | Show l2fm logging configuration                    |

## Command Mode

- /exec

# show logging level l3vm

show logging level l3vm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| l3vm    | Show L3VM logging configuration                    |

## Command Mode

- /exec

# show logging level lacp

show logging level lacp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| lacp    | Show lacp logging configuration                    |

## Command Mode

- /exec

# show logging level ldap

show logging level ldap

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| ldap    | Show ldap logging configuration                    |

## Command Mode

- /exec

# show logging level lim

show logging level lim

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| lim     | Show lim logging configuration                     |

## Command Mode

- /exec



# show logging level lisp

show logging level lisp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| lisp    | Show lisp logging configuration                    |

## Command Mode

- /exec

# show logging level lldp

show logging level lldp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| lldp    | Show LLDP logging configuration                    |

## Command Mode

- /exec

# show logging level m2rib

show logging level m2rib

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| m2rib   | Show M2RIB logging configuration                   |

## Command Mode

- /exec

# show logging level mfdm

show logging level mfdm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| mfdm    | Show mfdm logging configuration                    |

## Command Mode

- /exec

# show logging level mfwd

show logging level mfwd

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| mfwd    | Show MCASTFWD logging configuration                |

## Command Mode

- /exec

# show logging level mmode

show logging level mmode

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| mmode   | Show maintenance mode logging configuration        |

## Command Mode

- /exec

# show logging level module

show logging level module

## Syntax Description

|         |   |
|---------|---|
| show    | Show running system information                     |
| logging | Show logging configuration and contents of logfile  |
| level   | Show facility logging configuration                 |
| module  | Show module(linecard) manager logging configuration |

## Command Mode

- /exec

# show logging level monitor

show logging level monitor

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| monitor | Show monitor logging configuration                 |

## Command Mode

- /exec



# show logging level mpls manager

show logging level mpls manager

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| mpls    | Show MPLS logging configuration                    |
| manager | Show MPLS manager logging configuration            |

## Command Mode

- /exec

# show logging level mpls switching

show logging level mpls switching

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                    |
| logging   | Show logging configuration and contents of logfile |
| level     | Show facility logging configuration                |
| mpls      | Show MPLS logging configuration                    |
| switching | Show mpls switching logging configuration          |

## Command Mode

- /exec

# show logging level mpls traffic-eng

show logging level mpls traffic-eng

## Syntax Description

|             |  |
|-------------|--|
| show        | Show running system information                    |
| logging     | Show logging configuration and contents of logfile |
| level       | Show facility logging configuration                |
| mpls        | Display MPLS status and configuration              |
| traffic-eng | Show Traffic Engineering logging configuration     |

## Command Mode

- /exec

# show logging level mvsh

show logging level mvsh

## Syntax Description

|         |                                     |
|---------|-------------------------------------|
| show    | Show commands                       |
| logging | Show message logging facilities     |
| level   | Show message logging facilities     |
| mvsh    | Show level for mvsh syslog messages |

## Command Mode

- /exec

# show logging level nat

show logging level nat

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| nat     | Show NAT logging configurarion                     |

## Command Mode

- /exec

# show logging level nbm

show logging level nbm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| nbm     | Show Non Blocking Multicast logging configuration  |

## Command Mode

- /exec

# show logging level netstack

show logging level netstack

## Syntax Description

|          |  |
|----------|--|
| show     | Show running system information                    |
| logging  | Show logging configuration and contents of logfile |
| level    | Show facility logging configuration                |
| netstack | Show netstack logging configuration                |

## Command Mode

- /exec

# show logging level nfm

show logging level nfm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| nfm     | Show NFM logging configuration                     |

## Command Mode

- /exec



# show logging level nfm

show logging level nfm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| nfm     | Show NFM logging configuration                     |

## Command Mode

- /exec

# show logging level ngmvpn

show logging level ngmvpn

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| ngmvpn  | Show ngmvpn logging configuration                  |

## Command Mode

- /exec

# show logging level ngoam

show logging level ngoam

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| ngoam   | Show ngoam logging level                           |

## Command Mode

- /exec

# show logging level npv

show logging level npv

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| npv     | Show npv logging configuration                     |

## Command Mode

- /exec

# show logging level ntp

show logging level ntp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| ntp     | Show NTP logging settings.                         |

## Command Mode

- /exec

# show logging level nve

show logging level nve

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| nve     | Show NVE logging configuration                     |

## Command Mode

- /exec

# show logging level nxsdk

show logging level nxsdk

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information        |
| logging | Modify message logging facilities      |
| level   | Facility parameter for syslog messages |
| nxsdk   | NXOS SDK                               |

## Command Mode

- /exec

# show logging level openflow

show logging level openflow

## Syntax Description

|          |  |
|----------|--|
| show     | Show running system information                    |
| logging  | Show logging configuration and contents of logfile |
| level    | Show facility logging configuration                |
| openflow | Show OpenFlow agent logging configuration          |

## Command Mode

- /exec



# show logging level ospf

show logging level ospf

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| ospf    | Show OSPF logging configuration                    |

## Command Mode

- /exec

# show logging level ospfv3

show logging level ospfv3

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| ospfv3  | Display OSPFv3 status and configuration            |

## Command Mode

- /exec

# show logging level otv

show logging level otv

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| otv     | Show OTV logging configuration                     |

## Command Mode

- /exec

# show logging level pfstat

show logging level pfstat

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| pfstat  | Show pfstat logging configuration                  |

## Command Mode

- /exec

# show logging level pim

show logging level [ ip ] pim

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| ip      | (Optional) Display IP information                  |
| pim     | Show pim logging configuration                     |

## Command Mode

- /exec

# show logging level pim

show logging level [ ipv6 ] pim

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| ipv6    | (Optional) Display IPv6 information                |
| pim     | Show pim6 logging configuration                    |

## Command Mode

- /exec

# show logging level pixm

show logging level pixm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| pixm    | Show vdc-local-pixm logging configuration          |

## Command Mode

- /exec

# show logging level pktmgr

show logging level pktmgr

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| pktmgr  | Show pktmgr logging configuration                  |

## Command Mode

- /exec



# show logging level platform

show logging level platform

## Syntax Description

|          |  |
|----------|--|
| show     | Show running system information                    |
| logging  | Show logging configuration and contents of logfile |
| level    | Show facility logging configuration                |
| platform | Show platform logging configuration                |

## Command Mode

- /exec

# show logging level plbm

show logging level plbm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| plbm    | Show plbm logging configuration                    |

## Command Mode

- /exec

# show logging level plcmgr

show logging level plcmgr

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |

## Command Mode

- /exec

# show logging level pltfm\_config

show logging level pltfm\_config

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                    |
| logging      | Show logging configuration and contents of logfile |
| level        | Show facility logging configuration                |
| pltfm_config | Show pltfm_config logging configuration            |

## Command Mode

- /exec

# show logging level plugin

show logging level plugin

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| plugin  | Show plugin logging configuration                  |

## Command Mode

- /exec

# show logging level poap

show logging level poap

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| poap    | Show poap logging configuration                    |

## Command Mode

- /exec

# show logging level poed

show logging level poed

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| poed    | Show PoE Daemon Logging Configuration              |

## Command Mode

- /exec

# show logging level port-channel

show logging level port-channel

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                    |
| logging      | Show logging configuration and contents of logfile |
| level        | Show facility logging configuration                |
| port-channel | Show port-channel logging configuration            |

## Command Mode

- /exec



# show logging level port-profile

show logging level port-profile

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                    |
| logging      | Show logging configuration and contents of logfile |
| level        | Show facility logging configuration                |
| port-profile | Show syslog level for port-profile                 |

## Command Mode

- /exec

# show logging level port-resources

show logging level port-resources

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                    |
| logging        | Show logging configuration and contents of logfile |
| level          | Show facility logging configuration                |
| port-resources | Show port-resources logging configuration          |

## Command Mode

- /exec

# show logging level port-security

show logging level port-security

## Syntax Description

|               |  |
|---------------|--|
| show          | Show running system information                    |
| logging       | Show logging configuration and contents of logfile |
| level         | Show facility logging configuration                |
| port-security | Show port-security logging configuration           |

## Command Mode

- /exec

# show logging level port

show logging level port

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| port    | Show port logging configuration                    |

## Command Mode

- /exec

# show logging level private-vlan

show logging level private-vlan

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                    |
| logging      | Show logging configuration and contents of logfile |
| level        | Show facility logging configuration                |
| private-vlan | Show interface-vlan logging configuration          |

## Command Mode

- /exec

# show logging level ptp

show logging level ptp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| ptp     | Show ptp logging configuration                     |

## Command Mode

- /exec

# show logging level radius

show logging level radius

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| radius  | Show radius logging configuration                  |

## Command Mode

- /exec

# show logging level res\_mgr

show logging level res\_mgr

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| res_mgr | Show res_mgr logging configuration                 |

## Command Mode

- /exec



# show logging level rip

show logging level rip

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| rip     | Show RIP logging configuration                     |

## Command Mode

- /exec

# show logging level routing ipv6 multicast

show logging level routing ipv6 multicast

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                    |
| logging   | Show logging configuration and contents of logfile |
| level     | Show facility logging configuration                |
| routing   | Display routing information                        |
| ipv6      | Display IPv6 information                           |
| multicast | Display multicast information                      |

## Command Mode

- /exec

# show logging level routing multicast

show logging level routing [ ip | ipv4 ] multicast

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                    |
| logging   | Show logging configuration and contents of logfile |
| level     | Show facility logging configuration                |
| routing   | Display routing information                        |
| ip        | (Optional) Display IP information                  |
| ipv4      | (Optional) Display IP information                  |
| multicast | Display multicast information                      |

## Command Mode

- /exec

# show logging level rpm

show logging level rpm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| rpm     | Show RPM logging configuration                     |

## Command Mode

- /exec

# show logging level rsvp

show logging level rsvp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| rsvp    | Show RSVP logging configuration                    |

## Command Mode

- /exec

# show logging level sal

show logging level sal

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| sal     | Show SAL logging configuration                     |

## Command Mode

- /exec

# show logging level san-port-channel

show logging level san-port-channel

## Syntax Description

|                  |  |
|------------------|--|
| show             | Show running system information                    |
| logging          | Show logging configuration and contents of logfile |
| level            | Show facility logging configuration                |
| san-port-channel | Show san-port-channel logging configuration        |

## Command Mode

- /exec

# show logging level san-port-channel

show logging level san-port-channel

## Syntax Description

|                  |  |
|------------------|--|
| show             | Show running system information                    |
| logging          | Show logging configuration and contents of logfile |
| level            | Show facility logging configuration                |
| san-port-channel | Show san-port-channel logging configuration        |

## Command Mode

- /exec



# show logging level scheduler

show logging level scheduler

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                    |
| logging   | Show logging configuration and contents of logfile |
| level     | Show facility logging configuration                |
| scheduler | Show scheduler logging configuration               |

## Command Mode

- /exec

# show logging level security

show logging level security

## Syntax Description

|          |  |
|----------|--|
| show     | Show running system information                    |
| logging  | Show logging configuration and contents of logfile |
| level    | Show facility logging configuration                |
| security | Show security logging configuration                |

## Command Mode

- /exec

# show logging level segment-routing

show logging level segment-routing

## Syntax Description

|                 |  |
|-----------------|--|
| show            | Show running system information                    |
| logging         | Show logging configuration and contents of logfile |
| level           | Show facility logging configuration                |
| segment-routing | Show SR logging configuration                      |

## Command Mode

- /exec

# show logging level session-mgr

show logging level session-mgr

## Syntax Description

|             |  |
|-------------|--|
| show        | Show running system information                    |
| logging     | Show logging configuration and contents of logfile |
| level       | Show facility logging configuration                |
| session-mgr | Show session-mgr logging configurarion             |

## Command Mode

- /exec

# show logging level sflow

show logging level sflow

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| sflow   | Show sFlow logging configuration                   |

## Command Mode

- /exec

# show logging level smartc

show logging level smartc

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| smartc  | Show smartc logging configuration                  |

## Command Mode

- /exec

# show logging level smm

show logging level smm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| smm     | Show Shared Memory Manager logging configuration   |

## Command Mode

- /exec

# show logging level snmpd

show logging level snmpd

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| snmpd   | Show SNMP logging configuration                    |

## Command Mode

- /exec



# show logging level snmpmib\_proc

show logging level snmpmib\_proc

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                    |
| logging      | Show logging configuration and contents of logfile |
| level        | Show facility logging configuration                |
| snmpmib_proc | Show snmpmib_proc logging configuration            |

## Command Mode

- /exec

# show logging level spanning-tree

show logging level spanning-tree

## Syntax Description

|               |  |
|---------------|--|
| show          | Show running system information                    |
| logging       | Show logging configuration and contents of logfile |
| level         | Show facility logging configuration                |
| spanning-tree | Show spanning-tree logging configuration           |

## Command Mode

- /exec

# show logging level spm

show logging level spm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| spm     | Show spm logging configuration                     |

## Command Mode

- /exec

# show logging level stripcl

show logging level stripcl

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| stripcl | Show stripcl logging configuration                 |

## Command Mode

- /exec

# show logging level sysmgr

show logging level sysmgr

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| sysmgr  | Show sysmgr logging configuration                  |

## Command Mode

- /exec

# show logging level tacacs

show logging level tacacs

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| tacacs  | Show tacacs+ logging configuration                 |

## Command Mode

- /exec

# show logging level telemetry

show logging level telemetry

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                    |
| logging   | Show logging configuration and contents of logfile |
| level     | Show facility logging configuration                |
| telemetry | Show telemetry logging level                       |

## Command Mode

- /exec

# show logging level template\_manager

show logging level template\_manager

## Syntax Description

|                  |  |
|------------------|--|
| show             | Show running system information                    |
| logging          | Show logging configuration and contents of logfile |
| level            | Show facility logging configuration                |
| template_manager | Show template manager logging configuration        |

## Command Mode

- /exec



# show logging level track

show logging level track

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| track   | Show track logging configuration                   |

## Command Mode

- /exec

# show logging level tunnel

show logging level tunnel

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| tunnel  | Show tunnel logging settings                       |

## Command Mode

- /exec

# show logging level u2rib

show logging level u2rib

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| u2rib   | Show U2RIB logging configuration                   |

## Command Mode

- /exec

# show logging level u6rib

show logging level u6rib

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| u6rib   | Show U6RIB logging configuration                   |

## Command Mode

- /exec

# show logging level udd

show logging level udd

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| udd     | Show udd logging configuration                     |

## Command Mode

- /exec

# show logging level ufdm

show logging level ufdm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| ufdm    | Show ufdm logging configuration                    |

## Command Mode

- /exec

# show logging level urib

show logging level urib

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| urib    | Show URIB logging configuration                    |

## Command Mode

- /exec

# show logging level vdc\_mgr

show logging level vdc\_mgr

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| vdc_mgr | Show vdc manager logging configuration             |

## Command Mode

- /exec



# show logging level virtual-service

show logging level virtual-service

## Syntax Description

|                 |  |
|-----------------|--|
| show            | Show running system information                    |
| logging         | Show logging configuration and contents of logfile |
| level           | Show facility logging configuration                |
| virtual-service | Show virtualization manager logging configuration  |

## Command Mode

- /exec

# show logging level vlan\_mgr

show logging level vlan\_mgr

## Syntax Description

|          |  |
|----------|--|
| show     | Show running system information                    |
| logging  | Show logging configuration and contents of logfile |
| level    | Show facility logging configuration                |
| vlan_mgr | Show vlan manager logging configuration            |

## Command Mode

- /exec

# show logging level vmm

show logging level vmm

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| vmm     | Show vmm logging configuration                     |

## Command Mode

- /exec

# show logging level vmtracker

show logging level vmtracker

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                    |
| logging   | Show logging configuration and contents of logfile |
| level     | Show facility logging configuration                |
| vmtracker | Show vmtracker logging configuration               |

## Command Mode

- /exec

# show logging level vpc

show logging level vpc

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| vpc     | Show vPC logging configuration                     |

## Command Mode

- /exec

# show logging level vrrp-cfg

show logging level vrrp-cfg

## Syntax Description

|          |  |
|----------|--|
| show     | Show running system information                    |
| logging  | Show logging configuration and contents of logfile |
| level    | Show facility logging configuration                |
| vrrp-cfg | Show vrrp-cfg logging configuration                |

## Command Mode

- /exec

# show logging level vrrp-eng

show logging level vrrp-eng

## Syntax Description

|          |  |
|----------|--|
| show     | Show running system information                    |
| logging  | Show logging configuration and contents of logfile |
| level    | Show facility logging configuration                |
| vrrp-eng | Show vrrp-eng logging configuration                |

## Command Mode

- /exec

# show logging level vrrpv3

show logging level vrrpv3

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| vrrpv3  | level for vrrpv3 configuration                     |

## Command Mode

- /exec



# show logging level vsan

show logging level vsan

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| vsan    | Show vsan logging configuration                    |

## Command Mode

- /exec

# show logging level vshd

show logging level vshd

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |

## Command Mode

- /exec

# show logging level vtp

show logging level vtp

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| vtp     | Show vtp logging configuration                     |

## Command Mode

- /exec

# show logging level wwn

show logging level wwn

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |
| wwn     | Show wwn logging configuration                     |

## Command Mode

- /exec

# show logging level xbar

show logging level xbar

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| level   | Show facility logging configuration                |

## Command Mode

- /exec

# show logging logfile

show logging logfile

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| logfile | Show contents of logfile                           |

## Command Mode

- /exec

# show logging logfile duration

show logging logfile duration <s1>

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                      |
| logging   | Show logging configuration and contents of logfile   |
| logfile   | Show contents of logfile                             |
| duration  | show messages from logfile of last given duration    |
| <i>s1</i> | Enter hour, minutes, seconds of duration as HH:MM:SS |

## Command Mode

- /exec

# show logging logfile last-index

show logging logfile last-index

## Syntax Description

|            |   |
|------------|---|
| show       | Show running system information                         |
| logging    | Show logging configuration and contents of logfile      |
| logfile    | Show contents of logfile                                |
| last-index | Show the sequence-number of the last message in logfile |

## Command Mode

- /exec



# show logging logfile start-seqn

show logging logfile start-seqn <i0> [ end-seqn <i1> ]

## Syntax Description

|            |  |
|------------|--|
| show       | Show running system information  |
| logging    | Show logging configuration and contents of logfile                     |
| logfile    | Show contents of logfile   |
| start-seqn | Show messages from logfile from a given start-sequence-number          |
| <i>i0</i>  | Enter starting sequence number   |
| end-seqn   | (Optional) Show messages from logfile from a given end-sequence-number |
| <i>i1</i>  | (Optional) Enter ending sequence number                                |

## Command Mode

- /exec

## show logging logfile start-time

show logging logfile start-time <i0> <s0> <i1> <s1> [ end-time <i2> <s2> <i3> <s3> ]

### Syntax Description

|            |  |
|------------|--|
| show       | Show running system information                                |
| logging    | Show logging configuration and contents of logfile             |
| logfile    | Show contents of logfile                                       |
| start-time | Show messages from logfile from a given start-time             |
| <i>i0</i>  | Enter year in YYYY format                                      |
| <i>s0</i>  | Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec            |
| <i>i1</i>  | Enter day of month in dd format                                |
| <i>s1</i>  | Enter hour, minutes, seconds as HH:MM:SS                       |
| end-time   | (Optional) Show messages from logfile up to a given end-time   |
| <i>i2</i>  | (Optional) Enter year in YYYY format                           |
| <i>s2</i>  | (Optional) Enter Month as Jan, Feb, Mar, ..., Oct, Nov, or Dec |
| <i>i3</i>  | (Optional) Enter day of month in dd format                     |
| <i>s3</i>  | (Optional) Enter hour, minutes, seconds as HH:MM:SS            |

### Command Mode

- /exec

# show logging loopback

show logging loopback

## Syntax Description

|          |  |
|----------|--|
| show     | Show running system information                    |
| logging  | Show logging configuration and contents of logfile |
| loopback | Show logging loopback configuration                |

## Command Mode

- /exec

# show logging module

show logging module

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| module  | Show module(linecard) logging configuration        |

## Command Mode

- /exec

# show logging monitor

show logging monitor

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| monitor | Show monitor logging configuration                 |

## Command Mode

- /exec

# show logging nvram

```
show logging nvram [ [ { last <i0> } ] [ __readonly__ [ <error> ] [ { TABLE_nvram <log> } ] ] ]
```

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                    |
| logging      | Show logging configuration and contents of logfile |
| nvram        | Show NVRAM log                                     |
| last         | (Optional) Show last few lines of nvram log        |
| <i>i0</i>    | (Optional) Enter number of lines to display        |
| __readonly__ | (Optional)   |
| <i>error</i> | (Optional) error message                           |
| TABLE_nvram  | (Optional) nvram log prints                        |
| <i>log</i>   | (Optional) single log line                         |

## Command Mode

- /exec

# show logging onboard

```
show logging onboard { counter-stats | endtime <s0> [ { counter-stats | internal { <dc3_options> } } ] | internal
{ <dc3_options> } | module <module> { counter-stats | endtime1 <s1> [ { counter-stats | internal {
<dc3_options> } } ] | internal { <dc3_options> } | starttime <s2> [ { counter-stats | endtime2 <s3> [ {
counter-stats | internal { <dc3_options> } } ] | internal { <dc3_options> } } ] | starttime1 <s4> [ { counter-stats
| endtime3 <s5> [ { counter-stats | internal { <dc3_options> } } ] | internal { <dc3_options> } } ] }
```

## Syntax Description

|                    |   |
|--------------------|---|
| show               | Show running system information                           |
| logging            | Show logging configuration and contents of logfile        |
| onboard            | Show OBFL information                                     |
| counter-stats      | Show OBFL counter statistics                              |
| endtime            | Show OBFL logs till end time mm/dd/yy-HH:MM:SS            |
| <i>s0</i>          | End time format - mm/dd/yy-HH:MM:SS                       |
| internal           | (Optional) Show Logging Onboard Internal                  |
| module             | Show OBFL information for Module                          |
| <i>module</i>      | Enter module number                                       |
| endtime1           | Show OBFL logs till end time mm/dd/yy-HH:MM:SS            |
| <i>s1</i>          | End time format - mm/dd/yy-HH:MM:SS                       |
| starttime          | Show OBFL logs from start time mm/dd/yy-HH:MM:SS          |
| <i>s2</i>          | Start time format - mm/dd/yy-HH:MM:SS                     |
| endtime2           | (Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS |
| <i>s3</i>          | (Optional) End time format - mm/dd/yy-HH:MM:SS            |
| starttime1         | Show OBFL logs from start time mm/dd/yy-HH:MM:SS          |
| <i>s4</i>          | Start time format - mm/dd/yy-HH:MM:SS                     |
| endtime3           | (Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS |
| <i>s5</i>          | (Optional) End time format - mm/dd/yy-HH:MM:SS            |
| <i>dc3_options</i> | (Optional) dc3 options                                    |

## Command Mode

- /exec

## show logging onboard

```
show logging onboard [ card-first-power-on | card-boot-history | <common_options> | endtime <s0> [ {
<common_options> | error-stats [ port <i0> ] } ] | error-stats [ port1 <i1> ] | module <module> [
<common_options> | endtime1 <s1> [ { <common_options> | error-stats [ port3 <i3> ] } ] | error-stats [ port4
<i4> ] | starttime <s2> [ { <common_options> | endtime2 <s3> [ { <common_options> | error-stats [ port6
<i6> ] } ] | error-stats [ port7 <i7> ] } ] | card-first-power-on | card-boot-history ] | obfl-logs | starttime1 <s4>
[ { <common_options> | endtime3 <s5> [ { <common_options> | error-stats [ port8 <i8> ] } ] | error-stats [
port9 <i9> ] } ] | credit-loss [ module <module> [ last <last_no> { minutes | hours | days } ] | last <last_no>
{ minutes | hours | days } ] | flow-control { pause-count [ module <module> [ last <last_no> { minutes | hours
| days } ] | last <last_no> { minutes | hours | days } ] | pause-events [ module <module> [ last <last_no> {
minutes | hours | days } ] | last <last_no> { minutes | hours | days } ] | request-timeout [ module <module> ]
| timeout-drops [ module <module> [ port10 <i10> [ last <last_no> { minutes | hours | days } ] | last <last_no>
{ minutes | hours | days } ] | last <last_no> { minutes | hours | days } } ] }
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                           |
| logging               | Show logging configuration and contents of logfile        |
| onboard               | Show OBFL information                                     |
| card-first-power-on   | (Optional) show card first power on information           |
| card-boot-history     | (Optional) show card boot history                         |
| endtime               | (Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS |
| <i>s0</i>             | (Optional) End time format - mm/dd/yy-HH:MM:SS            |
| error-stats           | (Optional) Show OBFL error statistics                     |
| port                  | (Optional) Show OBFL error statistics for a port          |
| <i>i0</i>             | (Optional)  |
| <i>common_options</i> | (Optional) give the options                               |
| port1                 | (Optional) Show OBFL error statistics for a port          |
| <i>i1</i>             | (Optional)  |
| module                | (Optional) Show OBFL information for Module               |
| <i>module</i>         | (Optional) Enter module number                            |
| endtime1              | (Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS |
| <i>s1</i>             | (Optional) End time format - mm/dd/yy-HH:MM:SS            |
| port3                 | (Optional) Show OBFL error statistics for a port          |
| <i>i3</i>             | (Optional)  |



|                 |   |
|-----------------|---|
| port4           | (Optional) Show OBFL error statistics for a port            |
| <i>i4</i>       | (Optional)  |
| starttime       | (Optional) Show OBFL logs from start time mm/dd/yy-HH:MM:SS |
| <i>s2</i>       | (Optional) Start time format - mm/dd/yy-HH:MM:SS            |
| endtime2        | (Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS   |
| <i>s3</i>       | (Optional) End time format - mm/dd/yy-HH:MM:SS              |
| port6           | (Optional) Show OBFL error statistics for a port            |
| <i>i6</i>       | (Optional)  |
| port7           | (Optional) Show OBFL error statistics for a port            |
| <i>i7</i>       | (Optional)  |
| starttime1      | (Optional) Show OBFL logs from start time mm/dd/yy-HH:MM:SS |
| <i>s4</i>       | (Optional) Start time format - mm/dd/yy-HH:MM:SS            |
| endtime3        | (Optional) Show OBFL logs till end time mm/dd/yy-HH:MM:SS   |
| <i>s5</i>       | (Optional) End time format - mm/dd/yy-HH:MM:SS              |
| port8           | (Optional) Show OBFL error statistics for a port            |
| <i>i8</i>       | (Optional)  |
| port9           | (Optional) Show OBFL error statistics for a port            |
| <i>i9</i>       | (Optional)  |
| obfl-logs       | (Optional) Show OBFL Tech Support Log.                      |
| timeout-drops   | (Optional) Show OBFL Timeout Drops logs                     |
| port10          | (Optional) Show OBFL statistics per port basis              |
| <i>i10</i>      | (Optional)  |
| credit-loss     | (Optional) Show OBFL Credit Loss logs                       |
| last            | (Optional) Show last min/hour/day logs                      |
| <i>last_no</i>  | (Optional) Duration in min/hrs/day                          |
| minutes         | (Optional) entry in minutes                                 |
| hours           | (Optional) entry in hours                                   |
| days            | (Optional) entry in days                                    |
| request-timeout | (Optional) Show OBFL request timeout log                    |

|              |   |
|--------------|---|
| flow-control | (Optional) Show OBFL Flow Control log         |
| pause-count  | (Optional) Show Flow Control Pause Count Logs |
| pause-events | (Optional) Show Flow Control Pause Event Logs |

**Command Mode**

- /exec

# show logging onboard kernel-trace

show logging onboard kernel-trace

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                    |
| logging      | Show logging configuration and contents of logfile |
| onboard      | Show OBFL information                              |
| kernel-trace | Show OBFL Kernel Trace                             |

## Command Mode

- /exec

# show logging origin-id

show logging origin-id

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                    |
| logging   | Show logging configuration and contents of logfile |
| origin-id | Show logging origin id configuration               |

## Command Mode

- /exec

# show logging pending-diff

show logging pending-diff

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                    |
| logging      | Show logging configuration and contents of logfile |
| pending-diff | server address pending configuration diff          |

## Command Mode

- /exec

# show logging pending

show logging pending

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| pending | server address pending configuration               |

## Command Mode

- /exec

# show logging rate-limit

show logging rate-limit

## Syntax Description

|            |  |
|------------|--|
| show       | Show running system information                    |
| logging    | Show logging configuration and contents of logfile |
| rate-limit | Show rate limit configuration                      |

## Command Mode

- /exec

# show logging rfc-strict

show logging rfc-strict

## Syntax Description

|            |  |
|------------|--|
| show       | Show running system information                    |
| logging    | Show logging configuration and contents of logfile |
| rfc-strict | Show RFC to which messages are compliant           |

## Command Mode

- /exec



# show logging server

```
show logging server [ __readonly__ [ <server_status> ] [ { TABLE_logserv <server> <forwarding> <severity>
<facility> <vrf> <port> [ <transport> ] } ] ]
```

## Syntax Description

|                            |  |
|----------------------------|--|
| <code>show</code>          | Show running system information                    |
| <code>logging</code>       | Show logging configuration and contents of logfile |
| <code>server</code>        | Show server logging configuration                  |
| <code>__readonly__</code>  | (Optional)   |
| <code>server_status</code> | (Optional) logging server configured               |
| <code>TABLE_logserv</code> | (Optional) output of show logging server           |
| <code>server</code>        | (Optional) remote server address                   |
| <code>forwarding</code>    | (Optional) remote server forwarding                |
| <code>severity</code>      | (Optional) remote server severity                  |
| <code>facility</code>      | (Optional) remote server facility                  |
| <code>vrf</code>           | (Optional) remote server vrf                       |
| <code>port</code>          | (Optional) remote server port                      |
| <code>transport</code>     | (Optional) remote server transport                 |

## Command Mode

- /exec

# show logging session status

show logging session status

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| session | Show logging session status                        |
| status  | Show logging session status                        |

## Command Mode

- /exec

# show logging source-interface

show logging source-interface

## Syntax Description

|                  |  |
|------------------|--|
| show             | Show running system information                    |
| logging          | Show logging configuration and contents of logfile |
| source-interface | Show logging source-interface configuration        |

## Command Mode

- /exec

# show logging status

show logging status

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information                    |
| logging | Show logging configuration and contents of logfile |
| status  | Show logging status                                |

## Command Mode

- /exec

# show logging timestamp

show logging timestamp

## Syntax Description

|           |  |
|-----------|--|
| show      | Show running system information                    |
| logging   | Show logging configuration and contents of logfile |
| timestamp | Show logging timestamp configuration               |

## Command Mode

- /exec

# show login on-failure log

show login on-failure log [ \_\_readonly\_\_ [ <status> ] ]

## Syntax Description

|               |   |
|---------------|---|
| show          | show  |
| login         | login   |
| on-failure    | authentication failure                              |
| log           | Log   |
| __readonly__  | (Optional)  |
| <i>status</i> | (Optional) login on failure log enabled or disabled |

## Command Mode

- /exec

# show login on-successful log

show login on-successful log [ \_\_readonly\_\_ [ <status> ] ]

## Syntax Description

|               |  |
|---------------|--|
| show          | show   |
| login         | login  |
| on-successful | authentication successful                              |
| log           | Log  |
| __readonly__  | (Optional)   |
| <i>status</i> | (Optional) login on successful log enabled or disabled |

## Command Mode

- /exec

**show login on-successful log**





## M Show Commands

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- [show mac-list](#), on page 1627
- [show mac address-table](#), on page 1628
- [show mac address-table](#), on page 1630
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- [show mac address-table count](#), on page 1633
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- [show mac address-table loop-detect](#), on page 1636
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## show mac-list

```
show mac-list { [ { <maclist-name> | <maclist-cfg-name> } [ { seq <seq_no> | { <mac_addr> [ <mac_mask> ] } ] ] ] } [ __readonly__ TABLE_mac_list <name> <seq> <action> <rule> ]
```

### Syntax Description

|                         |                                 |
|-------------------------|---------------------------------|
| show                    | Show running system information |
| mac-list                | Show mac-lists                  |
| <i>maclist-name</i>     | (Optional) Name of mac-list     |
| <i>maclist-cfg-name</i> | (Optional) Known mac-list name  |
| seq                     | (Optional) Sequence number      |
| <i>seq_no</i>           | (Optional) Sequence number      |
| <i>mac_addr</i>         | (Optional) MAC address          |
| <i>mac_mask</i>         | (Optional) MAC mask             |
| <i>__readonly__</i>     | (Optional)                      |
| TABLE_mac_list          | (Optional)                      |
| <i>name</i>             | (Optional)                      |
| <i>seq</i>              | (Optional)                      |
| <i>action</i>           | (Optional)                      |
| <i>rule</i>             | (Optional)                      |

### Command Mode

- /exec

## show mac address-table

```
show mac address-table <module> [ count ] [ static | dynamic | secure ] [ { [ address1 <mac-addr> | { switch-id
<swid> [ sub-switch-id <sswid> ] } | vlan1 <id> | [ vdc1 <vdc> | <e-vdc> ] | fe1 <feid> ] + } | { [ address
<mac-addr> | interface <interface-name> | vlan <id> | [ vdc <vdc> | <e-vdc> ] | fe <feid> ] + } } [ hex ] [
__readonly__ <entrycount> <l2entry> <header> <pi_e> <age> <rm> <ifname> <sec> <ntfy> <type> ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | show                                      |
| mac                   | MAC configuration commands                |
| address-table         | MAC Address Table                         |
| <i>module</i>         | Module Number                             |
| count                 | (Optional) Number of entries              |
| static                | (Optional) Display Static Entries         |
| dynamic               | (Optional) Display Dynamic Entries        |
| secure                | (Optional) Display Secure Entries         |
| address               | (Optional) address                        |
| address1              | (Optional) address                        |
| <i>mac-addr</i>       | (Optional) MAC Address                    |
| switch-id             | (Optional) Remote Switch ID               |
| <i>swid</i>           | (Optional) Switch ID                      |
| sub-switch-id         | (Optional) Remote Sub Switch ID           |
| <i>sswid</i>          | (Optional) Sub Switch ID                  |
| interface             | (Optional) Interface                      |
| <i>interface-name</i> | (Optional) Interface name                 |
| vlan                  | (Optional) VLAN                           |
| vlan1                 | (Optional) VLAN                           |
| <i>id</i>             | (Optional) VLAN ID                        |
| vdc                   | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| vdc1                  | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>vdc</i>            | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |

|                     |   |
|---------------------|---|
| <i>e-vdc</i>        | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>fe</i>           | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>fe1</i>          | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>feid</i>         | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>hex</i>          | (Optional) display swid/sswid/lid in hex  |
| <i>__readonly__</i> | (Optional)                                |
| <i>header</i>       | (Optional) Header                         |
| <i>pi_e</i>         | (Optional) Primary Interface of EARL      |
| <i>age</i>          | (Optional) Last seen age in seconds       |
| <i>rm</i>           | (Optional) RM                             |
| <i>ifname</i>       | (Optional) interface name as string       |
| <i>sec</i>          | (Optional) secure                         |
| <i>ntfy</i>         | (Optional) notify                         |
| <i>entrycount</i>   | (Optional) Number of L2 entries           |
| <i>l2entry</i>      | (Optional) L2 Entry String                |
| <i>type</i>         | (Optional) MAC type - Static or Dynamic   |

**Command Mode**

- /exec

## show mac address-table

```
show mac address-table [ static | dynamic | secure ] [ local ] [ { [ address1 <mac-addr> | { switch-id <swid>
[ sub-switch-id <sswid> ] } | vlan1 <id> ] + } | { [ address <mac-addr> | interface <interface-name> | vlan
<id> ] + } | { [ address2 <mac-addr> | interface1 <interface-name> | vni <vni-id> | [ peer-ip <peer-ipv4> |
peer-ipv6 <peer-ipv6> ] ] + } | { [ address3 <mac-addr> | interface2 <interface-name> | vni1 <vni-id> | es {
<esid-opt1> | <esid-opt2> | all } ] + } ] [ __readonly__ [ { TABLE_mac_address
<disp_mac_addr><disp_type><disp_vlan> [ <disp_is_static> ]
<disp_age><disp_is_secure><disp_is_ntfy><disp_port> } ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | show  |
| mac                   | MAC configuration commands  |
| address-table         | MAC Address Table   |
| static                | (Optional) Display Static Entries   |
| dynamic               | (Optional) Display Dynamic Entries  |
| secure                | (Optional) Display Secure Entries   |
| local                 | (Optional) Display MAC Entries Learned Locally and Not on the Overlay/VXLAN |
| address               | (Optional) address  |
| address1              | (Optional) address  |
| address2              | (Optional) address  |
| address3              | (Optional) address  |
| <i>mac-addr</i>       | (Optional) MAC Address  |
| switch-id             | (Optional) Remote Switch ID   |
| <i>swid</i>           | (Optional) Switch ID  |
| sub-switch-id         | (Optional) Remote Sub Switch ID   |
| <i>sswid</i>          | (Optional) Sub Switch ID  |
| interface             | (Optional) Interface  |
| interface1            | (Optional) Interface  |
| <i>interface-name</i> | (Optional) Interface name   |
| interface2            | (Optional) Interface  |
| <i>interface-name</i> | (Optional) Interface name   |

|                       |   |
|-----------------------|---|
| vlan                  | (Optional) VLAN                                     |
| vlan1                 | (Optional) VLAN                                     |
| <i>id</i>             | (Optional) VLAN ID                                  |
| vni                   | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED           |
| vni1                  | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED           |
| <i>vni-id</i>         | (Optional) VXLAN Network Identifier                 |
| peer-ip               | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED           |
| <i>peer-ipv4</i>      | (Optional) VXLAN Peer IP Address                    |
| peer-ipv6             | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED           |
| es                    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED           |
| <i>esid-opt1</i>      | (Optional) EE:EE:EE:EE:EE:EE:EE:EE:EE ESID Option 1 |
| <i>esid-opt2</i>      | (Optional) EEEE.EEEE.EEEE.EEEE.EEEE ESID Option 2   |
| all                   | (Optional) all ESIs                                 |
| __readonly__          | (Optional)  |
| TABLE_mac_address     | (Optional) Mac address table                        |
| <i>disp_is_static</i> | (Optional) Static/Dynamic                           |

**Command Mode**

- /exec

## show mac address-table aging-time

show mac address-table aging-time [ *\_\_readonly\_\_* <age\_str> <age> ]

### Syntax Description

|                     |                            |
|---------------------|----------------------------|
| show                | show                       |
| mac                 | MAC configuration commands |
| address-table       | MAC Address Table          |
| aging-time          | Configured/default age     |
| <i>__readonly__</i> | (Optional)                 |
| <i>age_str</i>      | (Optional) Age info        |
| <i>age</i>          | (Optional) Age time        |

### Command Mode

- /exec



## show mac address-table count

```
show mac address-table count [ static | dynamic | secure ] [ local ] [ { [ interface <interface-name> | switch-id
<swid> [ sub-switch-id <sswid> ] } | vlan <id> ] + } | { [ interface1 <interface-name> | vni <vni-id> | [ peer-ip
<peer-ipv4> | peer-ipv6 <peer-ipv6> ] ] + } ] [ __readonly__ TABLE-macaddtblcount [ <id-out> ] [ <count_str>
] [ <total_cnt> ] [ <dyn_cnt> ] [ <otv_cnt> ] [ <static_cnt> ] [ <secure_cnt> ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | show  |
| mac                   | MAC configuration commands  |
| address-table         | MAC Address Table   |
| count                 | Number of MAC entries   |
| static                | (Optional) Display Static Entries   |
| dynamic               | (Optional) Display Dynamic Entries  |
| secure                | (Optional) Display Secure Entries   |
| local                 | (Optional) Display MAC Entries Learned Locally and Not on the Overlay/VXLAN |
| vlan                  | (Optional) VLAN   |
| <i>id</i>             | (Optional) VLAN ID  |
| interface             | (Optional) Interface  |
| interface1            | (Optional) Interface  |
| <i>interface-name</i> | (Optional) Interface name   |
| switch-id             | (Optional) Remote Switch ID   |
| <i>swid</i>           | (Optional) Switch ID  |
| sub-switch-id         | (Optional) Remote Sub Switch ID   |
| <i>sswid</i>          | (Optional) Sub Switch ID  |
| vni                   | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                                   |
| <i>vni-id</i>         | (Optional) VXLAN Network Identifier   |
| peer-ip               | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                                   |
| <i>peer-ipv4</i>      | (Optional) VXLAN Peer IP Address  |
| peer-ipv6             | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                                   |
| <i>__readonly__</i>   | (Optional)  |

|                      |  |
|----------------------|--|
| TABLE-macaddtblcount | (Optional) MAC Address Dynamic Count Table |
| <i>id-out</i>        | (Optional) MAC Address Table VLAN ID       |
| <i>count_str</i>     | (Optional) Count info                      |
| <i>total_cnt</i>     | (Optional) Total count                     |
| <i>dyn_cnt</i>       | (Optional) Dynamic count                   |
| <i>otv_cnt</i>       | (Optional) OTV count                       |
| <i>static_cnt</i>    | (Optional) Static count                    |
| <i>secure_cnt</i>    | (Optional) Secure count                    |

**Command Mode**

- /exec

## show mac address-table learning-mode

```
show mac address-table learning-mode [ vlan <id> ] [ __readonly__ <learning_mode_str> <vlan_id>
<mode_str> ]
```

### Syntax Description

|                          |                            |
|--------------------------|----------------------------|
| show                     | show                       |
| mac                      | MAC configuration commands |
| address-table            | MAC Address Table          |
| learning-mode            | Learning Mode              |
| vlan                     | (Optional) VLAN            |
| <i>id</i>                | (Optional) VLAN ID         |
| <i>__readonly__</i>      | (Optional)                 |
| <i>learning_mode_str</i> | (Optional) Learning Mode   |
| <i>vlan_id</i>           | (Optional) VLAN ID         |
| <i>mode_str</i>          | (Optional) Mode            |

### Command Mode

- /exec

# show mac address-table loop-detect

show mac address-table loop-detect [ \_\_readonly\_\_ <port\_loop\_detect> ]

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    | show   |
| mac                     | MAC configuration commands   |
| address-table           | MAC Address Table  |
| loop-detect             | Display Action for Mac Loop Detection                                      |
| __readonly__            | (Optional)   |
| <i>port_loop_detect</i> | (Optional) Display Port Down Action Mac Loop Detect is enabled or disabled |

## Command Mode

- /exec

## show mac address-table multicast

```
show mac address-table multicast [ vlan <vlan> | bridge-domain <bdid> ] [ __readonly__ [ TABLE_mac [
<vlan-id> ] [ <mac-addr> ] [ <type> ] [ <age> ] [ TABLE_oif [ <oifs> ] ] ] ] ]
```

### Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| mac                 | MAC configuration commands      |
| address-table       | MAC Address Table               |
| multicast           | mcast mac OIF Static Entry      |
| vlan                | (Optional) VLAN                 |
| <i>vlan</i>         | (Optional) VLAN                 |
| bridge-domain       | (Optional) BD                   |
| <i>bdid</i>         | (Optional) BD                   |
| <i>__readonly__</i> | (Optional)                      |
| TABLE_mac           | (Optional)                      |
| <i>vlan-id</i>      | (Optional)                      |
| <i>mac-addr</i>     | (Optional)                      |
| <i>type</i>         | (Optional)                      |
| <i>age</i>          | (Optional)                      |
| TABLE_oif           | (Optional)                      |
| <i>oifs</i>         | (Optional)                      |

### Command Mode

- /exec

## show mac address-table notification mac-move

show mac address-table notification mac-move [ *\_\_readonly\_\_* *TABLE\_mac\_notif* <*disp\_mm\_status*> <*disp\_mm\_triggers*> <*disp\_macs\_added*> <*disp\_macs\_moved*> <*disp\_macs\_removed*> ]

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | show  |
| mac                      | MAC configuration commands                              |
| address-table            | MAC Address Table                                       |
| notification             | Display Notification Information                        |
| mac-move                 | Mac Move Notification                                   |
| <i>__readonly__</i>      | (Optional) Read Only                                    |
| <i>TABLE_mac_notif</i>   | (Optional) Mac address notification table               |
| <i>disp_mm_status</i>    | (Optional) Mac Move Status                              |
| <i>disp_mm_triggers</i>  | (Optional) # of triggers                                |
| <i>disp_macs_added</i>   | (Optional) Number of MACs added since system bring up   |
| <i>disp_macs_removed</i> | (Optional) Number of MACs removed since system bring up |
| <i>disp_macs_moved</i>   | (Optional) Number of MACs moved since system bring up   |

### Command Mode

- /exec

# show mac scalar

```
show mac scalar [ __readonly__ <cmnMACMoveAddress> <cmnMACMoveVlanNumber>
<cmnMACMoveFromPortId> <cmnMACMoveToPortId> <cmnMACMoveTime> ]
```

## Syntax Description

|                             |                                 |
|-----------------------------|---------------------------------|
| show                        | Show running system information |
| mac                         | MAC configuration commands      |
| scalar                      | cmn mib scalars                 |
| __readonly__                | (Optional)                      |
| <i>cmnMACMoveAddress</i>    | (Optional) mac move address     |
| <i>cmnMACMoveVlanNumber</i> | (Optional) mac vlan number      |
| <i>cmnMACMoveFromPortId</i> | (Optional) from port id         |
| <i>cmnMACMoveToPortId</i>   | (Optional) to port id           |
| <i>cmnMACMoveTime</i>       | (Optional) move time            |

## Command Mode

- /exec

## show macsec mka

```
show macsec mka [ summary ] [ __readonly__ [ <macsec_status> ] [ TABLE_mka_summary <ifname>
<status> <cipher> <keyserver> <policy> <keychain> <fallback_keychain> ] ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information                   |
| macsec                   | Show MACSEC information                           |
| mka                      | Show MKA information                              |
| summary                  | (Optional) Show MKA summary information           |
| __readonly__             | (Optional)  |
| <i>macsec_status</i>     | (Optional) Macsec status                          |
| TABLE_mka_summary        | (Optional)  |
| <i>ifname</i>            | (Optional) Interface                              |
| <i>status</i>            | (Optional) MACSEC Session status                  |
| <i>cipher</i>            | (Optional) Operational MACSEC Cipher-suite        |
| <i>keyserver</i>         | (Optional) Is this acting as interface key-server |
| <i>policy</i>            | (Optional) MACSEC Policy applied to interface     |
| <i>keychain</i>          | (Optional) Keychain associated with interface     |
| <i>fallback_keychain</i> | (Optional) Keychain associated with interface     |

### Command Mode

- /exec



## show macsec mka session

```
show macsec mka session [ interface <ifname> ] [ details ] [ __readonly__ [ <macsec_status> ] [
TABLE_mka_session <ifname> <sci> <peers> <status> <keyserver><ca_auth_mode> ] [ <sessions>
<active_sessions> <pending_sessions> ] [ TABLE_mka_session_details <ifname> <status> <sci> <ssci>
<port_id> <ckn> <ca_auth_mode> <mi> <mn> <policy> <ks_prio> <keyserver> <include_icv_indicator>
<cipher> <cipher_operational> <window> <conf_offset> <conf_offset_operational> <sak_status> <sak_an>
<sak_ki> <sak_kn> <last_sak_rekey_time> <peer_count> <mac_addr> <ether_type> [
TABLE_mka_peer_status <peer_mi> <rxsci> <icv_status> <last_rx_time> ] [ TABLE_mka_fallback
<fallback_ckn> <fallback_mi> <fallback_mn> [ TABLE_mka_fallback_peer <fallback_peer_mi>
<fallback_rxsci> <fallback_icv_status> <fallback_last_rx_time> ] ] ] ]
```

### Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show running system information            |
| macsec                       | Show MACSEC information                    |
| mka                          | Show MKA information                       |
| session                      | Show MKA session information               |
| interface                    | (Optional) Specify interface               |
| <i>ifname</i>                | (Optional) Interface list                  |
| details                      | (Optional) Show MKA detailed information   |
| <u>__readonly__</u>          | (Optional)                                 |
| <i>macsec_status</i>         | (Optional) macsec status                   |
| TABLE_mka_session            | (Optional)                                 |
| <i>ifname</i>                | (Optional) Interface                       |
| <i>sci</i>                   | (Optional) Interface local TxSCI           |
| <i>peers</i>                 | (Optional) Number of Peers                 |
| <i>status</i>                | (Optional) Macsec status of Interface      |
| <i>keyserver</i>             | (Optional) Interface keyserver             |
| <i>include_icv_indicator</i> | (Optional) Include ICV indicator in MKDPUs |
| <i>ca_auth_mode</i>          | (Optional) CA Authentication Mode          |
| TABLE_mka_session_details    | (Optional)                                 |
| <i>ifname</i>                | (Optional) Interface                       |
| <i>status</i>                | (Optional) Session Status                  |

|                                |   |
|--------------------------------|---|
| <i>sci</i>                     | (Optional) Interface local TxSCI              |
| <i>ssci</i>                    | (Optional) Interface local TxSSCI             |
| <i>port_id</i>                 | (Optional) MKA Port Identifier                |
| <i>ckn</i>                     | (Optional) CAK Name                           |
| <i>mi</i>                      | (Optional) Member Identifier                  |
| <i>mn</i>                      | (Optional) Message Number                     |
| <i>policy</i>                  | (Optional) MACSEC Policy                      |
| <i>ks_prio</i>                 | (Optional) Key-server Priority                |
| <i>cipher</i>                  | (Optional) MKA Cipher Suite                   |
| <i>cipher_operational</i>      | (Optional) MKA Cipher Suite Operational       |
| <i>window</i>                  | (Optional) Replay Window Size                 |
| <i>conf_offset</i>             | (Optional) Confidentiality Offset             |
| <i>conf_offset_operational</i> | (Optional) Confidentiality Offset Operational |
| <i>sak_status</i>              | (Optional) SAK Status                         |
| <i>sak_an</i>                  | (Optional) SAK AN                             |
| <i>sak_ki</i>                  | (Optional) SAK KI                             |
| <i>sak_kn</i>                  | (Optional) SAK KN                             |
| <i>last_sak_rekey_time</i>     | (Optional) Last SAK rekey                     |
| <i>peer_count</i>              | (Optional) Peer Count                         |
| <i>mac_addr</i>                | (Optional) Eapol Dest mac                     |
| <i>ether_type</i>              | (Optional) Eapol ether type                   |
| TABLE_mka_peer_status          | (Optional)                                    |
| <i>peer_mi</i>                 | (Optional) Peer MI                            |
| <i>rxsci</i>                   | (Optional) RxSCI                              |
| <i>icv_status</i>              | (Optional) Peer CAK                           |
| <i>last_rx_time</i>            | (Optional) Latest Rx MKPDU                    |
| TABLE_mka_fallback             | (Optional)                                    |
| <i>fallback_ckn</i>            | (Optional) Fallback CAK Name                  |
| <i>fallback_mi</i>             | (Optional) Fallback Member Identifier         |

|                              |                                      |
|------------------------------|--------------------------------------|
| <i>fallback_mn</i>           | (Optional) Fallback Message Number   |
| TABLE_mka_fallback_peer      | (Optional)                           |
| <i>fallback_peer_mi</i>      | (Optional) Peer MI                   |
| <i>fallback_rxsci</i>        | (Optional) RxSCI                     |
| <i>fallback_icv_status</i>   | (Optional) Peer CAK                  |
| <i>fallback_last_rx_time</i> | (Optional) Latest Rx MKPDU           |
| <i>sessions</i>              | (Optional) Total number of Sessions  |
| <i>active_sessions</i>       | (Optional) Count of Active Sessions  |
| <i>pending_sessions</i>      | (Optional) Count of Pending Sessions |

**Command Mode**

- /exec

## show macsec mka statistics

```

show macsec mka statistics [ interface <ifname> ][ __readonly__ [ <macsec_status> ] ] [ TABLE_mka_intf_stats
[ [ <ifname2> ] ] [ TABLE_ca_stats [ [ <ca_stat_chn> ] [ <ca_stat_pairwise_cak_rekey> ] [
<sa_stat_sak_generated> ] [ <sa_stat_sak_rekey> ] [ <sa_stat_sak_received> ] [ <sa_stat_sak_response_rx>
] [ <mkpdu_stat_mkpdu_tx> ] [ <mkpdu_stat_mkpdu_tx_distsak> ] [ <mkpdu_stat_mkpdu_rx> ] [
<mkpdu_stat_mkpdu_rx_distsak> ] ] ] [ TABLE_idb_stats [ [ <ca_stat_pairwise_cak_rekey> ] [
<sa_stat_sak_generated> ] [ <sa_stat_sak_rekey> ] [ <sa_stat_sak_received> ] [ <sa_stat_sak_response_rx>
] [ <mkpdu_stat_mkpdu_tx> ] [ <mkpdu_stat_mkpdu_tx_distsak> ] [ <mkpdu_stat_mkpdu_rx> ] [
<mkpdu_stat_mkpdu_rx_distsak> ] [ <idb_stat_mkpdu_tx_success> ] [ <idb_stat_mkpdu_tx_fail> ] [
<idb_stat_mkpdu_tx_pkt_build_fail> ] [ <idb_stat_mkpdu_no_tx_on_intf_down> ] [
<idb_stat_mkpdu_no_rx_on_intf_down> ] [ <idb_stat_mkpdu_rx_ca_notfound> ] [ <idb_stat_mkpdu_rx_error>
] [ <idb_stat_mkpdu_rx_success> ] [ <idb_stat_mkpdu_failure_rx_integrity_check_error> ] [
<idb_stat_mkpdu_failure_invalid_peer_mn_error> ] [ <idb_stat_mkpdu_failure_nonrecent_peerlist_mn_error>
] [ <idb_stat_mkpdu_failure_sakuse_kn_mismatch_error> ] [
<idb_stat_mkpdu_failure_sakuse_rx_not_set_error> ] [
<idb_stat_mkpdu_failure_sakuse_key_mi_mismatch_error> ] [
<idb_stat_mkpdu_failure_sakuse_an_not_in_use_error> ] [
<idb_stat_mkpdu_failure_sakuse_ks_rx_tx_not_set_error> ] [
<idb_stat_mkpdu_failure_sakuse_eapol_ethertype_mismatch_error> ] [
<idb_stat_mkpdu_failure_sakuse_eapol_destmac_mismatch_error> ] [
<idb_stat_sak_failure_sak_generate_error> ] [ <idb_stat_sak_failure_hash_generate_error> ] [
<idb_stat_sak_failure_sak_encryption_error> ] [ <idb_stat_sak_failure_sak_decryption_error> ] [
<idb_stat_sak_failure_ick_derivation_error> ] [ <idb_stat_sak_failure_kek_derivation_error> ] [
<idb_stat_sak_failure_invalid_macsec_capability_error> ] [ <idb_stat_macsec_failure_rx_sa_create_error>
] [ <idb_stat_macsec_failure_tx_sa_create_error> ] ] ] ] [ TABLE_mka_gbl_stats [ [ <session_secured> ] [
<session_deleted> ] [ <session_keepalive_timeout> ] [ <ca_stat_pairwise_cak_rekey> ] [
<sa_stat_sak_generated> ] [ <sa_stat_sak_rekey> ] [ <sa_stat_sak_received> ] [ <sa_stat_sak_response_rx>
] [ <mkpdu_stat_mkpdu_rx> ] [ <mkpdu_stat_mkpdu_rx_distsak> ] [ <mkpdu_stat_mkpdu_tx> ] [
<mkpdu_stat_mkpdu_tx_distsak> ] [ <mka_error_session_failure_bring_up_error> ] [
<mka_error_sak_failure_sak_generate_error> ] [ <mka_error_sak_failure_hash_generate_error> ] [
<mka_error_sak_failure_sak_encryption_error> ] [ <mka_error_sak_failure_sak_decryption_error> ] [
<mka_error_sak_failure_sak_cipher_mismatch_error> ] [ <mka_error_ca_failure_ick_derivation_error> ] [
<mka_error_ca_failure_kek_derivation_error> ] [ <mka_error_ca_failure_invalid_macsec_capability_error>
] [ <mka_error_macsec_failure_rx_sa_create_error> ] [ <mka_error_macsec_failure_tx_sa_create_error> ] [
<mka_error_mkpdu_failure_mkpdu_tx_error> ] [
<mka_error_mkpdu_failure_mkpdu_rx_integrity_check_error> ] [
<mka_error_mkpdu_failure_mkpdu_invalid_peer_mn_error> ] [
<mka_error_mkpdu_failure_mkpdu_nonrecent_peerlist_mn_error> ] [
<mka_error_mkpdu_failure_sakuse_kn_mismatch_error> ] [
<mka_error_mkpdu_failure_sakuse_rx_not_set_error> ] [
<mka_error_mkpdu_failure_sakuse_key_mi_mismatch_error> ] [
<mka_error_mkpdu_failure_sakuse_an_not_in_use_error> ] [
<mka_error_mkpdu_failure_sakuse_ks_rx_tx_not_set_error> ] [ <global_stats_mkpdu_rx_invalid_chn> ] [
<global_stats_mkpdu_tx_pkt_build_fail> ] ] ] ] ] ]

```

### Syntax Description

|        |                                 |
|--------|---------------------------------|
| show   | Show running system information |
| macsec | Show MACSEC information         |

|  |  |
|--|--|
| <code>mka</code>                         | Show MKA information                                 |
| <code>statistics</code>                  | Show MKA statistics                                  |
| <code>interface</code>                   | (Optional) Specify interface                         |
| <code>ifname</code>                      | (Optional) Interface list                            |
| <code>__readonly__</code>                | (Optional)   |
| <code>macsec_status</code>               | (Optional) Macsec status                             |
| <code>TABLE_mka_intf_stats</code>        | (Optional) MKA Interface statistics                  |
| <code>TABLE_ca_stats</code>              | (Optional) CA Statistics                             |
| <code>ca_stat_ckn</code>                 | (Optional) CA Statistics CKN                         |
| <code>ca_stat_pairwise_cak_rekey</code>  | (Optional) CA Statistics Pairwise CAK Rekey          |
| <code>sa_stat_sak_generated</code>       | (Optional) SA Statistics SAK generated               |
| <code>sa_stat_sak_rekey</code>           | (Optional) SA Statistics SAK rekey                   |
| <code>sa_stat_sak_received</code>        | (Optional) SA Statistics SAK received                |
| <code>sa_stat_sak_response_rx</code>     | (Optional) SA Statistics SAK response received       |
| <code>mkpdu_stat_mkpdu_tx</code>         | (Optional) MKPDU Statistics MKPDU Tx                 |
| <code>mkpdu_stat_mkpdu_tx_distsak</code> | (Optional) MKPDU Statistics MKPDU Tx distributed SAK |
| <code>mkpdu_stat_mkpdu_rx</code>         | (Optional) MKPDU Statistics MKPDU Rx                 |
| <code>mkpdu_stat_mkpdu_rx_distsak</code> | (Optional) MKPDU Statistics MKPDU Rx distributed SAK |
| <code>TABLE_idb_stats</code>             | (Optional) IDB Statistics                            |
| <code>ca_stat_pairwise_cak_rekey</code>  | (Optional) CA Statistics pairwise CAK rekey          |
| <code>sa_stat_sak_generated</code>       | (Optional) SA Statistics SAK generated               |
| <code>sa_stat_sak_rekey</code>           | (Optional) SA Statistics SAK rekey                   |
| <code>sa_stat_sak_received</code>        | (Optional) SA Statistics SAK received                |
| <code>sa_stat_sak_response_rx</code>     | (Optional) SA Statistics SAK response received       |
| <code>mkpdu_stat_mkpdu_tx</code>         | (Optional) MKPDU Statistics MKPDU Tx                 |
| <code>mkpdu_stat_mkpdu_tx_distsak</code> | (Optional) MKPDU Statistics MKPDU Tx distributed SAK |
| <code>mkpdu_stat_mkpdu_rx</code>         | (Optional) MKPDU Statistics MKPDU Rx                 |
| <code>mkpdu_stat_mkpdu_rx_distsak</code> | (Optional) MKPDU Statistics MKPDU Rx distributed SAK |
| <code>idb_stat_mkpdu_tx_success</code>   | (Optional) IDB Statistics MKPDU Tx success           |

## show macsec mka statistics

|   |   |
|---|---|
| <i>idb_stat_mkpdu_tx_fail</i>                                       | (Optional) IDB Statistics MKPDU Tx fail   |
| <i>idb_stat_mkpdu_tx_pkt_build_fail</i>                             | (Optional) IDB Statistics MKPDU Tx packet build fail                              |
| <i>idb_stat_mkpdu_no_tx_on_intf_down</i>                            | (Optional) IDB Statistics MKPDU no Tx on interface down                           |
| <i>idb_stat_mkpdu_no_rx_on_intf_down</i>                            | (Optional) IDB Statistics MKPDU no Rx on interface down                           |
| <i>idb_stat_mkpdu_rx_ca_notfound</i>                                | (Optional) IDB Statistics MKPDU Rx CA not found                                   |
| <i>idb_stat_mkpdu_rx_error</i>                                      | (Optional) IDB Statistics MKPDU Rx error  |
| <i>idb_stat_mkpdu_rx_success</i>                                    | (Optional) IDB Statistics MKPDU Rx success  |
| <i>idb_stat_mkpdu_failure_rx_integrity_check_error</i>              | (Optional) IDB Statistics - MKPDU failure - Rx integrity check error              |
| <i>idb_stat_mkpdu_failure_invalid_peer_mn_error</i>                 | (Optional) IDB Statistics - MKPDU failure - invalid peer MN error                 |
| <i>idb_stat_mkpdu_failure_norecent_peerlist_mn_error</i>            | (Optional) IDB Statistics - MKPDU failure - non recent peerlist MN error          |
| <i>idb_stat_mkpdu_failure_sakuse_kn_mismatch_error</i>              | (Optional) IDB Statistics - MKPDU failure - SAKuse KN mismatch error              |
| <i>idb_stat_mkpdu_failure_sakuse_rx_not_set_error</i>               | (Optional) IDB Statistics - MKPDU failure - SAKuse Rx not set error               |
| <i>idb_stat_mkpdu_failure_sakuse_key_mi_mismatch_error</i>          | (Optional) IDB Statistics - MKPDU failure - SAKuse key MI mismatch error          |
| <i>idb_stat_mkpdu_failure_sakuse_an_not_in_use_error</i>            | (Optional) IDB Statistics - MKPDU failure - SAKuse AN not in use error            |
| <i>idb_stat_mkpdu_failure_sakuse_ks_rx_tx_not_set_error</i>         | (Optional) IDB Statistics - MKPDU failure - SAKuse KS Rx Tx not set error         |
| <i>idb_stat_mkpdu_failure_sakuse_eapol_ethertype_mismatch_error</i> | (Optional) IDB Statistics - MKPDU failure - SAKuse EAPOL ethertype mismatch error |
| <i>idb_stat_mkpdu_failure_sakuse_eapol_destmac_mismatch_error</i>   | (Optional) IDB Statistics - MKPDU failure - SAKuse EAPOL destMAC mismatch error   |
| <i>idb_stat_sak_failure_sak_generate_error</i>                      | (Optional) IDB Statistics - SAK failure - SAK generate error                      |
| <i>idb_stat_sak_failure_hash_generate_error</i>                     | (Optional) IDB Statistics - SAK failure - Hash generate error                     |
| <i>idb_stat_sak_failure_sak_encryption_error</i>                    | (Optional) IDB Statistics - SAK failure - SAK encryption error                    |
| <i>idb_stat_sak_failure_sak_decryption_error</i>                    | (Optional) IDB Statistics - SAK failure - SAK decryption error                    |
| <i>idb_stat_sak_failure_ick_derivation_error</i>                    | (Optional) IDB Statistics - SAK failure - ICK derivation error                    |
| <i>idb_stat_sak_failure_kek_derivation_error</i>                    | (Optional) IDB Statistics - SAK failure - KEK derivation error                    |
| <i>idb_stat_sak_failure_invalid_macsec_capability_error</i>         | (Optional) IDB Statistics - SAK failure - invalid MACsec capability error         |

|   |   |
|---|---|
| <i>idb_stat_macsec_failure_rx_sa_create_error</i>             | (Optional) IDB Statistics - SAK failure - Rx SA create error          |
| <i>idb_stat_macsec_failure_tx_sa_create_error</i>             | (Optional) IDB Statistics - SAK failure - Tx SA create error          |
| TABLE_mka_gbl_stats   | (Optional) MKA Global Statistics                                      |
| <i>session_secured</i>  | (Optional) Session secured Events                                     |
| <i>session_deleted</i>  | (Optional) Session deleted Events                                     |
| <i>session_keepalive_timeout</i>                              | (Optional) Session keepalive timeout Events                           |
| <i>ca_stat_pairwise_cak_rekey</i>                             | (Optional) CA Statistics pairwise CAK rekey                           |
| <i>sa_stat_sak_generated</i>                                  | (Optional) SA Statistics SAK generated                                |
| <i>sa_stat_sak_rekey</i>                                      | (Optional) SA Statistics SAK rekey                                    |
| <i>sa_stat_sak_received</i>                                   | (Optional) SA Statistics SAK received                                 |
| <i>sa_stat_sak_response_rx</i>                                | (Optional) SA Statistics SAK response received                        |
| <i>mkpdu_stat_mkpdu_rx</i>                                    | (Optional) MKPDU Statistics MKPDU received                            |
| <i>mkpdu_stat_mkpdu_rx_distsak</i>                            | (Optional) MKPDU Statistics MKPDU received distributed SAK            |
| <i>mkpdu_stat_mkpdu_tx</i>                                    | (Optional) MKPDU Statistics MKPDU transmitted                         |
| <i>mkpdu_stat_mkpdu_tx_distsak</i>                            | (Optional) MKPDU Statistics MKPDU transmitted distributed SAK         |
| <i>mka_error_session_failure_bring_up_error</i>               | (Optional) MKA Error - Session failure - Bring up error               |
| <i>mka_error_sak_failure_sak_generate_error</i>               | (Optional) MKA Error - SAK failure - SAK generate error               |
| <i>mka_error_sak_failure_hash_generate_error</i>              | (Optional) MKA Error - SAK failure - Hash generate error              |
| <i>mka_error_sak_failure_sak_encryption_error</i>             | (Optional) MKA Error - SAK failure - SAK encryption error             |
| <i>mka_error_sak_failure_sak_decryption_error</i>             | (Optional) MKA Error - SAK failure - SAK decryption error             |
| <i>mka_error_sak_failure_sak_cipher_mismatch_error</i>        | (Optional) MKA Error - SAK failure - SAK Cipher mismatch error        |
| <i>mka_error_ca_failure_ick_derivation_error</i>              | (Optional) MKA Error - CA failure - ICK derivation error              |
| <i>mka_error_ca_failure_kek_derivation_error</i>              | (Optional) MKA Error - CA failure - KEK derivation error              |
| <i>mka_error_ca_failure_invalid_macsec_capability_error</i>   | (Optional) MKA Error - CA failure - Invalid MACsec capability error   |
| <i>mka_error_macsec_failure_rx_sa_create_error</i>            | (Optional) MKA Error - MACsec failure - Rx SA create error            |
| <i>mka_error_macsec_failure_tx_sa_create_error</i>            | (Optional) MKA Error - MACsec failure - Tx SA create error            |
| <i>mka_error_mkpdu_failure_mkpdu_tx_error</i>                 | (Optional) MKA Error - MKPDU failure - MKPDU Tx error                 |
| <i>mka_error_mkpdu_failure_mkpdu_rx_integrity_check_error</i> | (Optional) MKA Error - MKPDU failure - MKPDU Rx integrity check error |

## show macsec mka statistics

|  |  |
|--|--|
| <i>mka_enor_mkpdu_failure_mkpdu_invalid_peer_mn_enor</i>       | (Optional) MKA Error - MKPDU failure - invalid peer MN error         |
| <i>mka_enor_mkpdu_failure_mkpdu_nonrecent_peerlist_mn_enor</i> | (Optional) MKA Error - MKPDU failure - non recent peerlist MN error  |
| <i>mka_enor_mkpdu_failure_sakuse_kn_mismatch_enor</i>          | (Optional) MKA Error - MKPDU failure - SAKuse KN mismatch error      |
| <i>mka_enor_mkpdu_failure_sakuse_rx_not_set_enor</i>           | (Optional) MKA Error - MKPDU failure - SAKuse Rx not set error       |
| <i>mka_enor_mkpdu_failure_sakuse_key_mi_mismatch_enor</i>      | (Optional) MKA Error - MKPDU failure - SAKuse key MI mismatch error  |
| <i>mka_enor_mkpdu_failure_sakuse_an_not_in_use_enor</i>        | (Optional) MKA Error - MKPDU failure - SAKuse AN not in use error    |
| <i>mka_enor_mkpdu_failure_sakuse_ks_rx_tx_not_set_enor</i>     | (Optional) MKA Error - MKPDU failure - SAKuse KS Rx Tx not set error |
| <i>global_stats_mkpdu_rx_invalid_ckn</i>                       | (Optional) Global Statistics MKPDU received invalid CKN              |
| <i>global_stats_mkpdu_tx_pkt_build_fail</i>                    | (Optional) Global Statistics Transmit Pkt build fail                 |
| <i>ifname2</i>   | (Optional) MACSEC Interface Name                                     |

**Command Mode**

- /exec



## show macsec policy

```
show macsec policy [ <policy_name> ] [ __readonly__ { TABLE_macsec_policy <name> <cipher_suite>
<keyserver_priority> <window_size> <conf_offset> <security_policy> <sak-expiry-time>
<include_icv_indicator> } ]
```

### Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show running system information            |
| macsec                       | Show MACSEC policy information             |
| policy                       | Show MACSEC policy information             |
| <i>policy_name</i>           | (Optional) Name of MACSEC Policy           |
| <i>__readonly__</i>          | (Optional)                                 |
| TABLE_macsec_policy          | (Optional)                                 |
| <i>name</i>                  | (Optional) MACSEC Policy Name              |
| <i>cipher_suite</i>          | (Optional) Cipher Suite                    |
| <i>keyserver_priority</i>    | (Optional) KeyServer Priority              |
| <i>window_size</i>           | (Optional) Window Size                     |
| <i>conf_offset</i>           | (Optional) Confidentiality Offset          |
| <i>security_policy</i>       | (Optional) Security Policy                 |
| <i>sak-expiry-time</i>       | (Optional) SAK expiry on time interval     |
| <i>include_icv_indicator</i> | (Optional) Include ICV indicator in MKPDUs |

### Command Mode

- /exec



|  |  |
|--|--|
| <i>in_pkts_unicast_controlled</i>      | (Optional) In Pkts Unicast Controlled      |
| <i>in_pkts_multicast_controlled</i>    | (Optional) In Pkts Multicast Controlled    |
| <i>in_pkts_broadcast_controlled</i>    | (Optional) In Pkts Broadcast Controlled    |
| <i>in_pkts_controlled</i>              | (Optional) In Pkts Controlled              |
| <i>in_rx_drop_pkts_controlled</i>      | (Optional) In Rx Drop Pkts Controlled      |
| <i>in_rx_err_pkts_controlled</i>       | (Optional) In Rx Err Pkts Controlled       |
| <i>in_octets_uncontrolled</i>          | (Optional) In Octets Uncontrolled          |
| <i>in_octets_controlled</i>            | (Optional) In Octets Controlled            |
| <i>input_rate_uncontrolled_bps</i>     | (Optional) Input Rate Uncontrolled BPS     |
| <i>input_rate_uncontrolled_pps</i>     | (Optional) Input Rate Uncontrolled PPS     |
| <i>input_rate_controlled_bps</i>       | (Optional) Input Rate Controlled BPS       |
| <i>input_rate_controlled_pps</i>       | (Optional) Input Rate Controlled PPS       |
| <i>out_pkts_unicast_uncontrolled</i>   | (Optional) Out Pkts Unicast Uncontrolled   |
| <i>out_pkts_multicast_uncontrolled</i> | (Optional) Out Pkts Multicast Uncontrolled |
| <i>out_pkts_broadcast_uncontrolled</i> | (Optional) Out Pkts Broadcast Uncontrolled |
| <i>out_rx_drop_pkts_uncontrolled</i>   | (Optional) Out Rx Drop Pkts Uncontrolled   |
| <i>out_rx_err_pkts_uncontrolled</i>    | (Optional) Out Rx Err Pkts Uncontrolled    |
| <i>out_pkts_unicast_controlled</i>     | (Optional) Out Pkts Unicast Controlled     |
| <i>out_pkts_multicast_controlled</i>   | (Optional) Out Pkts Multicast Controlled   |
| <i>out_pkts_broadcast_controlled</i>   | (Optional) Out Pkts Broadcast Controlled   |
| <i>out_pkts_controlled</i>             | (Optional) Out Pkts Controlled             |
| <i>out_rx_drop_pkts_controlled</i>     | (Optional) Out Rx Drop Pkts Controlled     |
| <i>out_rx_err_pkts_controlled</i>      | (Optional) Out Rx Err Pkts Controlled      |
| <i>out_octets_uncontrolled</i>         | (Optional) Out Octets Uncontrolled         |
| <i>out_octets_controlled</i>           | (Optional) Out Octets Controlled           |
| <i>out_octets_common</i>               | (Optional) Out Octets Common               |
| <i>output_rate_uncontrolled_bps</i>    | (Optional) Output Rate Uncontrolled BPS    |
| <i>output_rate_uncontrolled_pps</i>    | (Optional) Output Rate Uncontrolled PPS    |
| <i>output_rate_controlled_bps</i>      | (Optional) Output Rate Controlled BPS      |

|                                     |  |
|-------------------------------------|--|
| <i>output_rate_controlled_pps</i>   | (Optional) Output Rate Controlled PPS      |
| <i>in_pkts_transform_error</i>      | (Optional) In Pkts Transform Error         |
| <i>in_pkts_control</i>              | (Optional) In Pkts Control                 |
| <i>in_pkts_untagged</i>             | (Optional) In Pkts Untagged                |
| <i>in_pkts_no_tag</i>               | (Optional) In Pkts No Tag                  |
| <i>in_pkts_badtag</i>               | (Optional) In Pkts Bad Tag                 |
| <i>in_pkts_no_sci</i>               | (Optional) In Pkts No SCI                  |
| <i>in_pkts_unknown_sci</i>          | (Optional) In Pkts Unknown SCI             |
| <i>in_pkts_tagged_ctrl</i>          | (Optional) In Pkts Tagged Control          |
| <i>out_pkts_transform_error</i>     | (Optional) Out Pkts Transform Error        |
| <i>out_pkts_control</i>             | (Optional) Out Pkts Control                |
| <i>out_pkts_untagged</i>            | (Optional) Out Pkts Untagged               |
| TABLE_rx_sa_an                      | (Optional) MACsec secy rx_sa_an statistics |
| <i>rx_sa_an</i>                     | (Optional) Rx SA AN                        |
| <i>in_pkts_unchecked</i>            | (Optional) In Pkts Unchecked               |
| <i>in_pkts_delayed</i>              | (Optional) In Pkts Delayed                 |
| <i>in_pkts_late</i>                 | (Optional) In Pkts Late                    |
| <i>in_pkts_ok</i>                   | (Optional) In Pkts OK                      |
| <i>in_pkts_invalid</i>              | (Optional) In Pkts Invalid                 |
| <i>in_pkts_not_valid</i>            | (Optional) In Pkts not Valid               |
| <i>in_pkts_not_using_sa</i>         | (Optional) In Pkts not using SA            |
| <i>in_pkts_unused_sa</i>            | (Optional) In Pkts Unused SA               |
| <i>in_octets_decrypted</i>          | (Optional) In Octets Decrypted             |
| <i>in_octets_validated</i>          | (Optional) In Octets Validated             |
| TABLE_tx_sa_an                      | (Optional) MACsec secy tx_sa_an statistics |
| <i>tx_sa_an</i>                     | (Optional) Tx SA AN                        |
| <i>out_pkts_encrypted_protected</i> | (Optional) Out Pkts Encrypted Protected    |
| <i>out_pkts_too_long</i>            | (Optional) Out Pkts too Long               |
| <i>out_pkts_sa_not_inuse</i>        | (Optional) Out Pkts SA not in use          |

|                                       |   |
|---------------------------------------|---|
| <i>out_octets_encrypted_protected</i> | (Optional) Out octets Encrypted Protected |
| <i>ifname2</i>                        | (Optional) MACSEC Interface Name          |

**Command Mode**

- /exec

# show maintenance maint-delay

show maintenance maint-delay [ \_\_readonly\_\_ <delay> ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information          |
| maintenance  | maintenance                              |
| maint-delay  | maintenance mode CLI release delay value |
| __readonly__ | (Optional)                               |
| <i>delay</i> | (Optional) delay value in seconds        |

## Command Mode

- /exec

## show maintenance on-reload reset-reasons

```
show maintenance on-reload reset-reasons [ __readonly__ [ TABLE_reset_reason <reset_reason> ] <rr_bitmap> ]
```

### Syntax Description

|                                 |  |
|---------------------------------|--|
| <code>show</code>               | Show running system information          |
| <code>maintenance</code>        | maintenance                              |
| <code>on-reload</code>          | on reload maintenance mode configuration |
| <code>reset-reasons</code>      | system reset reasons                     |
| <code>__readonly__</code>       | (Optional)                               |
| <code>TABLE_reset_reason</code> | (Optional)                               |
| <code>rr_bitmap</code>          | (Optional) reset reason bitmap           |
| <code>reset_reason</code>       | (Optional) system reset reason           |

### Command Mode

- /exec

# show maintenance profile

show maintenance profile [ <mode> ] [ \_\_readonly\_\_ TABLE\_profile <name> [ TABLE\_cfg <cfg> ] ]

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| maintenance         | maintenance                     |
| profile             | maintenance profile             |
| <i>mode</i>         | (Optional)                      |
| <i>__readonly__</i> | (Optional)                      |
| TABLE_profile       | (Optional)                      |
| <i>name</i>         | (Optional) profile name         |
| TABLE_cfg           | (Optional)                      |
| <i>cfg</i>          | (Optional) profile config       |

## Command Mode

- /exec



# show maintenance snapshot-delay

show maintenance snapshot-delay [ \_\_readonly\_\_ <delay> ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information        |
| maintenance    | maintenance                            |
| snapshot-delay | after_maintenance snapshot delay value |
| __readonly__   | (Optional)                             |
| <i>delay</i>   | (Optional) delay value in seconds      |

## Command Mode

- /exec

# show maintenance timeout

show maintenance timeout [ \_\_readonly\_\_ <timeout> ]

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| maintenance    | maintenance                     |
| timeout        | timeout value                   |
| __readonly__   | (Optional)                      |
| <i>timeout</i> | (Optional) timeout value        |

## Command Mode

- /exec

# show module

```
show module [ { <module> } | { <s0> [ <santa-cruz-range> ] } | { fabric [ <module> ] } ] [ __readonly__ {
TABLE_modinfo <modinf> <ports> <modtype> <model> <status> } [ { TABLE_modpwrinfo <modpwr>
<pwrstat> <reason> } ] [ { TABLE_modwwninfo <modwwn> <sw> <hw> <slottype> } [ { TABLE_modapplinfo
<modappl> <desc> <applver> } ] [ { TABLE_modmacinfo <modmac> <mac> <serialnum> } {
TABLE_moddiaginfo <mod> <diagstatus> } [ { TABLE_xbarinfo <xbarinf> <xbarports> <xbartype>
<xbarmodel> <xbarstatus> } ] [ { TABLE_xbarpwrinfo <xbarpwr> <xbarpwrstat> <xbarreason> } ] [ {
TABLE_xbarwwninfo <xbarwwn> <xbarsw> <xbarhw> <xbarwwnstr> } ] [ { TABLE_xbarmacinfo <xbarmac>
<xbarmacaddr> <xbarserialnum> } ] ] ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information         |
| module                  | Show module information                 |
| <i>module</i>           | (Optional) Enter module number          |
| <i>s0</i>               | (Optional) Show xbar information        |
| <i>santa-cruz-range</i> | (Optional) please enter the xbar number |
| fabric                  | (Optional) Show fabric information      |
| __readonly__            | (Optional)                              |
| TABLE_modinfo           | (Optional) Show Module info             |
| <i>modinf</i>           | (Optional) Module                       |
| <i>ports</i>            | (Optional) Num Ports                    |
| <i>modtype</i>          | (Optional) Module Type                  |
| <i>model</i>            | (Optional) Model                        |
| <i>status</i>           | (Optional) Status                       |
| TABLE_modpwrinfo        | (Optional) Mod Pwr Info                 |
| <i>modpwr</i>           | (Optional) Module                       |
| <i>pwrstat</i>          | (Optional) Power Status                 |
| <i>reason</i>           | (Optional) Reason                       |
| TABLE_modwwninfo        | (Optional) Mod WWN Info                 |
| <i>modwwn</i>           | (Optional) Module                       |
| <i>sw</i>               | (Optional) SW Ver                       |
| <i>hw</i>               | (Optional) HW Ver                       |

|                    |                                |
|--------------------|--------------------------------|
| <i>slottype</i>    | (Optional) Slot                |
| TABLE_modapplinfo  | (Optional) Mod Appl image info |
| <i>modappl</i>     | (Optional) Module              |
| <i>desc</i>        | (Optional) Image desc          |
| <i>applver</i>     | (Optional) Version             |
| TABLE_modmacinfo   | (Optional) Mod MAC Info        |
| <i>modmac</i>      | (Optional) Module              |
| <i>mac</i>         | (Optional) MAC                 |
| <i>serialnum</i>   | (Optional) Serial Num          |
| TABLE_moddiaginfo  | (Optional) Mod diag info       |
| <i>mod</i>         | (Optional) Module              |
| <i>diagstatus</i>  | (Optional) Diag status         |
| TABLE_xbarinfo     | (Optional) Show xbar info      |
| <i>xbarinf</i>     | (Optional) Module              |
| <i>xbarports</i>   | (Optional) Num Ports           |
| <i>xbartype</i>    | (Optional) Module Type         |
| <i>xbarmodel</i>   | (Optional) Model               |
| <i>xbarstatus</i>  | (Optional) Status              |
| TABLE_xbarpwrinfo  | (Optional) Xbar Pwr Info       |
| <i>xbarpwr</i>     | (Optional) Module              |
| <i>xbarpwrstat</i> | (Optional) Power Status        |
| <i>xbarreason</i>  | (Optional) Reason              |
| TABLE_xbarwwninfo  | (Optional) Xbar WWN Info       |
| <i>xbarwwn</i>     | (Optional) Module              |
| <i>xbarsw</i>      | (Optional) SW Ver              |
| <i>xbarhw</i>      | (Optional) HW Ver              |
| <i>xbarwwnstr</i>  | (Optional) WWN                 |
| TABLE_xbarmacinfo  | (Optional) Xbar MAC Info       |
| <i>xbarmac</i>     | (Optional) Module              |

|                      |                       |
|----------------------|-----------------------|
| <i>xbarmacaddr</i>   | (Optional) MAC        |
| <i>xbarserialnum</i> | (Optional) Serial Num |

**Command Mode**

- /exec

# show module bandwidth-fairness

show module <module> bandwidth-fairness [ \_\_readonly\_\_ { TABLE\_fairness <statement> } ]

## Syntax Description

|                    |                                 |
|--------------------|---------------------------------|
| show               | Show running system information |
| module             | Show module information         |
| <i>module</i>      | Enter module number             |
| bandwidth-fairness | Show bandwidth fairness status  |
| __readonly__       | (Optional)                      |
| TABLE_fairness     | (Optional)                      |
| <i>statement</i>   | (Optional)                      |

## Command Mode

- /exec

# show module uptime

```
show module uptime [ __readonly__ { TABLE_uptimeinf <slot> <starttime> <daysup> <hoursup> <minutesup>
<secondsup> } ]
```

## Syntax Description

|                  |  |
|------------------|--|
| show             | Show running system information                  |
| module           | Show module information                          |
| uptime           | Show how long the module has been up and running |
| __readonly__     | (Optional)                                       |
| TABLE_uptimeinf  | (Optional) Show uptime info                      |
| <i>slot</i>      | (Optional) Slot                                  |
| <i>starttime</i> | (Optional) Start Time                            |
| <i>daysup</i>    | (Optional) Days Up                               |
| <i>hoursup</i>   | (Optional) Hours Up                              |
| <i>minutesup</i> | (Optional) Minutes Up                            |
| <i>secondsup</i> | (Optional) Seconds Up                            |

## Command Mode

- /exec

# show monitor

show monitor [ *\_\_readonly\_\_* *TABLE\_session* <session\_number> <state> <state\_reason> <description> ]

## Syntax Description

|                       |                                 |
|-----------------------|---------------------------------|
| show                  | Show running system information |
| monitor               | Show Ethernet SPAN information  |
| <i>__readonly__</i>   | (Optional) Read only            |
| <i>TABLE_session</i>  | (Optional) show monitor         |
| <i>session_number</i> | (Optional) session id           |
| <i>state</i>          | (Optional) State                |
| <i>state_reason</i>   | (Optional) State reason         |
| <i>description</i>    | (Optional) Session Description  |

## Command Mode

- /exec



## show monitor session

```
show monitor session { all | <session_number> | warp | range <session_range> } [ { drops | brief } ] [
__readonly__ [ TABLE_session <session_number> [ <description> ] [ <type> ] [ <version> ] [ <state> ] [
<state_reason> ] [ <err_desc> ] [ <flow_id> ] [ <switch_id> ] [ <erspan_granularity> ] [ <vrf_name> ] [
<acl_name> ] [ <erspan_ttl> ] [ <erspan_dscp> ] [ <header_type> ] [ <span_mtu> ] [ <span_sampling> ] [
<ip_filter> ] + [ <dst_ip> ] [ <origin_ip> ] [ <src_ip> ] [ <control_pkt_filter> ] [ TABLE_sources_rx [
<sources_rx> ] ] [ TABLE_sources_tx [ <sources_tx> ] ] [ TABLE_sources_both [ <sources_both> ] ] [
<source_vlans_rx> ] [ <source_vlans_tx> ] [ <source_vlans_both> ] [ <source_vsans_rx> ] [ <tree-id>
<switchid> ] + [ <filter_vlans> ] [ <destinations> ] + [ <acl_destinations> ] + [ <rate_limit_cap> ] + [
<mtu_capability> ] + [ <sampling_capability> ] + [ <mcbe> ] + [ <l3_egress_span> ] + [ <erspan_acl> ] + [
<erspan_v3_cap> ] + [ <erspan_v2_cap> ] + [ <erspan_gran_cap> ] + [ <fex_ingress_intf> ] + [ <sources_rx_2>
] + [ <marker_time_intv> ] [ <marker_pkt_count> ] [ <marker_pkt_fail> ] [ <erspan_egress_if> ] [ <drops>
] [ <inactive> ] ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information         |
| monitor               | Show Ethernet SPAN information          |
| session               | Show session info                       |
| all                   | All sessions                            |
| <i>session_number</i> |   |
| warp                  | warp session                            |
| range                 | Specify a range                         |
| <i>session_range</i>  |   |
| brief                 | (Optional) Brief information            |
| drops                 | (Optional) show drop count              |
| <i>__readonly__</i>   | (Optional) Read only                    |
| TABLE_session         | (Optional) show monitor                 |
| <i>session_number</i> | (Optional) session number               |
| <i>description</i>    | (Optional) Session Description          |
| <i>type</i>           | (Optional) Session type                 |
| <i>version</i>        | (Optional) Erspan source version: v2/v3 |
| <i>state</i>          | (Optional) State                        |
| <i>state_reason</i>   | (Optional) State reason                 |
| <i>err_desc</i>       | (Optional) Error Description            |

|                           |   |
|---------------------------|---|
| <i>flow_id</i>            | (Optional) erspan-id                            |
| <i>switch_id</i>          | (Optional) erspan_switch-id                     |
| <i>erspan_granularity</i> | (Optional) ERSPAN Type III Granularity          |
| <i>vrf_name</i>           | (Optional) ERSPAN session VRF                   |
| <i>acl_name</i>           | (Optional) ERSPAN session ACL                   |
| <i>erspan_ttl</i>         | (Optional) ERSPAN TTL Value                     |
| <i>erspan_dscp</i>        | (Optional) ERSPAN DSCP Value                    |
| <i>header_type</i>        | (Optional) ERSPAN Header Type                   |
| <i>span_mtu</i>           | (Optional) SPAN MTU value                       |
| <i>span_sampling</i>      | (Optional) SPAN sampling range                  |
| <i>ip_filter</i>          | (Optional) IP filter value                      |
| <i>dst_ip</i>             | (Optional) ERSPAN destination IP                |
| <i>origin_ip</i>          | (Optional) ERSPAN origin IP at source router    |
| <i>src_ip</i>             | (Optional) ERSPAN source IP                     |
| <i>control_pkt_filter</i> | (Optional) Control packet filter value          |
| TABLE_sources_rx          | (Optional) ingress intf table                   |
| <i>sources_rx</i>         | (Optional) List of ingress sources              |
| TABLE_sources_tx          | (Optional) egress intf table                    |
| <i>sources_tx</i>         | (Optional) List of egress sources               |
| TABLE_sources_both        | (Optional) bi-direction intf table              |
| <i>sources_both</i>       | (Optional) List of sources in both directions   |
| <i>source_vlans_rx</i>    | (Optional) Source ingress vlan                  |
| <i>source_vlans_tx</i>    | (Optional) Source egress vlan                   |
| <i>source_vlans_both</i>  | (Optional) Source vlans in both directions      |
| <i>tree-id</i>            | (Optional) proxy layer2 gateway source tree-id  |
| <i>switchid</i>           | (Optional) proxy layer2 gateway source switchid |
| <i>filter_vlans</i>       | (Optional) Filter vlans                         |
| <i>destinations</i>       | (Optional) List of destinations                 |

|                            |   |
|----------------------------|---|
| <i>acl_destinations</i>    | (Optional) List of interfaces that wont work for acl capture      |
| <i>rate_limit_cap</i>      | (Optional) List of modules that support Rate Limit                |
| <i>mtu_capability</i>      | (Optional) List of modules that support MTU                       |
| <i>sampling_capability</i> | (Optional) List of modules that support Sampling                  |
| <i>mcbe</i>                | (Optional) List all modules that support multicast best effort    |
| <i>l3_egress_span</i>      | (Optional) List of modules that support L3 Multicast Egress SPAN  |
| <i>erspan_acl</i>          | (Optional) List of modules that support ERSPAN ACL filtering      |
| <i>erspan_v3_cap</i>       | (Optional) List of modules that support erspan version3           |
| <i>erspan_v2_cap</i>       | (Optional) List of modules that support erspan version2           |
| <i>erspan_gran_cap</i>     | (Optional) List of modules that support the granularity set       |
| <i>fex_ingress_intf</i>    | (Optional) List of fex interfaces that wont work for ingress span |
| <i>erspan_egress_if</i>    | (Optional) Egress interface for ERSPAN SRC session                |
| <i>sources_rx_2</i>        | (Optional) List of ingress sources                                |
| <i>marker_time_intv</i>    | (Optional) Marker packet interval                                 |
| <i>marker_pkt_count</i>    | (Optional) Marker packet count                                    |
| <i>marker_pkt_fail</i>     | (Optional) Marker packet fail count                               |
| <i>drops</i>               | (Optional) Drop count   |
| <i>inactive</i>            | (Optional) Session is inactive                                    |

**Command Mode**

- /exec

## show mpls forwarding statistics

```
show mpls forwarding statistics [ interface { <interface> | all } ] [ __readonly__ { TABLE_mpls_stats [
<intf_name> ] <mpls_packets_sent> <mpls_bytes_sent> <mpls_packets_received> <mpls_bytes_received>
<mpls_packets_forwarded> <mpls_bytes_forwarded> <mpls_packets_originated> <mpls_bytes_originated>
<mpls_packets_consumed> <mpls_bytes_consumed> <mpls_packets_input_dropped>
<mpls_bytes_input_dropped> <mpls_packets_output_dropped> <mpls_bytes_output_dropped> } ]
```

### Syntax Description

|                                    |   |
|------------------------------------|---|
| show                               | Show running system information                   |
| mpls                               | MPLS information                                  |
| forwarding                         | Display MPLS software forwarded                   |
| statistics                         | Traffic statistics                                |
| interface                          | (Optional) Interface specific information         |
| <i>interface</i>                   | (Optional) Interface chosen to display statistics |
| all                                | (Optional) All interfaces                         |
| <i>__readonly__</i>                | (Optional)  |
| TABLE_mpls_stats                   | (Optional) MPLS forwarding statistics             |
| <i>intf_name</i>                   | (Optional) Interface name                         |
| <i>mpls_packets_sent</i>           | (Optional) mpls packet sent                       |
| <i>mpls_bytes_sent</i>             | (Optional) mpls bytes sent                        |
| <i>mpls_packets_received</i>       | (Optional) mpls packet received                   |
| <i>mpls_bytes_received</i>         | (Optional) mpls bytes received                    |
| <i>mpls_packets_forwarded</i>      | (Optional) mpls packet forwarded                  |
| <i>mpls_bytes_forwarded</i>        | (Optional) mpls bytes forwarded                   |
| <i>mpls_packets_originated</i>     | (Optional) mpls packet originated                 |
| <i>mpls_bytes_originated</i>       | (Optional) mpls bytes originated                  |
| <i>mpls_packets_consumed</i>       | (Optional) mpls packet consumed                   |
| <i>mpls_bytes_consumed</i>         | (Optional) mpls bytes consumed                    |
| <i>mpls_packets_input_dropped</i>  | (Optional) mpls packet input dropped              |
| <i>mpls_bytes_input_dropped</i>    | (Optional) mpls bytes input dropped               |
| <i>mpls_packets_output_dropped</i> | (Optional) mpls packet output dropped             |

|                                  |                                      |
|----------------------------------|--------------------------------------|
| <i>mpls_bytes_output_dropped</i> | (Optional) mpls bytes output dropped |
|----------------------------------|--------------------------------------|

**Command Mode**

- /exec

# show mpls interfaces

show mpls interfaces [ *\_\_readonly\_\_* *TABLE\_mpls\_interface* <intf> <oper> ]

## Syntax Description

|                             |                                       |
|-----------------------------|---------------------------------------|
| show                        | Show running system information       |
| mpls                        | Display MPLS status and configuration |
| interfaces                  | Display MPLS Interfaces               |
| <i>__readonly__</i>         | (Optional)                            |
| <i>TABLE_mpls_interface</i> | (Optional)                            |
| <i>intf</i>                 | (Optional)                            |
| <i>oper</i>                 | (Optional)                            |

## Command Mode

- /exec

# show mpls interfaces detail

```
show mpls interfaces detail [ __readonly__ TABLE_mpls_interface_det <intf> <client_name> <oper_str>
<ls_id> <mpls_sublayer_name> <mpls_sublayer_id> ]
```

## Syntax Description

|                                 |                                       |
|---------------------------------|---------------------------------------|
| show                            | Show running system information       |
| mpls                            | Display MPLS status and configuration |
| interfaces                      | Interfaces                            |
| detail                          | Detail                                |
| <i>__readonly__</i>             | (Optional)                            |
| <i>TABLE_mpls_interface_det</i> | (Optional)                            |
| <i>intf</i>                     | (Optional)                            |
| <i>client_name</i>              | (Optional)                            |
| <i>oper_str</i>                 | (Optional)                            |
| <i>ls_id</i>                    | (Optional)                            |
| <i>mpls_sublayer_name</i>       | (Optional)                            |
| <i>mpls_sublayer_id</i>         | (Optional)                            |

## Command Mode

- /exec

## show mpls interfaces statistics

```
show mpls interfaces <ifname> statistics [ __readonly__ TABLE_mpls_interface_stats <intf> <enabled> [
<pkts_in> ] [ <bytes_in> ] [ <pkts_out> ] [ <bytes_out> ] ]
```

### Syntax Description

|                            |                                       |
|----------------------------|---------------------------------------|
| show                       | Show running system information       |
| mpls                       | Display MPLS status and configuration |
| interfaces                 | Interfaces                            |
| <i>ifname</i>              | Interface Name                        |
| statistics                 | statistics                            |
| <i>__readonly__</i>        | (Optional)                            |
| TABLE_mpls_interface_stats | (Optional)                            |
| <i>intf</i>                | (Optional)                            |
| <i>enabled</i>             | (Optional)                            |
| <i>pkts_in</i>             | (Optional)                            |
| <i>bytes_in</i>            | (Optional)                            |
| <i>pkts_out</i>            | (Optional)                            |
| <i>bytes_out</i>           | (Optional)                            |

### Command Mode

- /exec



## show mpls ip bindings

```
show mpls ip bindings [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ generic ] [ { <prefix> { <mask> |
<mask-length> } | <prefix-mask> } [ longer-prefix ] ] [ neighbor <addr> | local ] [ [ local-label <local-label>
[ local-to <local-label-max> ] ] ] [ remote-label <remote-label> [ remote-to <remote-label-max> ] ] ] [
advertisement-prefix-list | detail ] [ __readonly__ { TABLE_bnd [ <ldp_ctx> ] [ <llaf> ] [ {
TABLE_bnd_acl_list <oldstyle> <prefix_acl> <peer_acl> } ] [ { TABLE_bnd_rec <lib_addr> <lib_mask>
[ <lcl_bnd_rev> ] [ <no_route> ] [ <chkpt> ] [ <local_label> ] [ <withdraw> ] [ { TABLE_bnd_peer_list
<peer_ident> } ] [ <remote_label> ] [ <remote_lsr> ] [ <rem_lbl_in_use> ] [ <stale_gr> ] [
<advert_acl_pending> ] [ <peer_acl> ] [ <prefix_acl> ] } } ] ] ]
```

### Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information                        |
| mpls                   | Display MPLS status and configuration                  |
| ip                     | MPLS IP information                                    |
| bindings               | Show the MPLS IP Label Information Base (LIB)          |
| vrf                    | (Optional) VRF Routing/Forwarding instance information |
| <i>vrf-name</i>        | (Optional) VPN Routing/Forwarding instance name        |
| <i>vrf-known-name</i>  | (Optional) Known VRF name                              |
| all                    | (Optional) Display LIB information in all VRFs         |
| generic                | (Optional) Display generic labels                      |
| <i>prefix</i>          | (Optional) Destination prefix                          |
| <i>mask</i>            | (Optional) Destination prefix mask                     |
| <i>mask-length</i>     | (Optional) Mask length                                 |
| <i>prefix-mask</i>     | (Optional) Destination prefix/mask                     |
| longer-prefix          | (Optional) Include longer matches                      |
| neighbor               | (Optional) Display labels from LDP neighbor            |
| <i>addr</i>            | (Optional) IP adjacency address                        |
| local                  | (Optional) Display only locally assigned labels        |
| local-label            | (Optional) Match locally assigned label values         |
| <i>local-label</i>     | (Optional) Locally assigned label value                |
| local-to               | (Optional) Label range                                 |
| <i>local-label-max</i> | (Optional) Locally assigned label value                |

|                           |  |
|---------------------------|--|
| remote-label              | (Optional) Match remotely assigned label values                |
| <i>remote-label</i>       | (Optional) Remotely assigned label value                       |
| remote-to                 | (Optional) Label range   |
| <i>remote-label-max</i>   | (Optional) Remotely assigned label value                       |
| advertisement-prefix-list | (Optional) Show advertisement prefix lists                     |
| detail                    | (Optional) Show detailed information                           |
| __readonly__              | (Optional) Read Only   |
| TABLE_bnd                 | (Optional) Show bindings or tib summary for a vrf              |
| <i>ldp_ctx</i>            | (Optional) LDP context   |
| <i>llaf</i>               | (Optional) Local label filtering spec                          |
| TABLE_bnd_acl_list        | (Optional) Show advertisement access lists for default vrf     |
| <i>oldstyle</i>           | (Optional) Oldstyle assignment of prefix acls to entries       |
| <i>prefix_acl</i>         | (Optional) Prefix acl  |
| <i>peer_acl</i>           | (Optional) Peer acl  |
| TABLE_bnd_rec             | (Optional) Show bindings in a vrf                              |
| <i>lib_addr</i>           | (Optional) LIB entry IP address                                |
| <i>lib_mask</i>           | (Optional) LIB entry mask                                      |
| <i>lcl_bnd_rev</i>        | (Optional) Local binding revision for lib entry                |
| <i>no_route</i>           | (Optional) Displays if no route present for lib entry          |
| <i>chkpt</i>              | (Optional) Checkpoint state for lib entry                      |
| <i>local_label</i>        | (Optional) Local label   |
| <i>withdraw</i>           | (Optional) Displays if label withdrawn or label withdraw sent  |
| <i>remote_lsr</i>         | (Optional) Remote binding label switched route for lib entry   |
| <i>remote_label</i>       | (Optional) Remote label for lib entry                          |
| <i>rem_lbl_in_use</i>     | (Optional) Displays if out label is in use                     |
| <i>stale_gr</i>           | (Optional) Displays if stale GR binding for lib entry          |
| <i>advert_acl_pending</i> | (Optional) Displays if advert acl action pending for lib entry |
| <i>peer_acl</i>           | (Optional) Advertisement acl: Peer acl name for lib entry      |
| <i>prefix_acl</i>         | (Optional) Advertisement acl: Prefix acl name for lib entry    |

|                     |  |
|---------------------|--|
| TABLE_bnd_peer_list | (Optional) Show list of peers to which local label has been advertised |
| <i>peer_ident</i>   | (Optional) Peer to which local label has been advertised               |

**Command Mode**

- /exec

## show mpls ip bindings summary

```
show mpls ip bindings summary [ __readonly__ { TABLE_bnd [ <total_prefixes> ] [ <assigned_bindings>
] [ <local_bindings> ] [ <rem_bindings> ] [ <total_rt_info> ] [ <current_prev_lbl_entries> ] [
<total_prev_lbl_entries> ] [ <current_prev_lbl_queues> ] [ <total_prev_lbl_queues> } } ]
```

### Syntax Description

|                                 |  |
|---------------------------------|--|
| show                            | Show running system information  |
| mpls                            | Display MPLS status and configuration                                    |
| ip                              | MPLS IP information  |
| bindings                        | Show the MPLS IP Label Information Base (LIB)                            |
| summary                         | Show summary information   |
| <i>__readonly__</i>             | (Optional) Read Only   |
| <i>TABLE_bnd</i>                | (Optional) Show bindings or tib summary for a vrf                        |
| <i>total_prefixes</i>           | (Optional) Total number of prefixes                                      |
| <i>assigned_bindings</i>        | (Optional) Total number of assigned bindings                             |
| <i>total_rt_info</i>            | (Optional) Total tib route info allocated                                |
| <i>local_bindings</i>           | (Optional) Total number of locally assigned bindings                     |
| <i>rem_bindings</i>             | (Optional) Total number of remote bindings                               |
| <i>current_prev_lbl_entries</i> | (Optional) Current number of previous tib remote label entries allocated |
| <i>total_prev_lbl_entries</i>   | (Optional) Total number of previous tib remote label entries allocated   |
| <i>current_prev_lbl_queues</i>  | (Optional) Current number of previous tib remote label queues allocated  |
| <i>total_prev_lbl_queues</i>    | (Optional) Total number of previous tib remote label queues allocated    |

### Command Mode

- /exec

# show mpls ip ttl

```
show mpls ip ttl [ __readonly__ TABLE_mpls_ip_ttl <prop_or_exp> [ <forwarded> ] [ <local> ] [ <exp_count> ] ]
```

## Syntax Description

|                          |                                       |
|--------------------------|---------------------------------------|
| show                     | Show running system information       |
| mpls                     | Display MPLS status and configuration |
| ip                       | Display IP information                |
| ttl                      | TTL related information               |
| <i>__readonly__</i>      | (Optional)                            |
| <i>TABLE_mpls_ip_ttl</i> | (Optional)                            |
| <i>prop_or_exp</i>       | (Optional)                            |
| <i>forwarded</i>         | (Optional)                            |
| <i>local</i>             | (Optional)                            |
| <i>exp_count</i>         | (Optional)                            |

## Command Mode

- /exec

# show mpls label range

```
show mpls label range [ __readonly__ <dynamic-min> <dynamic-max> [ <static-min> <static-max> ] [
<srgb-min> <srgb-max> ] ]
```

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| mpls                | MPLS configuration commands     |
| label               | Label properties                |
| range               | Label range                     |
| <i>__readonly__</i> | (Optional)                      |
| <i>dynamic-min</i>  | (Optional)                      |
| <i>dynamic-max</i>  | (Optional)                      |
| <i>static-min</i>   | (Optional)                      |
| <i>static-max</i>   | (Optional)                      |
| <i>srgb-min</i>     | (Optional)                      |
| <i>srgb-max</i>     | (Optional)                      |

## Command Mode

- /exec

# show mpls load-sharing

show mpls load-sharing [ *\_\_readonly\_\_* *TABLE\_mpls\_load\_sharing* [ *<label-ip>* ] [ *<label-only>* ] ]

## Syntax Description

|                                |  |
|--------------------------------|--|
| show                           | Show running system information        |
| mpls                           | MPLS information                       |
| load-sharing                   | Show mpls load sharing options         |
| <i>__readonly__</i>            | (Optional)                             |
| <i>TABLE_mpls_load_sharing</i> | (Optional) Table for MPLS Load Sharing |
| <i>label-ip</i>                | (Optional) Label IP load sharing       |
| <i>label-only</i>              | (Optional) Label only load sharing     |

## Command Mode

- /exec

## show mpls oam echo statistics

```
show mpls oam echo statistics [ summary ] [ __readonly__ <rq_sent> <rq_timeout> <rq_unsent> <rq_rcvd>
<rx_sent> <rx_unsent> <rx_rcvd> <rc_zero> <rc_one> <rc_two> <rc_three> <rc_four> <rc_five> <rc_six>
<rc_seven> <rc_eight> <rc_nine> <rc_ten> <rc_eleven> <rc_twelve> <rc_thirteen> <rc_fourteen>
<summary_flag> ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information           |
| mpls                | Display MPLS status and configuration     |
| oam                 | Display OAM information                   |
| echo                | Echo request information                  |
| statistics          | Detailed Echo packet statistics           |
| summary             | (Optional) Echo packet statistics summary |
| <i>__readonly__</i> | (Optional)                                |
| <i>rq_sent</i>      | (Optional) Requests sent                  |
| <i>rq_timeout</i>   | (Optional) Requests timeout               |
| <i>rq_unsent</i>    | (Optional) Requests unsent                |
| <i>rq_rcvd</i>      | (Optional) Requests received              |
| <i>rx_sent</i>      | (Optional) Replies sent                   |
| <i>rx_unsent</i>    | (Optional) Replies unsent                 |
| <i>rx_rcvd</i>      | (Optional) Replies received               |
| <i>rc_zero</i>      | (Optional) Return code zero               |
| <i>rc_one</i>       | (Optional) Return code one                |
| <i>rc_two</i>       | (Optional) Return code two                |
| <i>rc_three</i>     | (Optional) Return code three              |
| <i>rc_four</i>      | (Optional) Return code four               |
| <i>rc_five</i>      | (Optional) Return code five               |
| <i>rc_six</i>       | (Optional) Return code six                |
| <i>rc_seven</i>     | (Optional) Return code seven              |
| <i>rc_eight</i>     | (Optional) Return code eight              |



|                     |                                 |
|---------------------|---------------------------------|
| <i>rc_nine</i>      | (Optional) Return code nine     |
| <i>rc_ten</i>       | (Optional) Return code ten      |
| <i>rc_eleven</i>    | (Optional) Return code eleven   |
| <i>rc_twelve</i>    | (Optional) Return code twelve   |
| <i>rc_thirteen</i>  | (Optional) Return code thirteen |
| <i>rc_fourteen</i>  | (Optional) Return code fourteen |
| <i>summary_flag</i> | (Optional) Summary flag         |

**Command Mode**

- /exec

# show mpls static binding

```
show mpls static binding [ vrf { <vrf-name> | <vrf-known-name> } ] { { ipv4 [ <prefix> { <mask> |
<mask-length> } | <prefix-mask> ] [ local | remote ] [ nexthop <addr> ] [ inconsistency ] [ lsp <slb_name> ]
} | { ipv6 [ <ipv6-prefix> ] [ local | remote ] [ ipv6-nexthop <ipv6-addr> ] [ inconsistency ] } | all [ inconsistency
] } [ __readonly__ [ TABLE_slb [ <slb_name> ] [ <slb_prefix> ] [ <slb_mask> ] <slb_vrf> <slb_inlabel> [
<slb_type> ] [ TABLE_slb_outlbl_list [ <slb_nh_path_num> ] <slb_nhops> <slb_outlabel> ] [
<inconsistency_reason> ] ] ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information           |
| mpls                  | Display MPLS status and configuration     |
| static                | Show MPLS static information              |
| binding               | Show static label bindings                |
| ipv4                  | Show ipv4 static label bindings           |
| ipv6                  | Show ipv6 static label bindings           |
| all                   | Show all static label bindings            |
| vrf                   | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>vrf-name</i>       | (Optional) VRF name                       |
| <i>vrf-known-name</i> | (Optional) Known VRF name                 |
| local                 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| remote                | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| inconsistency         | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>prefix</i>         | (Optional) Destination ipv4 prefix        |
| <i>mask</i>           | (Optional) Destination ipv4 prefix mask   |
| <i>mask-length</i>    | (Optional) Ipv4 mask length               |
| <i>prefix-mask</i>    | (Optional) Destination prefix/mask        |
| nexthop               | (Optional) Ipv4 next hop address          |
| <i>addr</i>           | (Optional) Ipv4 Next hop address          |
| ipv6-nexthop          | (Optional) Ipv6 next hop address          |
| lsp                   | (Optional) LSP Name                       |
| __readonly__          | (Optional) Read Only                      |

|                             |  |
|-----------------------------|--|
| TABLE_slb                   | (Optional) Show static label bindings for a given prefix |
| <i>slb_name</i>             | (Optional) Name  |
| <i>slb_prefix</i>           | (Optional) Prefix  |
| <i>slb_type</i>             | (Optional) SLB Type                                      |
| <i>slb_mask</i>             | (Optional) Mask bits                                     |
| <i>slb_vrf</i>              | (Optional) VRF name for prefix                           |
| <i>slb_inlabel</i>          | (Optional) Incoming label for prefix                     |
| TABLE_slb_outlbl_list       | (Optional) Show static outgoing labels for prefix        |
| <i>slb_nhop</i>             | (Optional) Next-hop address                              |
| <i>slb_nh_path_num</i>      | (Optional) Identifier for outgoing nexthop               |
| <i>slb_outlabel</i>         | (Optional) Outgoing label for next-hop address           |
| <i>inconsistency_reason</i> | (Optional) Reason for inconsistency                      |

**Command Mode**

- /exec

# show mpls static binding

```
show mpls static binding [ ipv4 ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ <prefix> { <mask> |
<mask-length> } | <prefix-mask> ] [ local | remote ] [ nexthop <addr> ] [ __readonly__ { TABLE_slb [
<slb_prefix> <slb_mask> ] <slb_vrf> <slb_inlabel> [ { TABLE_slb_outlbl_list <slb_nhop> <slb_outlabel>
} } ] ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                          |
| mpls                  | Display MPLS status and configuration                    |
| static                | Show MPLS static information                             |
| binding               | Show static label bindings                               |
| ipv4                  | (Optional) Show ipv4 static label bindings               |
| vrf                   | (Optional) VRF Routing/Forwarding instance information   |
| <i>vrf-name</i>       | (Optional) VRF name                                      |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                |
| <i>prefix</i>         | (Optional) Destination prefix                            |
| <i>mask</i>           | (Optional) Destination prefix mask                       |
| <i>mask-length</i>    | (Optional) Mask length                                   |
| <i>prefix-mask</i>    | (Optional) Destination prefix/mask                       |
| local                 | (Optional) Incoming (local) static label bindings        |
| remote                | (Optional) Outgoing (remote) static label bindings       |
| nexthop               | (Optional) Next hop address                              |
| <i>addr</i>           | (Optional) Next hop address                              |
| __readonly__          | (Optional) Read Only                                     |
| TABLE_slb             | (Optional) Show static label bindings for a given prefix |
| <i>slb_prefix</i>     | (Optional) Prefix  |
| <i>slb_mask</i>       | (Optional) Mask bits                                     |
| <i>slb_vrf</i>        | (Optional) VRF name for prefix                           |
| <i>slb_inlabel</i>    | (Optional) Incoming label for prefix                     |
| TABLE_slb_outlbl_list | (Optional) Show static outgoing labels for prefix        |

|                     |  |
|---------------------|--|
| <i>slb_nhop</i>     | (Optional) Next-hop address                    |
| <i>slb_outlabel</i> | (Optional) Outgoing label for next-hop address |

**Command Mode**

- /exec

# show mpls static trace

show mpls static trace { error | warning | event } [ size ]

## Syntax Description

|         |  |
|---------|--|
| show    | Show running system information        |
| mpls    | Display MPLS status and configuration  |
| static  | Static Label Bindings                  |
| trace   | MPLS static trace                      |
| error   | MPLS static error trace                |
| warning | MPLS static warning trace              |
| event   | MPLS static event trace                |
| size    | (Optional) trace buffer size in Kbytes |

## Command Mode

- /exec

## show mpls switching

```
show mpls switching [ labels <label> [ <max-label> ] | interface <intf> | { <ip-addr> | <ipv4-prefix> } [ vrf
{ <vrf-name> | <vrf-known-name> | all } ] | <ipv6-prefix> [ vrf { <vrf-name> | <vrf-known-name> | all } ] |
traffic-eng srpath [ <srte-path-id> ] | aggregate [ ipv4 | ipv6 ] [ vrf { <vrf-name> | <vrf-known-name> | all }
] | { fec { ipv4_prefix [ vrf { <vrf-name> | <vrf-known-name> | all } ] | ipv6_prefix [ vrf { <vrf-name> |
<vrf-known-name> | all } ] | deagg [ vrf { <vrf-name> | <vrf-known-name> | all | ias_vpnv4 | ias_vpnv6 } ]
| per-bd <per-bd-vlan-id> } } | { summary } ] [ detail ] [ private ] [ vrf { <vrf-name> | <vrf-known-name> |
all } ] [ _readonly_ [ [ TABLE_vrf [ <vrf_name> ] [ [ TABLE_inlabel <in_label> [ [ { <out_label_stack>
+ } ] ] { <srte_path_id> | <ipv4_prefix> | <ipv6_prefix> } [ <out_interface> ] { <ipv4_next_hop> |
<ipv6_next_hop> } [ <weight> ] ] [ <deagg_vrf> [ <deagg_af> ] ] [ { <tunnel_v4_mid_source> |
<tunnel_v6_mid_source> } <tunnel_id> { <ext_v4_tunnel_id> | <ext_v6_tunnel_id> } <tunnel_instance>
<tunnel_head> ] [ <nhlfe_p2p_flag> ] [ <nhlfe_fr_status> ] [ <nhlfe_stale_flag> ] [ <in_packets> <in_bytes>
] [ [ <out_label> + ] <out_packets> + <out_bytes> + ] [ { <tunnel_v4_mid_dest> | <tunnel_v6_mid_dest> }
{ <ipv4_next_hop> | <ipv6_next_hop> } ] [ <per_ce_table> <per_ce_nh_set_id> ] [ { <ias_v4_prefix> |
<ias_v6_prefix> } <ias_rd> ] [ <fec_none_label> ] [ <per_bd_vlan_id> ] [ <table_name> ] ] [
TABLE_adj_sid_inlabel <adj_sid_in_label> <out_label> { <ipv4_addr> | <ipv6_addr> } <out_interface> {
<adj_sid_ipv4_next_hop> | <adj_sid_ipv6_next_hop> } [ <in_packets> <in_bytes> ] [ [ <out_label> + ]
<out_packets> + <out_bytes> + ] ] ] [ TABLE_block <blockid> <lbl_range> ] ] ]
```

### Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information                                  |
| mpls               | Display MPLS status and configuration                            |
| switching          | Display the MPLS label switching database                        |
| traffic-eng        | (Optional) Show traffic-engineering related entries              |
| srpath             | (Optional) Show traffic-engineering segment-routing path entries |
| <i>ip-addr</i>     | (Optional) Match destination address                             |
| <i>ipv4-prefix</i> | (Optional) Specify an IP prefix/mask                             |
| fec                | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                        |
| private            | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                        |
| labels             | (Optional) Show a specific label-related information             |
| <i>label</i>       | (Optional) Low label value                                       |
| <i>max-label</i>   | (Optional) High label value                                      |
| interface          | (Optional) Match outgoing interface                              |
| aggregate          | (Optional) Show aggregate-related information                    |
| <i>intf</i>        | (Optional) Specify outgoing interface                            |
| summary            | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                        |

|                             |  |
|-----------------------------|--|
| detail                      | (Optional) Detailed information                        |
| ipv4_prefix                 | (Optional) IPv4 prefix                                 |
| ipv6_prefix                 | (Optional) IPv6 prefix                                 |
| ipv4                        | (Optional) Display IPv4 information                    |
| ipv6                        | (Optional) Display IPv6 information                    |
| deagg                       | (Optional) De-aggregation                              |
| per-bd                      | (Optional) BD FEC                                      |
| ias_vpnv4                   | (Optional) Display Inter-AS V4 information             |
| ias_vpnv6                   | (Optional) Display Inter-AS V6 information             |
| <i>srtc-path-id</i>         | (Optional) Traffic-engineering segment-routing path id |
| <i>per-bd-vlan-id</i>       | (Optional) Per BD id                                   |
| vrf                         | (Optional) Display per-VRF information                 |
| <i>vrf-name</i>             | (Optional) VRF name                                    |
| <i>vrf-known-name</i>       | (Optional) Known VRF name                              |
| all                         | (Optional) Display information for all VRFs            |
| __readonly__                | (Optional)   |
| TABLE_vrf                   | (Optional)   |
| <i>vrf_name</i>             | (Optional)   |
| TABLE_inlabel               | (Optional)   |
| <i>in_label</i>             | (Optional)   |
| <i>out_label_stack</i>      | (Optional)   |
| <i>ipv4_prefix</i>          | (Optional)   |
| <i>tunnel_v4_mid_source</i> | (Optional)   |
| <i>tunnel_v4_mid_dest</i>   | (Optional)   |
| <i>tunnel_id</i>            | (Optional)   |
| <i>ext_v4_tunnel_id</i>     | (Optional)   |
| <i>tunnel_instance</i>      | (Optional)   |
| <i>tunnel_head</i>          | (Optional)   |
| <i>deagg_vrf</i>            | (Optional)   |



|                              |            |
|------------------------------|------------|
| <i>deagg_af</i>              | (Optional) |
| <i>out_interface</i>         | (Optional) |
| <i>ipv4_next_hop</i>         | (Optional) |
| <i>ipv6_next_hop</i>         | (Optional) |
| <i>weight</i>                | (Optional) |
| <i>nhlfe_frr_status</i>      | (Optional) |
| <i>nhlfe_stale_flag</i>      | (Optional) |
| <i>nhlfe_p2p_flag</i>        | (Optional) |
| <i>table_name</i>            | (Optional) |
| <i>in_packets</i>            | (Optional) |
| <i>in_bytes</i>              | (Optional) |
| <i>out_label</i>             | (Optional) |
| <i>out_packets</i>           | (Optional) |
| <i>out_bytes</i>             | (Optional) |
| <i>per_ce_table</i>          | (Optional) |
| <i>per_ce_nh_set_id</i>      | (Optional) |
| <i>fec_none_label</i>        | (Optional) |
| <i>ias_v4_prefix</i>         | (Optional) |
| <i>ias_v6_prefix</i>         | (Optional) |
| <i>ias_rd</i>                | (Optional) |
| <i>srte_path_id</i>          | (Optional) |
| <i>per_bd_vlan_id</i>        | (Optional) |
| TABLE_adj_sid_inlabel        | (Optional) |
| <i>adj_sid_in_label</i>      | (Optional) |
| <i>out_label</i>             | (Optional) |
| <i>ipv4_addr</i>             | (Optional) |
| <i>out_interface</i>         | (Optional) |
| <i>adj_sid_ipv4_next_hop</i> | (Optional) |
| <i>adj_sid_ipv6_next_hop</i> | (Optional) |

|                    |            |
|--------------------|------------|
| <i>in_packets</i>  | (Optional) |
| <i>in_bytes</i>    | (Optional) |
| <i>out_packets</i> | (Optional) |
| <i>out_bytes</i>   | (Optional) |
| TABLE_block        | (Optional) |
| <i>blockid</i>     | (Optional) |
| <i>lbl_range</i>   | (Optional) |

**Command Mode**

- /exec

# show mpls switching clients

```
show mpls switching clients [ __readonly__ [ TABLE_client <pib-name> <pib-index> <pib-uuid> <pib-sap>
<stale-time> <pib-flag> [ <stale-due> ] <reg-msg> <conv-msg> [ <inv-conv> ] <fec-msg> <fec-add> <ile-add>
<fec-del> <ile-del> <last-xid> <fec-ack> ] ]
```

## Syntax Description

|                   |  |
|-------------------|--|
| show              | Show running system information                  |
| mpls              | Display MPLS status and configuration            |
| switching         | Display the MPLS label switching database        |
| clients           | Display ULIB client components                   |
| __readonly__      | (Optional)                                       |
| TABLE_client      | (Optional)                                       |
| <i>pib-name</i>   | (Optional) Name of the client(pib)               |
| <i>pib-index</i>  | (Optional) PIB Index                             |
| <i>pib-uuid</i>   | (Optional) PIB UUID                              |
| <i>pib-sap</i>    | (Optional) MTS SAP for the pib                   |
| <i>stale-time</i> | (Optional) Stale time                            |
| <i>pib-flag</i>   | (Optional) Flags set by the pib                  |
| <i>stale-due</i>  | (Optional) Stale timer due in                    |
| <i>reg-msg</i>    | (Optional) Number of Registration Message        |
| <i>conv-msg</i>   | (Optional) Number of Converge Message            |
| <i>inv-conv</i>   | (Optional) Number of Invalid Convergence message |
| <i>fec-msg</i>    | (Optional) Number of FEC messages                |
| <i>fec-add</i>    | (Optional) Number of FEC Add messages            |
| <i>ile-add</i>    | (Optional) Number of ILE Add messages            |
| <i>fec-del</i>    | (Optional) Number of FEC delete messages         |
| <i>ile-del</i>    | (Optional) Number of ILE delete messages         |
| <i>last-xid</i>   | (Optional) Last XID                              |
| <i>fec-ack</i>    | (Optional) Number of FEC Ack messages sent       |

## Command Mode

- /exec

## show mvpn bgp mdt

```
show mvpn bgp { mdt-safi | auto-discovery } [ mdt-source <src-addr> ] [ __readonly__ { TABLE_entry
<bgp_rd> <mdt_src> <mdt_grp> <local> } ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information               |
| mvpn                | Display Multicast VPN information             |
| bgp                 | Display BGP related information               |
| mdt-safi            | Display Auto-discovered BGP MDT-SAFI database |
| auto-discovery      | Display Auto-discovered BGP MDT-SAFI database |
| mdt-source          | (Optional) Source address of MVPN neighbor    |
| <i>src-addr</i>     | (Optional) Source Address                     |
| <i>__readonly__</i> | (Optional)                                    |
| TABLE_entry         | (Optional)                                    |
| <i>bgp_rd</i>       | (Optional)                                    |
| <i>mdt_src</i>      | (Optional)                                    |
| <i>mdt_grp</i>      | (Optional)                                    |
| <i>local</i>        | (Optional)                                    |

### Command Mode

- /exec

# show mvpn mdt encap

```
show mvpn mdt encap [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<out_context> { TABLE_encap <encap_index> <mdt_grp> <mdt_src> <mdt_src_if> } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| mvpn                  | Display Multicast VPN information           |
| mdt                   | Display MDT information                     |
| encap                 | Display MDT Encap table                     |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_vrf             | (Optional)                                  |
| <i>out_context</i>    | (Optional)                                  |
| TABLE_encap           | (Optional)                                  |
| <i>encap_index</i>    | (Optional)                                  |
| <i>mdt_grp</i>        | (Optional)                                  |
| <i>mdt_src</i>        | (Optional)                                  |
| <i>mdt_src_if</i>     | (Optional)                                  |

## Command Mode

- /exec

# show mvpn mdt route

```
show mvpn mdt route [ detail ] [ __readonly__ TABLE_vrf <out_context> [ TABLE_mroute <src_addr>
<grp_addr> <uptime> <ref_count> ] ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information         |
| mvpn                | Display Multicast VPN information       |
| mdt                 | Display MDT information                 |
| route               | Display MDT route information           |
| detail              | (Optional) Display detailed information |
| <i>__readonly__</i> | (Optional)                              |
| TABLE_vrf           | (Optional)                              |
| <i>out_context</i>  | (Optional)                              |
| TABLE_mroute        | (Optional)                              |
| <i>src_addr</i>     | (Optional)                              |
| <i>grp_addr</i>     | (Optional)                              |
| <i>uptime</i>       | (Optional)                              |
| <i>ref_count</i>    | (Optional)                              |

## Command Mode

- /exec

show mvpn mdt route





## N Show Commands

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- [show nve multisite fabric-links](#), on page 1763
- [show nve peers](#), on page 1764
- [show nve peers interface counters](#), on page 1766
- [show nve peers mpls](#), on page 1767
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- [show nve replication-servers](#), on page 1769
- [show nve vni](#), on page 1770
- [show nve vni counters](#), on page 1772
- [show nve vni ingress-replication](#), on page 1773
- [show nve vrf](#), on page 1774
- [show nve vxlan-params](#), on page 1775
- [show nxapi-server logs](#), on page 1776
- [show nxapi](#), on page 1777

## show nbm defaults

```
show nbm defaults [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [ __readonly__ TABLE_vrf
<vrfName> { <contextId> <bandwidthInKbps> <dscp> <qid> <policer> <operModeCache> <operMode>
<unicastFabricBandwidth> <numAsmGroup> } [ TABLE_ASM <groupId> { <groupPrefix> <groupMaskLen>
} ] { <senderPolicy> <localReceiverPolicy> <externalReceiverPolicy> } ]
```

### Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information        |
| nbm                           | Non Blocking Multicast                 |
| defaults                      | Default config                         |
| vrf                           | (Optional) Display per-VRF information |
| all                           | (Optional) Display all VRFs            |
| <i>vrf-name</i>               | (Optional) VRF name                    |
| <i>nbm-vrf-known-name</i>     | (Optional) NBM VRF Name                |
| <i>__readonly__</i>           | (Optional)                             |
| TABLE_vrf                     | (Optional) VRF table                   |
| <i>vrfName</i>                | (Optional) VRF name                    |
| <i>contextId</i>              | (Optional) Context ID                  |
| <i>bandwidthInKbps</i>        | (Optional) Bandwidth in Kbps           |
| <i>dscp</i>                   | (Optional) DSCP                        |
| <i>qid</i>                    | (Optional) Queue ID                    |
| <i>policer</i>                | (Optional) Policer                     |
| <i>operModeCache</i>          | (Optional) Operation Mode Cache        |
| <i>operMode</i>               | (Optional) Operation Mode              |
| <i>unicastFabricBandwidth</i> | (Optional) Unicast fabric bandwidth    |
| <i>numAsmGroup</i>            | (Optional) Number of ASM Groups        |
| TABLE_ASM                     | (Optional) ASM Group Table             |
| <i>groupId</i>                | (Optional) Group number                |
| <i>groupPrefix</i>            | (Optional) Group Prefix                |
| <i>groupMaskLen</i>           | (Optional) Group Mask Length           |

|                               |   |
|-------------------------------|---|
| <i>senderPolicy</i>           | (Optional) Sender Policy                  |
| <i>localReceiverPolicy</i>    | (Optional) Local Receiver Policy          |
| <i>externalReceiverPolicy</i> | (Optional) External Receiver Policy (PIM) |

**Command Mode**

- /exec

# show nbm flow-policy

```
show nbm flow-policy [ name { <policy-name> } ] [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [
__readonly__ TABLE_vrf { <vrfName> [ <policyName> ] [ { <defaultBandwidthKbps> <defaultDscp>
<defaultQos> <defaultPolicer> } ] [ { TABLE_flow_policy <groupRange> <bandwidthKbps> <dscp> <qos>
<policer> <policyName> } ] <numGroupRanges> <numPolicies> } ]
```

## Syntax Description

|                             |  |
|-----------------------------|--|
| show                        | Show running system information        |
| nbm                         | Non Blocking Multicast                 |
| flow-policy                 | Flow policy show command               |
| name                        | (Optional) Policy name                 |
| <i>policy-name</i>          | (Optional) Policy name value           |
| vrf                         | (Optional) Display per-VRF information |
| all                         | (Optional) Display all VRFs            |
| <i>vrf-name</i>             | (Optional) VRF name                    |
| <i>nbm-vrf-known-name</i>   | (Optional) NBM VRF Name                |
| <i>__readonly__</i>         | (Optional)                             |
| TABLE_vrf                   | (Optional) VRF table                   |
| <i>vrfName</i>              | (Optional) VRF name                    |
| <i>policyName</i>           | (Optional) Policy name                 |
| <i>defaultBandwidthKbps</i> | (Optional) Default Bandwidth in Kbps   |
| <i>defaultDscp</i>          | (Optional) Default DSCP                |
| <i>defaultQos</i>           | (Optional) Default QOS                 |
| <i>defaultPolicer</i>       | (Optional) Default Policer             |
| TABLE_flow_policy           | (Optional) Flow policies in VRF        |
| <i>groupRange</i>           | (Optional) Group range                 |
| <i>bandwidthKbps</i>        | (Optional) Bandwidth in Kbps           |
| <i>dscp</i>                 | (Optional) DSCP                        |
| <i>qos</i>                  | (Optional) QOS                         |
| <i>policer</i>              | (Optional) Policer                     |

|                       |   |
|-----------------------|---|
| <i>policyName</i>     | (Optional) Policy Name                    |
| <i>numGroupRanges</i> | (Optional) Number of group or group-range |
| <i>numPolicies</i>    | (Optional) Number of flow policies        |

**Command Mode**

- /exec

## show nbm flows

```
show nbm flows [ group-based [ group <group-ip> ] | { flow-policy { <cfg-pol-name> | <unknown-pol-name>
} } | source <source-ip> [ group <group-ip> ] | group <group-ip> [ source <source-ip> ] | interface <if-name>
| logical-id { none | any | <lid-val> } | profile-id <prof-id> ] [ all | active | inactive | no-receiver ] [ detail ] [
vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf <vrf-name> ] [ TABLE_flows
{ <mcast_grp> <src_ip> [ <start_time> ] <uptime> <src_intf> <src_nbr_device> [ <lid> <profile> <status>
] <num_rx> <bw_mbps> [ <cfg_mbps> ] <src_slot> <src_unit> <src_slice> } [ { <act_slot> <act_unit>
<stdby_slot> <stdby_unit> } ] { <dscp> <qos> [ <owner_type> ] <policed> [ <is_fhr> ] <pol_name> } [
<flag> ] [ TABLE_num_int_links { <n_link> <num_links> } ] [ TABLE_int_links { <iiod> <ilink> <i_ifidx>
<fab_iiod> <fab_oiod> <fab_ifidx> <oiod> <olink> <i_ieth_port> <fab_ieth_port> } ] [ TABLE_oifs { [
<oif_num> ] <oif_slot> <oif_unit> <oif_slot_unit_num_rx> <oif_if_idx> <oif_ioid> <oif_name>
<oif_nbr_device> } ] [ { <end_timestr> <flow_rate_bps> <packets> <bytes> } ] ] ] ]
```

### Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information                                |
| nbm                     | Non Blocking Multicast   |
| flows                   | NBM flows (default will be active flows)                       |
| active                  | (Optional) Active flows (default)                              |
| inactive                | (Optional) Inactive flows                                      |
| no-receiver             | (Optional) Flows without any receiver                          |
| all                     | (Optional) Both active and inactive flows                      |
| group-based             | (Optional) Multicast group based (*,G) flows to IGMP receivers |
| flow-policy             | (Optional) Flow policy   |
| <i>cfg-pol-name</i>     | (Optional) Policy name   |
| <i>unknown-pol-name</i> | (Optional) Policy name   |
| source                  | (Optional) Source IP address                                   |
| <i>source-ip</i>        | (Optional) Source IP address                                   |
| group                   | (Optional) Multicast group                                     |
| <i>group-ip</i>         | (Optional) Multicast group address                             |
| interface               | (Optional) Ingress interface                                   |
| logical-id              | (Optional) Logical ID (LID)                                    |
| <i>lid-val</i>          | (Optional) Logical ID (LID) value                              |
| any                     | (Optional) Any Logical ID (LID)                                |

|                       |   |
|-----------------------|---|
| none                  | (Optional) Without any Logical ID (LID)                     |
| profile-id            | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                   |
| <i>prof-id</i>        | (Optional) Profile ID value                                 |
| detail                | (Optional) Detailed output                                  |
| <i>if-name</i>        | (Optional) Interface name                                   |
| <i>__readonly__</i>   | (Optional)  |
| TABLE_vrf             | (Optional) VRF table  |
| <i>vrf-name</i>       | (Optional) VRF name   |
| TABLE_flows           | (Optional) Flow table                                       |
| <i>mcast_grp</i>      | (Optional) Multicast group IP                               |
| <i>src_ip</i>         | (Optional) Source IP  |
| <i>start_time</i>     | (Optional) Start time for the flow                          |
| <i>uptime</i>         | (Optional) Uptime for the flow                              |
| <i>src_intf</i>       | (Optional) Ingress source interface                         |
| <i>src_nbr_device</i> | (Optional) Ingress neighbor device name                     |
| <i>lid</i>            | (Optional) Logical internal flow ID                         |
| <i>profile</i>        | (Optional) Profile ID                                       |
| <i>status</i>         | (Optional) Flow status                                      |
| <i>num_rx</i>         | (Optional) Number of receivers (OIFs)                       |
| <i>bw_mbps</i>        | (Optional) Set bandwidth                                    |
| <i>cfg_mbps</i>       | (Optional) Configured bandwidth                             |
| <i>src_slot</i>       | (Optional) Source (RPF) slot                                |
| <i>src_unit</i>       | (Optional) Source (RPF) unit                                |
| <i>src_slice</i>      | (Optional) Source (RPF) slice                               |
| <i>dscp</i>           | (Optional) Flow DSCP  |
| <i>qos</i>            | (Optional) Flow QOS group                                   |
| <i>owner_type</i>     | (Optional) Flow Owner type                                  |
| <i>policed</i>        | (Optional) Flow is policed or not                           |
| <i>is_fhr</i>         | (Optional) This node is FHR (First-Hop Router) for the Flow |



|                             |  |
|-----------------------------|--|
| <i>pol_name</i>             | (Optional) Flow Policy name                  |
| <i>vrf</i>                  | (Optional) Display per-VRF information       |
| <i>all</i>                  | (Optional) Display all VRFs                  |
| <i>vrf-name</i>             | (Optional) VRF name                          |
| <i>nbm-vrf-known-name</i>   | (Optional) NBM VRF Name                      |
| <i>act_slot</i>             | (Optional) Active FM Slot                    |
| <i>act_unit</i>             | (Optional) Active FM Unit                    |
| <i>stdby_slot</i>           | (Optional) Standby FM Slot                   |
| <i>stdby_unit</i>           | (Optional) Standby FM Unit                   |
| <i>flag</i>                 | (Optional) Flow not guarantee flag           |
| <i>TABLE_num_int_links</i>  | (Optional) Internal link number table        |
| <i>n_link</i>               | (Optional) N Link                            |
| <i>num_links</i>            | (Optional) Number of Links                   |
| <i>TABLE_int_links</i>      | (Optional) Internal link table               |
| <i>iiod</i>                 | (Optional) IIOD                              |
| <i>ilink</i>                | (Optional) Ilink                             |
| <i>i_ifidx</i>              | (Optional) Internal IF IDX                   |
| <i>fab_iiod</i>             | (Optional) Fabric IIOD                       |
| <i>fab_oiod</i>             | (Optional) Fabric OIOD                       |
| <i>fab_ifidx</i>            | (Optional) Fabric IFIDX                      |
| <i>oiod</i>                 | (Optional) OIOD                              |
| <i>olink</i>                | (Optional) OLink                             |
| <i>i_ieth_port</i>          | (Optional) Internal IEth Link                |
| <i>fab_ieth_port</i>        | (Optional) Fabric IEth Port                  |
| <i>TABLE_oifs</i>           | (Optional) OIF table                         |
| <i>oif_num</i>              | (Optional) Receiver serial number            |
| <i>oif_slot</i>             | (Optional) Slot                              |
| <i>oif_unit</i>             | (Optional) Unit                              |
| <i>oif_slot_unit_num_rx</i> | (Optional) Number of Receivers for slot/unit |

|                       |  |
|-----------------------|--|
| <i>oif_if_idx</i>     | (Optional) Receiver interface index      |
| <i>oif_iod</i>        | (Optional) Outgoing IOD                  |
| <i>oif_name</i>       | (Optional) Outgoing interface name       |
| <i>oif_nbr_device</i> | (Optional) Outgoing neighbor device name |
| <i>end_timestr</i>    | (Optional) Deleted flow end time         |
| <i>flow_rate_bps</i>  | (Optional) Deleted flow flow rate in bps |
| <i>packets</i>        | (Optional) Deleted flow packets          |
| <i>bytes</i>          | (Optional) Deleted flow bytes            |

**Command Mode**

- /exec

## show nbm flows static

```
show nbm flows static [ group <grp> ] [ source <src> ] [ stitched | unstitched ] [ vrf { <vrf-name> |
<nbm-vrf-known-name> | all } ] [ __readonly__ { [ TABLE_vrf <vrf-name> [ TABLE_stitched { <stitchedSrc>
<stitchedGrp> [ TABLE_stitchedEgress { <stitchedEgressIntf> } ] [ TABLE_stitchedHost { <stitchedHostIp>
} ] } ] [ TABLE_unstitched { <unstitchedSrc> <unstitchedGrp> [ TABLE_unstitchedEgress {
<unstitchedEgressIntf> } ] [ TABLE_unstitchedHost { <unstitchedHostIp> } ] } ] } ] }
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information                   |
| nbm                       | Non Blocking Multicast                            |
| flows                     | NBM flows (default will be active flows)          |
| static                    | Static NBM Flows                                  |
| group                     | (Optional) Multicast group                        |
| <i>grp</i>                | (Optional) Multicast group address                |
| source                    | (Optional) Source ip of sender                    |
| <i>src</i>                | (Optional) Source address                         |
| stitched                  | (Optional) Show only successfully provisioned oif |
| unstitched                | (Optional) Show only failed to provision oif      |
| vrf                       | (Optional) Display per-VRF information            |
| all                       | (Optional) Display all VRFs                       |
| <i>vrf-name</i>           | (Optional) VRF name                               |
| <i>nbm-vrf-known-name</i> | (Optional) NBM VRF Name                           |
| <i>__readonly__</i>       | (Optional)  |
| TABLE_vrf                 | (Optional) VRF table                              |
| <i>vrf-name</i>           | (Optional) VRF name                               |
| TABLE_stitched            | (Optional) Static Flows stitched table            |
| <i>stitchedSrc</i>        | (Optional) Source IP address stitched             |
| <i>stitchedGrp</i>        | (Optional) Multicast Group address stitched       |
| TABLE_stitchedEgress      | (Optional) Egress Interface table stitched flows  |
| <i>stitchedEgressIntf</i> | (Optional) Egress Interface for stitched flows    |
| TABLE_stitchedHost        | (Optional) Host IP table for stitched flows       |

|                             |  |
|-----------------------------|--|
| <i>stitchedHostIp</i>       | (Optional) Host IP address for stitched flows      |
| TABLE_unstitched            | (Optional) Static Flows unstitched                 |
| <i>unstitchedSrc</i>        | (Optional) Source IP address unstitched            |
| <i>unstitchedGrp</i>        | (Optional) Multicast Group address unstitched      |
| TABLE_unstitchedEgress      | (Optional) Egress Interface table unstitched flows |
| <i>unstitchedEgressIntf</i> | (Optional) Egress Interface for unstitched flows   |
| TABLE_unstitchedHost        | (Optional) Host IP table for unstitched flows      |
| <i>unstitchedHostIp</i>     | (Optional) Host IP address for unstitched flows    |

**Command Mode**

- /exec

## show nbm flows statistics

```
show nbm flows statistics [ group-based [ group <group-ip> ] | source <source-ip> [ group <group-ip> ] |
group <group-ip> [ source <source-ip> ] | { flow-policy { <cfg-pol-name> | <unknown-pol-name> } } |
interface <if-name> | logical-id { none | any | <lid-val> } | profile-id <prof-id> ] [ vrf { <vrf-name> |
<nbm-vrf-known-name> | all } ] [ __readonly__ { [ TABLE_vrf <vrf-name> [ TABLE_stats { <mcast_grp>
<src_ip> [ <start_time> ] <uptime> <src_intf> <packets> <bytes> <allow_bytes> <drop_bytes> } ] } ]
```

### Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information                                |
| nbm                     | Non Blocking Multicast   |
| flows                   | NBM flows  |
| statistics              | Flow statistics  |
| group-based             | (Optional) Multicast group based (*,G) flows to IGMP receivers |
| source                  | (Optional) Source IP address                                   |
| <i>source-ip</i>        | (Optional) Source IP address value                             |
| group                   | (Optional) Multicast group                                     |
| <i>group-ip</i>         | (Optional) Multicast group address value                       |
| flow-policy             | (Optional) Flow policy   |
| <i>cfg-pol-name</i>     | (Optional) Policy name   |
| <i>unknown-pol-name</i> | (Optional) Policy name   |
| interface               | (Optional) Ingress interface                                   |
| <i>if-name</i>          | (Optional) Interface interface name                            |
| logical-id              | (Optional) Logical ID (LID)                                    |
| <i>lid-val</i>          | (Optional) Logical ID (LID) value                              |
| any                     | (Optional) Any Logical ID (LID)                                |
| none                    | (Optional) Without any Logical ID (LID)                        |
| profile-id              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                      |
| <i>prof-id</i>          | (Optional) Profile ID value                                    |
| vrf                     | (Optional) Display per-VRF information                         |
| all                     | (Optional) Display all VRFs                                    |
| <i>vrf-name</i>         | (Optional) VRF name  |

|                           |                                     |
|---------------------------|-------------------------------------|
| <i>nbm-vrf-known-name</i> | (Optional) NBM VRF Name             |
| <i>__readonly__</i>       | (Optional)                          |
| <i>TABLE_vrf</i>          | (Optional) VRF table                |
| <i>vrf-name</i>           | (Optional) VRF name                 |
| <i>TABLE_stats</i>        | (Optional) Flow stats table         |
| <i>mcast_grp</i>          | (Optional) Multicast group IP       |
| <i>src_ip</i>             | (Optional) Source IP                |
| <i>start_time</i>         | (Optional) Start time for the flow  |
| <i>uptime</i>             | (Optional) Uptime for the flow      |
| <i>src_intf</i>           | (Optional) Ingress source interface |
| <i>packets</i>            | (Optional) Packets                  |
| <i>bytes</i>              | (Optional) Bytes                    |
| <i>allow_bytes</i>        | (Optional) Allowed bytes            |
| <i>drop_bytes</i>         | (Optional) Dropped bytes            |

**Command Mode**

- /exec

# show nbm flows summary

```
show nbm flows summary [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf
<vrf-name> [ TABLE_flows_summary <flow_type> <starg> <sg> <total> ] [ TABLE_flows_summary_per_rpf
<if-name> <starg> <sg> <total> ] ] ]
```

## Syntax Description

|                             |  |
|-----------------------------|--|
| show                        | Show running system information        |
| nbm                         | Non Blocking Multicast                 |
| flows                       | NBM Flows                              |
| summary                     | NBM Flow Summary                       |
| vrf                         | (Optional) Display per-VRF information |
| all                         | (Optional) Display all VRFs            |
| <i>vrf-name</i>             | (Optional) VRF name                    |
| <i>nbm-vrf-known-name</i>   | (Optional) NBM VRF Name                |
| <i>__readonly__</i>         | (Optional)                             |
| TABLE_vrf                   | (Optional) VRF table                   |
| <i>vrf-name</i>             | (Optional) VRF name                    |
| TABLE_flows_summary         | (Optional) Flow summary table          |
| <i>flow_type</i>            | (Optional) Type of Flow Summary        |
| <i>sg</i>                   | (Optional) (S,G) number of flows       |
| <i>starg</i>                | (Optional) (*,G) number of flows       |
| <i>total</i>                | (Optional) Total Flows                 |
| TABLE_flows_summary_per_rpf | (Optional) Flow summary table per RPF  |
| <i>if-name</i>              | (Optional) RPF Interface name          |
| <i>sg</i>                   | (Optional) (S,G) number of flows       |
| <i>starg</i>                | (Optional) (*,G) number of flows       |
| <i>total</i>                | (Optional) Total Flows                 |

## Command Mode

- /exec

## show nbm host-policy all

```
show nbm host-policy all { sender | { receiver { local | external } } } [ vrf { <vrf-name> |
<nbm-vrf-known-name> | all } ] [ __readonly__ [ TABLE_vrf <vrf-name> <policyType> <defaultHostPolicy>
[ TABLE_host_policies <seqNum> <source> <group> <groupMask> [ <host> ] <permission> ] <numPolicies>
] ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information               |
| nbm                       | Non Blocking Multicast                        |
| host-policy               | Host policy                                   |
| all                       | All policies on switch                        |
| sender                    | Sender Policy                                 |
| receiver                  | Receiver Policy                               |
| local                     | Local receiver policy                         |
| external                  | External receiver policy                      |
| vrf                       | (Optional) Display per-VRF information        |
| all                       | (Optional) Display all VRFs                   |
| <i>vrf-name</i>           | (Optional) VRF name                           |
| <i>nbm-vrf-known-name</i> | (Optional) NBM VRF Name                       |
| <i>__readonly__</i>       | (Optional)                                    |
| TABLE_vrf                 | (Optional) VRF table                          |
| <i>vrf-name</i>           | (Optional) VRF name                           |
| <i>policyType</i>         | (Optional) Type of Policy                     |
| <i>defaultHostPolicy</i>  | (Optional) Default Permission for Host Policy |
| TABLE_host_policies       | (Optional) Host policy table                  |
| <i>seqNum</i>             | (Optional) Sequence number                    |
| <i>source</i>             | (Optional) Source IP                          |
| <i>group</i>              | (Optional) Multicast group IP                 |
| <i>groupMask</i>          | (Optional) Group mask length                  |
| <i>host</i>               | (Optional) Reporter or Host IP                |



|                    |                                       |
|--------------------|---------------------------------------|
| <i>permission</i>  | (Optional) Permission for this Policy |
| <i>numPolicies</i> | (Optional) Number of Policies         |

**Command Mode**

- /exec

## show nbm host-policy applied receiver

```
show nbm host-policy applied receiver { { { local { all | wildcard } | external } [ vrf { <vrf-name> |
<nbm-vrf-known-name> | all } ] } | { local interface <if-name> } } [ __readonly__ [ TABLE_vrf <vrf-name>
<policyType> <defaultHostPolicy> [ TABLE_interface <ifName> [ TABLE_host_policies <seqNum>
<source> <group> <groupMask> <permission> <denyCounter> ] ] [ TABLE_wildcard_policies
<seqNumWildcard> <sourceWildcard> <groupWildcard> <groupMaskWildcard> <permissionWildcard>
<denyCounterWildcard> ] <numPolicies> ] ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information               |
| nbm                       | Non Blocking Multicast                        |
| host-policy               | Host policy                                   |
| applied                   | Applied policies only                         |
| receiver                  | Receiver Policy                               |
| local                     | Local receiver policy                         |
| all                       | All policies on switch                        |
| wildcard                  | All wildcard policies                         |
| external                  | External receiver policy                      |
| vrf                       | (Optional) Display per-VRF information        |
| <i>vrf-name</i>           | (Optional) VRF name                           |
| <i>nbm-vrf-known-name</i> | (Optional) NBM VRF Name                       |
| all                       | (Optional) Display all VRFs                   |
| interface                 | Interface                                     |
| <i>if-name</i>            | Interface name                                |
| __readonly__              | (Optional)                                    |
| TABLE_vrf                 | (Optional) VRF table                          |
| <i>vrf-name</i>           | (Optional) VRF name                           |
| <i>policyType</i>         | (Optional) Type of Policy                     |
| <i>defaultHostPolicy</i>  | (Optional) Default Permission for Host Policy |
| TABLE_interface           | (Optional) Interface table                    |
| <i>ifName</i>             | (Optional) Interface name                     |

|                            |                                       |
|----------------------------|---------------------------------------|
| TABLE_host_policies        | (Optional) Host policy table          |
| <i>seqNum</i>              | (Optional) Sequence number            |
| <i>source</i>              | (Optional) Source IP                  |
| <i>group</i>               | (Optional) Multicast group IP         |
| <i>groupMask</i>           | (Optional) Group mask length          |
| <i>permission</i>          | (Optional) Permission for this Policy |
| <i>denyCounter</i>         | (Optional) Deny Counter               |
| TABLE_wildcard_policies    | (Optional) Wildcard policy table      |
| <i>seqNumWildcard</i>      | (Optional) Sequence number            |
| <i>sourceWildcard</i>      | (Optional) Source IP                  |
| <i>groupWildcard</i>       | (Optional) Multicast group IP         |
| <i>groupMaskWildcard</i>   | (Optional) Group mask length          |
| <i>permissionWildcard</i>  | (Optional) Permission for this Policy |
| <i>denyCounterWildcard</i> | (Optional) Deny Counter               |
| <i>numPolicies</i>         | (Optional) Number of Policies         |

**Command Mode**

- /exec

## show nbm host-policy applied sender

```
show nbm host-policy applied sender { { { all | wildcard } [ vrf { <vrf-name> | <nbm-vrf-known-name> | all
} ] } | { interface <if-name> } } [ __readonly__ [ TABLE_vrf <vrf-name> <policyType> <defaultHostPolicy>
[ TABLE_interface <ifName> [ TABLE_host_policies <seqNum> <source> <group> <groupMask>
<permission> ] ] [ TABLE_wildcard_policies <seqNumWildcard> <sourceWildcard> <groupWildcard>
<groupMaskWildcard> <permissionWildcard> ] <numPolicies> ] ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information               |
| nbm                       | Non Blocking Multicast                        |
| host-policy               | Host policy                                   |
| applied                   | Applied policies only                         |
| sender                    | Sender Policy                                 |
| all                       | All policies on switch                        |
| wildcard                  | Wildcard host policy                          |
| vrf                       | (Optional) Display per-VRF information        |
| all                       | (Optional) Display all VRFs                   |
| <i>vrf-name</i>           | (Optional) VRF name                           |
| <i>nbm-vrf-known-name</i> | (Optional) NBM VRF Name                       |
| interface                 | Interface                                     |
| <i>if-name</i>            | Interface name                                |
| __readonly__              | (Optional)                                    |
| TABLE_vrf                 | (Optional) VRF table                          |
| <i>vrf-name</i>           | (Optional) VRF name                           |
| <i>policyType</i>         | (Optional) Type of Policy                     |
| <i>defaultHostPolicy</i>  | (Optional) Default Permission for Host Policy |
| TABLE_interface           | (Optional) Interface table                    |
| <i>ifName</i>             | (Optional) Interface name                     |
| TABLE_host_policies       | (Optional) Host policy table                  |
| <i>seqNum</i>             | (Optional) Sequence number                    |
| <i>source</i>             | (Optional) Source IP                          |

|                           |                                       |
|---------------------------|---------------------------------------|
| <i>group</i>              | (Optional) Multicast group IP         |
| <i>groupMask</i>          | (Optional) Group mask length          |
| <i>permission</i>         | (Optional) Permission for this Policy |
| TABLE_wildcard_policies   | (Optional) Wildcard policy table      |
| <i>seqNumWildcard</i>     | (Optional) Sequence number            |
| <i>sourceWildcard</i>     | (Optional) Source IP                  |
| <i>groupWildcard</i>      | (Optional) Multicast group IP         |
| <i>groupMaskWildcard</i>  | (Optional) Group mask length          |
| <i>permissionWildcard</i> | (Optional) Permission for this Policy |
| <i>numPolicies</i>        | (Optional) Number of Policies         |

**Command Mode**

- /exec

## show nbm interface bandwidth

```
show nbm interface bandwidth [ __readonly__ [ TABLE_bw { <index> <ifname> <iod> <slot> <unit> <slice>
<ingr_fl_bw_available> <ingr_fl_bw_usable> <ingr_fl_bw_capacity> <egr_fl_bw_available>
<egr_fl_bw_usable> <egr_fl_bw_capacity> <nbr_dev_id> <nbr_dev_name> <external> } ] ]
```

### Syntax Description

|                             |                                      |
|-----------------------------|--------------------------------------|
| show                        | Show running system information      |
| nbm                         | Non Blocking Multicast               |
| interface                   | interface                            |
| bandwidth                   | Bandwidth interface table            |
| __readonly__                | (Optional)                           |
| TABLE_bw                    | (Optional) TABLE Bandwidth           |
| <i>index</i>                | (Optional) Index                     |
| <i>ifname</i>               | (Optional) Interface                 |
| <i>iod</i>                  | (Optional) IOD                       |
| <i>slot</i>                 | (Optional) SLOT                      |
| <i>unit</i>                 | (Optional) UNIT                      |
| <i>slice</i>                | (Optional) SLICE                     |
| <i>ingr_fl_bw_available</i> | (Optional) Ingress Flow BW available |
| <i>ingr_fl_bw_usable</i>    | (Optional) Ingress Flow BW usable    |
| <i>ingr_fl_bw_capacity</i>  | (Optional) Ingress Flow BW capacity  |
| <i>egr_fl_bw_available</i>  | (Optional) Egress Flow BW available  |
| <i>egr_fl_bw_usable</i>     | (Optional) Egress Flow BW usable     |
| <i>egr_fl_bw_capacity</i>   | (Optional) Egress Flow BW capacity   |
| <i>nbr_dev_id</i>           | (Optional) Neighbor device ID        |
| <i>nbr_dev_name</i>         | (Optional) Neighbor device name      |
| <i>external</i>             | (Optional) External                  |

### Command Mode

- /exec

# show ngoam interface statistics

```
show ngoam interface statistics [ __readonly__ [ TABLE_stats { <interface-name> <tx> <rx> } <statistics-end> ] ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| TABLE_stats           | (Optional) interface statistics table            |
| <i>interface-name</i> | (Optional) interface namestring                  |
| <i>tx</i>             | (Optional) ngoam probe transmit on the interface |
| <i>rx</i>             | (Optional) ngoam probe receive on the interface  |
| show                  | Show running system information                  |
| ngoam                 | ngoam  |
| interface             | probe packet interface                           |
| statistics            | ngoam probe interface statistics                 |
| __readonly__          | (Optional) Read Only                             |
| <i>statistics-end</i> | (Optional) statistics table end marker           |

## Command Mode

- /exec

# show ngoam loopback

```
show ngoam loopback { { statistics { session { <handle> | all } | summary } } | { status { session { <handle>
| all } } } } [ __readonly__ [ TABLE_statistics { <sender-handle> [ <connect-check-id> ] <last-clear-stats>
TABLE_stats_attr { <stat-attr> <stat-value> } } ] [ TABLE_status { <st-sender-handle> <type> <state> } ]
[ TABLE_statistics_summary { <last-clear-summary-stats> <tx> <rx> <timeout> <unsent> <req-sw-fwd>
<req-drop> <resp-tx> <resp-rx> <resp-unsent> <resp-dup> <resp-sw-fwd> <resp-drop> } ] ]
```

## Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information                   |
| ngoam                           | ngoam   |
| loopback                        | ngoam loopback                                    |
| statistics                      | ngoam loopback statistics                         |
| summary                         | ngoam loopback statistics summary                 |
| status                          | ngoam loopback status                             |
| session                         | ngoam loopback session                            |
| session                         | ngoam loopback session                            |
| <i>handle</i>                   | ngoam loopback session handle                     |
| <i>handle</i>                   | ngoam loopback session handle                     |
| all                             | Display results for all ping/loopback sessions    |
| all                             | Display results for all ping/loopback sessions    |
| TABLE_statistics                | (Optional) statistics table                       |
| <i>sender-handle</i>            | (Optional) sender handle                          |
| <i>connect-check-id</i>         | (Optional) connect check id                       |
| <i>last-clear-stats</i>         | (Optional) last clear time for statistics         |
| TABLE_stats_attr                | (Optional) Stats attributes table                 |
| <i>stat-attr</i>                | (Optional) stats type                             |
| <i>stat-value</i>               | (Optional) stats value                            |
| TABLE_statistics_summary        | (Optional) statistics summary table               |
| <i>last-clear-summary-stats</i> | (Optional) last clear time for summary statistics |
| <i>tx</i>                       | (Optional) summary request sent                   |
| <i>rx</i>                       | (Optional) summary reply received                 |



|                         |   |
|-------------------------|---|
| <i>timeout</i>          | (Optional) summary timeout              |
| <i>unsent</i>           | (Optional) summary unsent               |
| <i>resp-tx</i>          | (Optional) summary resp tx              |
| <i>resp-rx</i>          | (Optional) summary resp rx              |
| <i>resp-unsent</i>      | (Optional) summary resp unsent          |
| <i>resp-dup</i>         | (Optional) Duplicate responses received |
| <i>req-sw-fwd</i>       | (Optional) Request pkts sw fwded        |
| <i>resp-sw-fwd</i>      | (Optional) Response pkts sw fwded       |
| <i>req-drop</i>         | (Optional) Requests dropped             |
| <i>resp-drop</i>        | (Optional) Responses dropped            |
| TABLE_status            | (Optional) database status table        |
| <i>st-sender-handle</i> | (Optional) sender handle                |
| <i>type</i>             | (Optional) ngoam ping type              |
| <i>state</i>            | (Optional) ngoam ping state             |
| <u>__readonly__</u>     | (Optional) Read Only                    |

### Command Mode

- /exec

## show ngoam pathtrace

```
show ngoam pathtrace { { statistics { summary | { session { <handle> | all } } } } | { database session {
<handle> | all } [ detail ] } } [ __readonly__ [ { TABLE_stats <sender-handle> <last-clear-stats> [
TABLE_stats_fields { <stat-attr> <stat-value> } ] } ] [ { TABLE_summary <last-clear-summary-stats> <tx>
<rx> <timeout> <unsent> <req-sw-fwd> <req-drop> <resp-tx> <resp-rx> <resp-unsent> <resp-dup>
<resp-sw-fwd> <resp-drop> } ] [ { TABLE_database <db-sender-handle> <db-start-time> <db-end-time>
<db-last-clear-stats> <db-tx> <db-rx> <db-timeout> <db-unsent> <db-req-sw-fwd> <db-req-drop> <db-resp-tx>
<db-resp-rx> <db-resp-unsent> <db-resp-dup> <db-resp-sw-fwd> <db-resp-drop> { TABLE_db_reply
<seq-number> <cli-status> [ <reply-ip> ] [ <ingress-if> ] [ <ingress-if-state> ] [ <egress-if> ] [ <egress-if-state>
] [ { TABLE_ifstats <if-name> <rx-len> <rx-bytes> <rx-pkt-rate> <rx-byte-rate> <rx-load> <rx-ucast>
<rx-mcast> <rx-bcast> <rx-discards> <rx-errors> <rx-unknown> <rx-bandwidth> <tx-len> <tx-bytes>
<tx-pkt-rate> <tx-byte-rate> <tx-load> <tx-ucast> <tx-mcast> <tx-bcast> <tx-discards> <tx-errors>
<tx-bandwidth> } ] [ <end-row> ] + } } ] ]
```

### Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information            |
| ngoam                   | ngoam                                      |
| pathtrace               | ngoam pathtrace                            |
| statistics              | ngoam pathtrace statistics                 |
| summary                 | ngoam pathtrace statistics summary         |
| session                 | ngoam pathtrace session                    |
| <i>handle</i>           | ngoam pathtrace session handle             |
| all                     | Display results for all pathtrace sessions |
| database                | ngoam pathtrace results from the database  |
| session                 | ngoam pathtrace session                    |
| all                     | Display results for all pathtrace sessions |
| <i>handle</i>           | ngoam pathtrace session handle             |
| detail                  | (Optional) Show detailed stats if present  |
| __readonly__            | (Optional) Read Only                       |
| TABLE_stats             | (Optional) statistics table                |
| <i>sender-handle</i>    | (Optional) sender handle                   |
| <i>last-clear-stats</i> | (Optional) last clear time for statistics  |
| TABLE_stats_fields      | (Optional) statistics entries              |
| <i>stat-attr</i>        | (Optional) stats type                      |

|                                 |   |
|---------------------------------|---|
| <i>stat-value</i>               | (Optional) stats value                            |
| TABLE_summary                   | (Optional) statistics summary table               |
| <i>last-clear-summary-stats</i> | (Optional) last clear time for summary statistics |
| <i>tx</i>                       | (Optional) summary request sent                   |
| <i>rx</i>                       | (Optional) summary reply received                 |
| <i>timeout</i>                  | (Optional) summary timeout                        |
| <i>unsent</i>                   | (Optional) summary unsent                         |
| <i>req-sw-fwd</i>               | (Optional) Request pkts sw fwded                  |
| <i>req-drop</i>                 | (Optional) Requests dropped                       |
| <i>resp-tx</i>                  | (Optional) summary resp tx                        |
| <i>resp-rx</i>                  | (Optional) summary resp rx                        |
| <i>resp-unsent</i>              | (Optional) summary resp unsent                    |
| <i>resp-dup</i>                 | (Optional) Duplicate responses received           |
| <i>resp-sw-fwd</i>              | (Optional) Response pkts sw fwded                 |
| <i>resp-drop</i>                | (Optional) Responses dropped                      |
| TABLE_database                  | (Optional) pathtrace database                     |
| <i>db-sender-handle</i>         | (Optional) Sender handle                          |
| <i>db-start-time</i>            | (Optional) Start time                             |
| <i>db-end-time</i>              | (Optional) End time                               |
| <i>db-last-clear-stats</i>      | (Optional) Last clear stats                       |
| <i>db-tx</i>                    | (Optional) Tx packets                             |
| <i>db-rx</i>                    | (Optional) Rx packets                             |
| <i>db-timeout</i>               | (Optional) Timeout                                |
| <i>db-unsent</i>                | (Optional) Unsent                                 |
| <i>db-req-sw-fwd</i>            | (Optional) Request pkts sw fwded                  |
| <i>db-req-drop</i>              | (Optional) Requests dropped                       |
| <i>db-resp-tx</i>               | (Optional) Response tx                            |
| <i>db-resp-rx</i>               | (Optional) Response Rx                            |
| <i>db-resp-unsent</i>           | (Optional) Response unsent                        |

|                         |                                     |
|-------------------------|-------------------------------------|
| <i>db-resp-dup</i>      | (Optional) Duplicate response recvd |
| <i>db-resp-sw-fwd</i>   | (Optional) Response pkts sw fwded   |
| <i>db-resp-drop</i>     | (Optional) Responses dropped        |
| TABLE_db_reply          | (Optional) Replies                  |
| <i>seq-number</i>       | (Optional) Sequence number          |
| <i>cli-status</i>       | (Optional) ngoam pathtrace status   |
| <i>reply-ip</i>         | (Optional) ngoam pathtrace reply ip |
| <i>ingress-if</i>       | (Optional) Ingress interface        |
| <i>ingress-if-state</i> | (Optional) Ingress interface state  |
| <i>egress-if</i>        | (Optional) Egress interface         |
| <i>egress-if-state</i>  | (Optional) Egress interface state   |
| <i>end-row</i>          | (Optional) Row end                  |
| TABLE_ifstats           | (Optional) Interface statistics     |
| <i>if-name</i>          | (Optional) Interface name           |
| <i>rx-len</i>           | (Optional) Rx Length                |
| <i>rx-bytes</i>         | (Optional) Rx Bytes                 |
| <i>rx-pkt-rate</i>      | (Optional) Rx packet rate           |
| <i>rx-byte-rate</i>     | (Optional) Rx byte rate             |
| <i>rx-load</i>          | (Optional) Rx load                  |
| <i>rx-ucast</i>         | (Optional) Rx unicast pkts          |
| <i>rx-mcast</i>         | (Optional) Rx mcast pkts            |
| <i>rx-bcast</i>         | (Optional) Rx bcast pkts            |
| <i>rx-discards</i>      | (Optional) Rx discards              |
| <i>rx-errors</i>        | (Optional) Rx errors                |
| <i>rx-unknown</i>       | (Optional) Rx unknown               |
| <i>rx-bandwidth</i>     | (Optional) Rx bandwidth             |
| <i>tx-len</i>           | (Optional) Tx Length                |
| <i>tx-bytes</i>         | (Optional) Tx Bytes                 |
| <i>tx-pkt-rate</i>      | (Optional) Tx packet rate           |

|                     |                            |
|---------------------|----------------------------|
| <i>tx-byte-rate</i> | (Optional) Tx byte rate    |
| <i>tx-load</i>      | (Optional) Tx load         |
| <i>tx-ucast</i>     | (Optional) Tx unicast pkts |
| <i>tx-mcast</i>     | (Optional) Tx mcast pkts   |
| <i>tx-bcast</i>     | (Optional) Tx bcast pkts   |
| <i>tx-discards</i>  | (Optional) Tx discards     |
| <i>tx-errors</i>    | (Optional) Tx unknown      |
| <i>tx-bandwidth</i> | (Optional) Tx bandwidth    |

**Command Mode**

- /exec

## show ngoam probe

```
show ngoam probe { { statistics { summary | { session { <handle> | all } } } } [ __readonly__ [ TABLE_stats
{ <sender-handle> <transaction-id> <dst-vip> <vni> <oam-type> <flow-str> <last-clear-stats> <req-sent>
<req-not-sent> } <statistics-end> ] [ TABLE_summary { <last-clear-summary-stats> <tx> <rx> <timeout>
<unsent> <resp-tx> <resp-rx> <resp-unsent> } ] ]
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information                   |
| ngoam                           | ngoam   |
| probe                           | ngoam probe                                       |
| statistics                      | ngoam probe statistics                            |
| summary                         | ngoam probe statistics summary                    |
| session                         | ngoam probe session                               |
| <i>handle</i>                   | ngoam probe session handle                        |
| all                             | Display results for all probe sessions            |
| TABLE_stats                     | (Optional) statistics table                       |
| <i>sender-handle</i>            | (Optional) sender handle                          |
| <i>transaction-id</i>           | (Optional) Transaction Identifier                 |
| <i>dst-vip</i>                  | (Optional) Destination Vtep ip address            |
| <i>vni</i>                      | (Optional) vxlan header vni                       |
| <i>oam-type</i>                 | (Optional) draft pang oam type                    |
| <i>flow-str</i>                 | (Optional) 128 byte flow string.                  |
| <i>last-clear-stats</i>         | (Optional) last clear time for statistics         |
| <i>req-sent</i>                 | (Optional) request sent                           |
| <i>req-not-sent</i>             | (Optional) request not sent or failed             |
| <i>statistics-end</i>           | (Optional) statistics table end marker            |
| TABLE_summary                   | (Optional) statistics summary table               |
| <i>last-clear-summary-stats</i> | (Optional) last clear time for summary statistics |
| <i>tx</i>                       | (Optional) summary request sent                   |
| <i>rx</i>                       | (Optional) summary reply received                 |

|                     |                                |
|---------------------|--------------------------------|
| <i>timeout</i>      | (Optional) summary timeout     |
| <i>unsent</i>       | (Optional) summary unsent      |
| <i>resp-tx</i>      | (Optional) summary resp tx     |
| <i>resp-rx</i>      | (Optional) summary resp rx     |
| <i>resp-unsent</i>  | (Optional) summary resp unsent |
| <i>__readonly__</i> | (Optional) Read Only           |

**Command Mode**

- /exec

## show ngoam traceroute statistics

```
show ngoam traceroute statistics { summary | { session { <handle> | all } } [ __readonly__ [ TABLE_stats
{ <sender-handle> <last-clear-stats> TABLE_stats_attr { <stat-attr> <stat-value> } } ] [ TABLE_summary
{ <last-clear-summary-stats> <tx> <rx> <timeout> <unsent> <resp-tx> <resp-rx> <resp-unsent> <resp-dup>
} ] ]
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information                   |
| ngoam                           | ngoam   |
| traceroute                      | ngoam traceroute                                  |
| statistics                      | ngoam traceroute statistics                       |
| summary                         | ngoam traceroute statistics summary               |
| session                         | ngoam traceroute session                          |
| <i>handle</i>                   | ngoam traceroute session handle                   |
| all                             | Display results for all traceroute sessions       |
| TABLE_stats                     | (Optional) statistics table                       |
| <i>sender-handle</i>            | (Optional) sender handle                          |
| <i>last-clear-stats</i>         | (Optional) last clear time for statistics         |
| TABLE_stats_attr                | (Optional) Stats attributes table                 |
| <i>stat-attr</i>                | (Optional) stats type                             |
| <i>stat-value</i>               | (Optional) stats value                            |
| TABLE_summary                   | (Optional) statistics summary table               |
| <i>last-clear-summary-stats</i> | (Optional) last clear time for summary statistics |
| <i>tx</i>                       | (Optional) summary request sent                   |
| <i>rx</i>                       | (Optional) summary reply received                 |
| <i>timeout</i>                  | (Optional) summary timeout                        |
| <i>unsent</i>                   | (Optional) summary unsent                         |
| <i>resp-tx</i>                  | (Optional) summary resp tx                        |
| <i>resp-rx</i>                  | (Optional) summary resp rx                        |
| <i>resp-unsent</i>              | (Optional) summary resp unsent                    |



|                     |   |
|---------------------|---|
| <i>resp-dup</i>     | (Optional) Duplicate responses received |
| <i>__readonly__</i> | (Optional) Read Only                    |

**Command Mode**

- /exec

## show ngoam xconnect session

```
show ngoam xconnect session { <id> [ iodb ] | all [ dbdump ] } [ __readonly__ [ TABLE_xc_db_summary
{ [ <legend> ] <vlan-id> <peer-ip> <vni> <db-state> <local-if> <local-if-state> <remote-if> <remote-if-state>
[ <end-row> ] + } + ] [ ENTRY_xc_db_detail { <detail> <d-vlan-id> <d-peer-ip> [ <peer-name> ] <d-vni>
<d-db-state> <last-state-change-ts> <d-local-if> <d-local-if-state> <vpc-if> <vpc-if-state> <remote-if-detail>
<remote-if-detail-state> <remote-vpc-if> <remote-vpc-if-state> [ <d-end-row> ] + } ] ]
```

### Syntax Description

|                               |   |
|-------------------------------|---|
| show                          | Show running system information           |
| ngoam                         | ngoam information                         |
| xconnect                      | crossconnect info                         |
| session                       | xc session id                             |
| <i>id</i>                     | Vlan-id of the xc                         |
| iodb                          | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| all                           | show summary info for all sessions        |
| <u>__readonly__</u>           | (Optional) Read Only                      |
| TABLE_xc_db_summary           | (Optional) XC Db table                    |
| ENTRY_xc_db_detail            | (Optional) XC Db detail                   |
| <i>detail</i>                 | (Optional) Detail or not                  |
| <i>vlan-id</i>                | (Optional) Vlan id                        |
| <i>d-vlan-id</i>              | (Optional) Vlan id                        |
| <i>vni</i>                    | (Optional) vni                            |
| <i>d-vni</i>                  | (Optional) vni                            |
| <i>local-if</i>               | (Optional) Interface                      |
| <i>d-local-if</i>             | (Optional) Interface                      |
| <i>local-if-state</i>         | (Optional) Interface state                |
| <i>d-local-if-state</i>       | (Optional) Interface state                |
| <i>remote-if</i>              | (Optional) Remote interface               |
| <i>remote-if-state</i>        | (Optional) Remote interface state         |
| <i>remote-if-detail</i>       | (Optional) Remote interface               |
| <i>remote-if-detail-state</i> | (Optional) Remote interface state         |

|                             |   |
|-----------------------------|---|
| <i>vpc-if</i>               | (Optional) Interface                      |
| <i>vpc-if-state</i>         | (Optional) Interface state                |
| <i>remote-vpc-if</i>        | (Optional) Remote vpc interface           |
| <i>remote-vpc-if-state</i>  | (Optional) Remote vpc interface state     |
| <i>db-state</i>             | (Optional) XC state                       |
| <i>d-db-state</i>           | (Optional) XC state                       |
| <i>last-state-change-ts</i> | (Optional) Last state change timestamp    |
| <i>peer-ip</i>              | (Optional) Peer ip                        |
| <i>d-peer-ip</i>            | (Optional) Peer ip                        |
| <i>peer-name</i>            | (Optional) Peer name                      |
| <i>end-row</i>              | (Optional) end row                        |
| <i>d-end-row</i>            | (Optional) end row                        |
| <i>legend</i>               | (Optional) legend                         |
| dbdump                      | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |

**Command Mode**

- /exec

## show npv external-interface-usage

```
show npv external-interface-usage [ server-interface <if0> ] [ __readonly__ { TABLE_intf_usage <svr_intf>
<ext_intf> } ]
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information                                |
| npv                      | Show information about NPV                                     |
| external-interface-usage | Show external interface usage by server interfaces             |
| server-interface         | (Optional) Show external interface usage by a server interface |
| <i>if0</i>               | (Optional)   |
| __readonly__             | (Optional) Read Only   |
| TABLE_intf_usage         | (Optional) External Interfaces Usage Table                     |
| <i>svr_intf</i>          | (Optional) Server Interface                                    |
| <i>ext_intf</i>          | (Optional) External Interface                                  |

### Command Mode

- /exec

## show npv flogi-table

```
show npv flogi-table [ { interface <i0> | vsan <i0> } ] [ __readonly__ [ [ TABLE_flogi <svr_intf> <vsan_id>
<fcid> <pwwn> <ext_intf> <nwwn> ] [ <flogi_count> ] ] ]
```

### Syntax Description

|                    |   |
|--------------------|---|
| show               | Show running system information   |
| npv                | Show information about NPV  |
| flogi-table        | Show information about FLOGI sessions                                   |
| interface          | (Optional) Show information about FLOGI sessions for a server interface |
| <i>i0</i>          | (Optional)  |
| vsan               | (Optional) Show information about FLOGI sessions for a VSAN             |
| <i>i0</i>          | (Optional)  |
| __readonly__       | (Optional) Read Only  |
| TABLE_flogi        | (Optional) FLOGI Table  |
| <i>svr_intf</i>    | (Optional) Server Interface   |
| <i>vsan_id</i>     | (Optional) VSAN ID  |
| <i>fcid</i>        | (Optional) FLOGI FCID   |
| <i>pwwn</i>        | (Optional) The PWWN   |
| <i>ext_intf</i>    | (Optional) External Interface   |
| <i>nwwn</i>        | (Optional) The NWWN   |
| <i>flogi_count</i> | (Optional) Total FLOGI Count  |

### Command Mode

- /exec

## show npv status

```
show npv status [ vsan <i0> ] [ __readonly__ [ [ <npiv_status> ] [ <load_balance> ] [ { TABLE_extintf
<ext_intf> [ <ext_vsan> ] [ <ext_fcid> ] <ext_state> [ { TABLE_vsan <vsan_vsan> <vsan_state> [ <vsan_fcid>
] } ] ] ] <ext_intf_count> [ { TABLE_svrntf <svr_intf> <svr_vsan> <svr_state> } ] <svr_intf_count> ] ]
```

### Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                |
| npv            | Show information about NPV                     |
| status         | Show NPV status                                |
| vsan           | (Optional) Show NPV status for a specific VSAN |
| i0             | (Optional)                                     |
| __readonly__   | (Optional) Read Only                           |
| npiv_status    | (Optional) NPIV enable/disable status          |
| load_balance   | (Optional) disruptive load balance status      |
| TABLE_extintf  | (Optional) External Interfaces Table           |
| ext_intf       | (Optional) External Interface                  |
| ext_vsan       | (Optional) External Interface VSAN             |
| ext_fcid       | (Optional) External Interface FCID             |
| ext_state      | (Optional) External Interface State            |
| TABLE_vsan     | (Optional) External Interfaces VSAN Table      |
| vsan_vsan      | (Optional) External Interface VSAN             |
| vsan_state     | (Optional) VSAN State                          |
| vsan_fcid      | (Optional) VSAN FCID                           |
| ext_intf_count | (Optional) External Interface count            |
| TABLE_svrntf   | (Optional) Server Interfaces Table             |
| svr_intf       | (Optional) Server Interface                    |
| svr_vsan       | (Optional) Server Interface VSAN               |
| svr_state      | (Optional) Server Interface State              |
| svr_intf_count | (Optional) Server Interface count              |

### Command Mode

- /exec

# show npv traffic-map

```
show npv traffic-map [ server-interface <iif0> ] [ __readonly__ [ { TABLE_traffic_map <svr_intf> <ext_intf>
} ] ]
```

## Syntax Description

|                   |  |
|-------------------|--|
| show              | Show running system information                                      |
| npv               | Show information about NPV   |
| traffic-map       | Show information about Traffic Map                                   |
| server-interface  | (Optional) Show information about Traffic map for a server interface |
| <i>iif0</i>       | (Optional)   |
| __readonly__      | (Optional) Read Only   |
| TABLE_traffic_map | (Optional) Traffic Map Table   |
| <i>svr_intf</i>   | (Optional) Server Interface  |
| <i>ext_intf</i>   | (Optional) External Interface  |

## Command Mode

- /exec



## show ntp access-groups

```
show ntp access-groups [ __readonly__ [ <matchall> ] [ { TABLE_accessgroups <accesslist> [ <type> } ] ]
```

### Syntax Description

|                    |                                 |
|--------------------|---------------------------------|
| show               | Show running system information |
| ntp                | Show NTP information            |
| access-groups      | Display NTP access groups       |
| __readonly__       | (Optional)                      |
| <i>matchall</i>    | (Optional) matchall             |
| TABLE_accessgroups | (Optional) accessgroups         |
| <i>accesslist</i>  | (Optional) accesslist           |
| <i>type</i>        | (Optional) type                 |

### Command Mode

- /exec

# show ntp authentication-keys

```
show ntp authentication-keys [ __readonly__ [ { TABLE_authkeys <Authkey> [ <MD5String> ] } ] ]
```

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| ntp                 | Show NTP information            |
| authentication-keys | Display authentication keys     |
| __readonly__        | (Optional)                      |
| TABLE_authkeys      | (Optional) authentication keys  |
| <i>Authkey</i>      | (Optional) authentication key   |
| <i>MD5String</i>    | (Optional) password             |

## Command Mode

- /exec

# show ntp authentication-status

show ntp authentication-status [ \_\_readonly\_\_ [ <authentication> ] ]

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information            |
| ntp                   | Show NTP information                       |
| authentication-status | NTP Authentication Status                  |
| __readonly__          | (Optional)                                 |
| <i>authentication</i> | (Optional) authentication enabled/disabled |

## Command Mode

- /exec

# show ntp information

show ntp information [ *\_\_readonly\_\_* [ *<system\_type>* ] [ *<software\_version>* ] ]

## Syntax Description

|                         |                                 |
|-------------------------|---------------------------------|
| show                    | Show running system information |
| ntp                     | Show NTP information            |
| information             | Show ntp information            |
| <i>__readonly__</i>     | (Optional)                      |
| <i>system_type</i>      | (Optional) Ntp System Type      |
| <i>software_version</i> | (Optional) Ntp Software Version |

## Command Mode

- /exec

# show ntp logging-status

show ntp logging-status [ \_\_readonly\_\_ [ <loggingstatus> ] ]

## Syntax Description

|                      |                                     |
|----------------------|-------------------------------------|
| show                 | Show running system information     |
| ntp                  | Show NTP information                |
| logging-status       | Display NTP logging status          |
| __readonly__         | (Optional)                          |
| <i>loggingstatus</i> | (Optional) logging enabled/disabled |

## Command Mode

- /exec

# show ntp peer-status

```
show ntp peer-status [ __readonly__ [ <totalpeers> ] [ { TABLE_peersstatus <syncmode> <remote> <local>
<st> <poll> <reach> <delay> [ <vrf> ] } ] ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information          |
| ntp                 | Show NTP information                     |
| peer-status         | Show the status for all the server/peers |
| <i>__readonly__</i> | (Optional)                               |
| <i>totalpeers</i>   | (Optional) totalpeers                    |
| TABLE_peersstatus   | (Optional) peersstatus                   |
| <i>syncmode</i>     | (Optional) peermode                      |
| <i>remote</i>       | (Optional) remote addr                   |
| <i>local</i>        | (Optional) local addr                    |
| <i>st</i>           | (Optional) stratum                       |
| <i>poll</i>         | (Optional) ntp poll                      |
| <i>reach</i>        | (Optional) reach                         |
| <i>delay</i>        | (Optional) delay                         |
| <i>vrf</i>          | (Optional) vrf name                      |

## Command Mode

- /exec

# show ntp peers

```
show ntp peers [ __readonly__ [ { TABLE_peers <PeerIPAddress> <serv_peer> <conf_flag> } ] ]
```

## Syntax Description

|                      |                                  |
|----------------------|----------------------------------|
| show                 | Show running system information  |
| ntp                  | Show NTP information             |
| peers                | Show all the peers.              |
| __readonly__         | (Optional)                       |
| TABLE_peers          | (Optional) peers                 |
| <i>PeerIPAddress</i> | (Optional) peer Ip addr          |
| <i>serv_peer</i>     | (Optional) server or peer        |
| <i>conf_flag</i>     | (Optional) configured or dynamic |

## Command Mode

- /exec

# show ntp rts-update

```
show ntp rts-update [ __readonly__ [ <rtsupdate> ] ]
```

## Syntax Description

|                  |  |
|------------------|--|
| show             | Show running system information        |
| ntp              | Show NTP information                   |
| rts-update       | Show if the RTS update is enabled      |
| __readonly__     | (Optional)                             |
| <i>rtsupdate</i> | (Optional) rts update enabled/disabled |

## Command Mode

- /exec



# show ntp session status

```
show ntp session status [ __readonly__ [ <session_status> ] ]
```

## Syntax Description

|                       |                                 |
|-----------------------|---------------------------------|
| show                  | Show running system information |
| ntp                   | Show NTP information            |
| session               | Show the session information    |
| status                | Show the session status         |
| <i>__readonly__</i>   | (Optional)                      |
| <i>session_status</i> | (Optional) last session status  |

## Command Mode

- /exec

# show ntp source-interface

show ntp source-interface [ \_\_readonly\_\_ [ <sourceinterface> ] ]

## Syntax Description

|                        |                                 |
|------------------------|---------------------------------|
| show                   | Show running system information |
| ntp                    | Show NTP information            |
| source-interface       | Source interface configured     |
| __readonly__           | (Optional)                      |
| <i>sourceinterface</i> | (Optional) source interface     |

## Command Mode

- /exec

# show ntp source

```
show ntp source [ __readonly__ [ { TABLE_sourceip <sourceip> } ] ]
```

## Syntax Description

|                 |                                 |
|-----------------|---------------------------------|
| show            | Show running system information |
| ntp             | Show NTP information            |
| source          | Source IP address configured    |
| __readonly__    | (Optional)                      |
| TABLE_sourceip  | (Optional) source ip table      |
| <i>sourceip</i> | (Optional) source ip addr       |

## Command Mode

- /exec

## show ntp statistics

```
show ntp statistics [ [ io ] | [ local ] | [ memory ] | peer { ipaddr { <ipv4_0> | <ipv6_1> } | name <s0> } ] [
__readonly__ [ { <iotimesincereset> <ioreceivebuffers> <iofreereceivebuffers> <iousedreceivebuffers>
<iolowwaterrefills> <iodroppedpackets> <ioignoredpackets> <ioreceivedpackets> <iopacketsent>
<iopacketsnotsent> <iointerruptshandled> <ioreceivedbyint> } ] [ { <localsystemuptime> <localtimesincereset>
<localoldversionpackets> <localnewversionpackets> <localunknownversionnumber> <localbadpacketformat>
<localpacketsprocessed> <localbadauthentication> [ <localpacketsrejected> } ] [ { <memtimesincereset>
<memtotalpeermemory> <memfreepeermemory> <memcallstofindpeer> <memnewpeerallocations>
<mempeerdemobilizations> <memhashtablecounts> } ] [ { <peeripremotehost> <peeriplocalinterface>
<peeriptimelastreceived> <peeriptimeuntilnextsend> <peeripreachabilitychange> <peerippacketsent>
<peerippacketsreceived> <peeripbadauthentication> <peeripbogusorigin> <peeripduplicate>
<peeripbaddispersion> <peeripbadreferencetime> <peeripcandidateorder> } ] [ { <peernamereMOTEhost>
<peernamelocalinterface> <peernametimelastreceived> <peernametimeuntilnextsend>
<peernamereachabilitychange> <peernamepacketsent> <peernamepacketsreceived>
<peernamebadauthentication> <peernamebogusorigin> <peernameduplicate> <peernameduplicate>
<peernamebaddispersion> <peernamebadreferencetime> <peernamecandidateorder> } ] ] ]
```

### Syntax Description

|                             |   |
|-----------------------------|---|
| show                        | Show running system information                                 |
| ntp                         | Show NTP information  |
| statistics                  | Show the NTP statistics   |
| io                          | (Optional) Show the input-output statistics.                    |
| local                       | (Optional) Show the counters maintained by the local NTP.       |
| memory                      | (Optional) Show the statistics counters related to memory code. |
| peer                        | Show the per-peer statistics counter of a peer.                 |
| ipaddr                      | Peer's IP address   |
| <i>ipv4_0</i>               |   |
| name                        | Peer's Name   |
| <i>s0</i>                   |   |
| <i>__readonly__</i>         | (Optional)  |
| <i>iotimesincereset</i>     | (Optional) time since reset                                     |
| <i>ioreceivebuffers</i>     | (Optional) receive buffers                                      |
| <i>iofreereceivebuffers</i> | (Optional) free receive buffers                                 |
| <i>iousedreceivebuffers</i> | (Optional) used receive buffers                                 |
| <i>iolowwaterrefills</i>    | (Optional) low water refills                                    |

|                                  |                                     |
|----------------------------------|-------------------------------------|
| <i>iodroppedpackets</i>          | (Optional) dropped packets          |
| <i>ioignoredpackets</i>          | (Optional) ignored packets          |
| <i>ioreceivedpackets</i>         | (Optional) received packets         |
| <i>iopacketsent</i>              | (Optional) packets sent             |
| <i>iopacketsnotsent</i>          | (Optional) packets not sent         |
| <i>iointerruptshandled</i>       | (Optional) interrupts handled       |
| <i>ioreceivedbyint</i>           | (Optional) received by int          |
| <i>localsystemuptime</i>         | (Optional) system up time           |
| <i>localtimesincereset</i>       | (Optional) time since reset         |
| <i>localoldversionpackets</i>    | (Optional) old version packets      |
| <i>localnewversionpackets</i>    | (Optional) new version packets      |
| <i>localunknownversionnumber</i> | (Optional) unknown version number   |
| <i>localbadpacketformat</i>      | (Optional) bad packet format        |
| <i>localpacketsprocessed</i>     | (Optional) packets processed        |
| <i>localbadauthentication</i>    | (Optional) bad authentication       |
| <i>localpacketsrejected</i>      | (Optional) packets rejected         |
| <i>memtimesincereset</i>         | (Optional) time since reset         |
| <i>memtotalpeermemory</i>        | (Optional) total peer memory        |
| <i>memfreepeermemory</i>         | (Optional) free peer memory         |
| <i>memcallstofindpeer</i>        | (Optional) calls to find peer       |
| <i>memnewpeerallocations</i>     | (Optional) new peer allocations     |
| <i>mempeerdemobilizations</i>    | (Optional) peer demobilizations     |
| <i>memhashtablecounts</i>        | (Optional) hash table counts        |
| <i>peeripremotehost</i>          | (Optional) peeripremotehost         |
| <i>peeriplocalinterface</i>      | (Optional) peeriplocalinterface     |
| <i>peeriptimelastreceived</i>    | (Optional) peeriptimelastreceived   |
| <i>peeriptimeuntilnextsend</i>   | (Optional) peeriptimeuntilnextsend  |
| <i>peeripreachabilitychange</i>  | (Optional) peeripreachabilitychange |
| <i>peerippacketsent</i>          | (Optional) peerippacketsent         |

|                                    |  |
|------------------------------------|--|
| <i>peerippacketsreceived</i>       | (Optional) peerippacketsreceived       |
| <i>peeripbadauthentication</i>     | (Optional) peeripbadauthentication     |
| <i>peeripbogusorigin</i>           | (Optional) peeripbogusorigin           |
| <i>peeripduplicate</i>             | (Optional) peeripduplicate             |
| <i>peeripbaddispersion</i>         | (Optional) peeripbaddispersion         |
| <i>peeripbadreferencetime</i>      | (Optional) peeripbadreferencetime      |
| <i>peeripcandidateorder</i>        | (Optional) peeripcandidateorder        |
| <i>peername remotehost</i>         | (Optional) peername remotehost         |
| <i>peername localinterface</i>     | (Optional) peername localinterface     |
| <i>peername timelastreceived</i>   | (Optional) peername timelastreceived   |
| <i>peername timeuntilnextsend</i>  | (Optional) peername timeuntilnextsend  |
| <i>peername reachabilitychange</i> | (Optional) peername reachabilitychange |
| <i>peername packetsent</i>         | (Optional) peername packetsent         |
| <i>peername packetsreceived</i>    | (Optional) peername packetsreceived    |
| <i>peername badauthentication</i>  | (Optional) peername badauthentication  |
| <i>peername bogusorigin</i>        | (Optional) peername bogusorigin        |
| <i>peername duplicate</i>          | (Optional) peername duplicate          |
| <i>peername baddispersion</i>      | (Optional) peername baddispersion      |
| <i>peername badreferencetime</i>   | (Optional) peername badreferencetime   |
| <i>peername candidateorder</i>     | (Optional) peername candidateorder     |

### Command Mode

- /exec

# show ntp status

```
show ntp status [ __readonly__ [ <distribution> ] [ <operational_state> ] ]
```

## Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information          |
| ntp                      | Show NTP information                     |
| status                   | Show the NTP distribution status         |
| <i>__readonly__</i>      | (Optional)                               |
| <i>distribution</i>      | (Optional) distribution enabled/disabled |
| <i>operational_state</i> | (Optional) last operation status         |

## Command Mode

- /exec

## show ntp trusted-keys

```
show ntp trusted-keys [ __readonly__ [ { TABLE_trustkeys <key> } ] ]
```

### Syntax Description

|                 |                                 |
|-----------------|---------------------------------|
| show            | Show running system information |
| ntp             | Show NTP information            |
| trusted-keys    | Display trusted keys            |
| __readonly__    | (Optional)                      |
| TABLE_trustkeys | (Optional) trusted keys         |
| <i>key</i>      | (Optional) trusted key          |

### Command Mode

- /exec



# show nve adjacency mpls

```
show nve adjacency mpls [ __readonly__ TABLE_nve_mpls_adj [ { <peer-ip> | <peer-ipv6> } <evi> <label-sr>
<learn-mask> <pending-state> <adj-state> ] ]
```

## Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Display NVE information                     |
| nve                       | Configure NVE information                   |
| adjacency                 | Downstream Adjacencies                      |
| mpls                      | Segment routing                             |
| <i>__readonly__</i>       | (Optional)                                  |
| <i>TABLE_nve_mpls_adj</i> | (Optional) xml schema for sr nve parameters |
| <i>peer-ip</i>            | (Optional) Peer IP address v4               |
| <i>evi</i>                | (Optional) EVI value                        |
| <i>label-sr</i>           | (Optional) SR Label                         |
| <i>learn-mask</i>         | (Optional) Learn mask for the peer          |
| <i>pending-state</i>      | (Optional) Peer adjacency pending state     |
| <i>adj-state</i>          | (Optional) Peer adjacency state             |

## Command Mode

- /exec

## show nve bfd neighbors

```
show nve bfd neighbors [ __readonly__ [ TABLE_nve_bfd_neighbors <if-name> [ { <neighbor-vtep-ip>
<neighbor-inner-ip> <neighbor-inner-mac> <neighbor-cc-state> } ] ] ]
```

### Syntax Description

|                                |  |
|--------------------------------|--|
| show                           | Display NVE information                            |
| nve                            | Configure NVE information                          |
| bfd                            | BFD  |
| neighbors                      | neighbors  |
| <i>__readonly__</i>            | (Optional)   |
| <i>TABLE_nve_bfd_neighbors</i> | (Optional) BFD neighbors schema                    |
| <i>if-name</i>                 | (Optional) if-name                                 |
| <i>neighbor-vtep-ip</i>        | (Optional) Remote VTEP IP address                  |
| <i>neighbor-inner-ip</i>       | (Optional) Remote VTEP Inner IP address            |
| <i>neighbor-inner-mac</i>      | (Optional) Remote VTEP Inner MAC address           |
| <i>neighbor-cc-state</i>       | (Optional) Remote VTEP vPC consistency check state |

### Command Mode

- /exec

## show nve core-links

```
show nve core-links [ __readonly__ [ TABLE_core_link <if-name> [ { <if-state> } ] ] ]
```

### Syntax Description

|                 |   |
|-----------------|---|
| show            | Display NVE information                       |
| nve             | Configure NVE information                     |
| core-links      | Core-links                                    |
| __readonly__    | (Optional)                                    |
| TABLE_core_link | (Optional) xml schema for show nve core-links |
| <i>if-name</i>  | (Optional) core-link interface name           |
| <i>if-state</i> | (Optional) core-link interface oper state     |

### Command Mode

- /exec

# show nve ethernet-segment

```
show nve ethernet-segment [ summary ] [ { esi <esi-id> } ] [ __readonly__ [ TABLE_es { <esi> <if-name>
<es-state> [ { <po-state> <nve-if-name> <nve-state> <host-reach-mode> <active-vlans> <df-vlans>
<active-vnis> <cc-failed-vlans> <cc-timer-left> <num-es-mem> <local-ordinal> <df-timer-st> <config-status>
<df-list> <es-rt-added> <ead-rt-added> <ead-evi-rt-timer-age> } } ] ] ] ]
```

## Syntax Description

|                  |   |
|------------------|---|
| show             | Display NVE information                             |
| nve              | Configure NVE information                           |
| ethernet-segment | Ethernet-segment                                    |
| summary          | (Optional) Ethernet-segment summary                 |
| esi              | (Optional) ESI Value                                |
| esi-id           | (Optional) ESI ID                                   |
| __readonly__     | (Optional)  |
| TABLE_es         | (Optional) xml schema for show nve ethernet-segment |
| esi              | (Optional) ESI value                                |
| if-name          | (Optional) port-channel interface name              |
| es-state         | (Optional) Ethernet-segment oper state              |
| po-state         | (Optional) port-channel interface oper state        |
| nve-if-name      | (Optional) NVE interface name                       |
| nve-state        | (Optional) NVE oper state                           |
| host-reach-mode  | (Optional) host reach mode                          |
| active-vlans     | (Optional) Active vlans on ES                       |
| df-vlans         | (Optional) DF-vlans on ES                           |
| active-vnis      | (Optional) Active VNIs on ES                        |
| cc-failed-vlans  | (Optional) Vlans for which consistency check failed |
| cc-timer-left    | (Optional) vlan CC timer status                     |
| num-es-mem       | (Optional) number of es members                     |
| local-ordinal    | (Optional) local-ordinal                            |
| df-timer-st      | (Optional) df election start timer                  |

|                             |  |
|-----------------------------|--|
| <i>config-status</i>        | (Optional) config state                          |
| <i>df-list</i>              | (Optional) List of router-ips in DF list         |
| <i>es-rt-added</i>          | (Optional) ES route added to L2RIB               |
| <i>ead-rt-added</i>         | (Optional) EAD routes added to L2RIB             |
| <i>ead-evi-rt-timer-age</i> | (Optional) EAD/EVI route advertisement timer age |

**Command Mode**

- /exec

# show nve evi

show nve evi [ *\_\_readonly\_\_* *TABLE\_nve\_evi* [ *<evi>* *<sw-bd>* *<label-sr>* *<oper-state>* *<evi-state>* ] ]

## Syntax Description

|                      |                                    |
|----------------------|------------------------------------|
| show                 | Display NVE information            |
| nve                  | Configure NVE information          |
| evi                  | Ethernet Virtual Identifier        |
| <i>__readonly__</i>  | (Optional)                         |
| <i>TABLE_nve_evi</i> | (Optional) xml schema for nve evis |
| <i>evi</i>           | (Optional) EVI value               |
| <i>sw-bd</i>         | (Optional) VLAN information        |
| <i>label-sr</i>      | (Optional) SR Label                |
| <i>oper-state</i>    | (Optional) EVI up or down          |
| <i>evi-state</i>     | (Optional) EVI state               |

## Command Mode

- /exec

## show nve interface

```
show nve interface [ <nve-if> [ detail ] ] [ __readonly__ [ TABLE_nve_if { <if-name> <if-state> <encap-type>
<vpc-capability> <local-rmac> <host-reach-mode> <source-if> { <primary-ip> | <primary-ipv6> } [
<secondary-ip> | <secondary-ipv6> } ] [ { <anycast-if> } { <anycast-ip> | <anycast-ipv6> } ] [ { <src-if-state>
[ <anyc-if-state> ] <adv-vmac> <nve-flags> <nve-if-handle> <src-if-holddown-tm> <src-if-holdup-tm>
<src-if-holddown-left> <vpc-compat-check> <vip-rmac> [ <vip-rmac-ro> ] <sm-state> [
<es-delay-restore-time> <es-delay-restore-time-left> ] [ <multisite-convergence-time>
<multisite-convergence-time-left> ] [ <multisite-bgw-if> <multisite-bgw-if-ip> <multisite-bgw-if-admin-state>
<multisite-bgw-if-oper-state> <multisite-bgw-if-oper-state-down-reason> } } } ] ] ] ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Display NVE information                       |
| nve                    | Configure NVE information                     |
| interface              | Interface                                     |
| <i>nve-if</i>          | (Optional) NVE interface                      |
| detail                 | (Optional) Detailed information               |
| <u>__readonly__</u>    | (Optional)                                    |
| TABLE_nve_if           | (Optional) xml schema for show nve interfaces |
| <i>if-name</i>         | (Optional) interface name                     |
| <i>if-state</i>        | (Optional) interface oper state               |
| <i>encap-type</i>      | (Optional) encap-type                         |
| <i>vpc-capability</i>  | (Optional) vpc capability                     |
| <i>local-rmac</i>      | (Optional) local router mac                   |
| <i>host-reach-mode</i> | (Optional) host reach mode                    |
| <i>source-if</i>       | (Optional) source-interface                   |
| <i>primary-ip</i>      | (Optional) primary-ip                         |
| <i>secondary-ip</i>    | (Optional) secondary-ip                       |
| <i>anycast-if</i>      | (Optional) anycast-interface                  |
| <i>anycast-ip</i>      | (Optional) anycast-ip                         |
| <i>src-if-state</i>    | (Optional) source-interface state             |
| <i>anyc-if-state</i>   | (Optional) anycast-interface state            |
| <i>adv-vmac</i>        | (Optional) advertise virtual rmac             |

|  |  |
|--|--|
| <i>nve-flags</i>                               | (Optional) nve-flags                           |
| <i>nve-if-handle</i>                           | (Optional) interface handle                    |
| <i>src-if-holddown-tm</i>                      | (Optional) hold down time                      |
| <i>src-if-holdup-tm</i>                        | (Optional) hold up time                        |
| <i>src-if-holddown-left</i>                    | (Optional) hold down time left                 |
| <i>vpc-compat-check</i>                        | (Optional) vpc-compat-check                    |
| <i>vip-rmac</i>                                | (Optional) Generated VIP MAC                   |
| <i>vip-rmac-ro</i>                             | (Optional) Generated VIP MAC Re-origination    |
| <i>sm-state</i>                                | (Optional) sm state                            |
| <i>es-delay-restore-time</i>                   | (Optional) es delay restore time               |
| <i>es-delay-restore-time-left</i>              | (Optional) es delay restore time left          |
| <i>multisite-convergence-time</i>              | (Optional) multisite convergence time          |
| <i>multisite-convergence-time-left</i>         | (Optional) multisite convergence time left     |
| <i>multisite-bgw-if</i>                        | (Optional) multisite border gateway interface  |
| <i>multisite-bgw-if-ip</i>                     | (Optional) multisite if ip                     |
| <i>multisite-bgw-if-admin-state</i>            | (Optional) multisite if admin state            |
| <i>multisite-bgw-if-oper-state</i>             | (Optional) multisite if oper state             |
| <i>multisite-bgw-if-oper-state-down-reason</i> | (Optional) multisite if oper state down reason |

### Command Mode

- /exec



# show nve mpls

```
show nve mpls [ __readonly__ [ TABLE_nve_mpls { <source-if> { <primary-ip> | <primary-ipv6> } {
<secondary-ip> | <secondary-ipv6> } <sm-state> [ <down-reason> ] } ] ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Display NVE information                     |
| nve                 | Configure NVE information                   |
| mpls                | Segment routing                             |
| __readonly__        | (Optional)                                  |
| TABLE_nve_mpls      | (Optional) xml schema for sr nve parameters |
| <i>source-if</i>    | (Optional) source-interface                 |
| <i>primary-ip</i>   | (Optional) primary-ip                       |
| <i>secondary-ip</i> | (Optional) secondary-ip                     |
| <i>sm-state</i>     | (Optional) sm state                         |
| <i>down-reason</i>  | (Optional) down reason                      |

## Command Mode

- /exec

## show nve multisite dci-links

```
show nve multisite dci-links [ __readonly__ [ TABLE_multisite_dci_link <if-name> [ { <if-state> } ] ] ]
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Display NVE information                                |
| nve                      | Configure NVE information                              |
| multisite                | multisite  |
| dci-links                | dci-links  |
| __readonly__             | (Optional)   |
| TABLE_multisite_dci_link | (Optional) xml schema for show nve multisite dci-links |
| <i>if-name</i>           | (Optional) dci-link interface name                     |
| <i>if-state</i>          | (Optional) dci-link interface oper state               |

### Command Mode

- /exec

## show nve multisite fabric-links

```
show nve multisite fabric-links [ __readonly__ [ TABLE_multisite_fabric_link <if-name> [ { <if-state> } ] ] ]
```

### Syntax Description

|                             |   |
|-----------------------------|---|
| show                        | Display NVE information                                   |
| nve                         | Configure NVE information                                 |
| multisite                   | multisite   |
| fabric-links                | fabric-links  |
| __readonly__                | (Optional)  |
| TABLE_multisite_fabric_link | (Optional) xml schema for show nve multisite fabric-links |
| <i>if-name</i>              | (Optional) fabric-link interface name                     |
| <i>if-state</i>             | (Optional) fabric-link interface oper state               |

### Command Mode

- /exec

## show nve peers

```
show nve peers [ [ interface <nve-if> | peer-ip { <user-peer-ip> | <user-peer-ipv6> } | control-plane | data-plane
] [ detail ] ] [ control-plane-vni [ vni <vni-id> | peer-ip { <user-peer-ip> | <user-peer-ipv6> } ] ] [ controller
] [ __readonly__ TABLE_nve_peers [ [ <detail> ] [ <control-plane-vni> ] [ <if-name> ] { <peer-ip> |
<peer-ipv6> } [ <peer-state> ] [ <learn-type> ] [ <uptime> ] [ <router-mac> ] [ { <first-vni> <create-ts>
<config-vnis> <provision-state> <cp-vni> <vni-assignment-mode> <dci-fabric-location> [ <stale-timer> ] }
] [ { <vni> <learn-src> <vni-gw-mac> <peer-type> } ] ] ] ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Display NVE information                         |
| nve                      | Configure NVE information                       |
| peers                    | Show peers                                      |
| interface                | (Optional) Interface                            |
| <i>nve-if</i>            | (Optional) NVE interface                        |
| detail                   | (Optional) Detailed information                 |
| peer-ip                  | (Optional) Show a specific peer                 |
| <i>user-peer-ip</i>      | (Optional) Remote Peer IP address               |
| control-plane            | (Optional) Show peers learned via control plane |
| data-plane               | (Optional) Show peers learned via data plane    |
| control-plane-vni        | (Optional) Show details of control plane vnis   |
| vni                      | (Optional) VNI ID                               |
| <i>vni-id</i>            | (Optional) Virtual Network Identifier           |
| controller               | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED       |
| <i>__readonly__</i>      | (Optional)                                      |
| <i>detail</i>            | (Optional) detail                               |
| <i>control-plane-vni</i> | (Optional) control-plane-vni                    |
| TABLE_nve_peers          | (Optional) schema peer                          |
| <i>if-name</i>           | (Optional) if-name                              |
| <i>peer-ip</i>           | (Optional) peer-ip                              |
| <i>peer-state</i>        | (Optional) peer-state                           |
| <i>learn-type</i>        | (Optional) learn-type                           |

|                            |                                     |
|----------------------------|-------------------------------------|
| <i>uptime</i>              | (Optional) uptime                   |
| <i>router-mac</i>          | (Optional) router-mac               |
| <i>first-vni</i>           | (Optional) first-vni                |
| <i>create-ts</i>           | (Optional) create-timestamp         |
| <i>config-vnis</i>         | (Optional) config-vnis              |
| <i>provision-state</i>     | (Optional) provision-state          |
| <i>cp-vni</i>              | (Optional) cp-vni                   |
| <i>vni-assignment-mode</i> | (Optional) vni assignment mode      |
| <i>dci-fabric-location</i> | (Optional) dci-fabric-location      |
| <i>stale-timer</i>         | (Optional) stale-timer              |
| <i>vni</i>                 | (Optional) vni value                |
| <i>learn-src</i>           | (Optional) learn source             |
| <i>vni-gw-mac</i>          | (Optional) vni gateway mac          |
| <i>peer-type</i>           | (Optional) peer location wan/fabric |

**Command Mode**

- /exec

## show nve peers interface counters

```
show nve peers { <addr> | <addr-v6> } interface <nve-if> counters [ __readonly__ { <peer-ip> | <peer-ipv6>
} <tx_ucastpkts> <tx_ucastbytes> <tx_mcastpkts> <tx_mcastbytes> <rx_ucastpkts> <rx_ucastbytes>
<rx_mcastpkts> <rx_mcastbytes> ]
```

### Syntax Description

|                      |                           |
|----------------------|---------------------------|
| show                 | Display NVE information   |
| nve                  | Configure NVE information |
| peers                | NVE Peer                  |
| <i>addr</i>          | Remote Peer IP Address    |
| counters             | Counters                  |
| interface            | Interface                 |
| <i>nve-if</i>        | NVE interface             |
| <i>__readonly__</i>  | (Optional)                |
| <i>peer-ip</i>       | (Optional)                |
| <i>tx_ucastpkts</i>  | (Optional)                |
| <i>tx_ucastbytes</i> | (Optional)                |
| <i>tx_mcastpkts</i>  | (Optional)                |
| <i>tx_mcastbytes</i> | (Optional)                |
| <i>rx_ucastpkts</i>  | (Optional)                |
| <i>rx_ucastbytes</i> | (Optional)                |
| <i>rx_mcastpkts</i>  | (Optional)                |
| <i>rx_mcastbytes</i> | (Optional)                |

### Command Mode

- /exec

## show nve peers mpls

```
show nve peers mpls [ peer-ip { <user-peer-ip> | <user-peer-ipv6> } ] [ detail ] [ __readonly__
TABLE_nve_mpls_peers [ [ <detail> ] { <peer-ip> | <peer-ipv6> } [ <peer-state> ] [ <uptime> ] [ <create-ts>
] [ <provision-state> ] ] ]
```

### Syntax Description

|                        |                                   |
|------------------------|-----------------------------------|
| show                   | Display NVE information           |
| nve                    | Configure NVE information         |
| peers                  | Show peers                        |
| mpls                   | Segment routing peers             |
| detail                 | (Optional) Detailed information   |
| peer-ip                | (Optional) Show a specific peer   |
| <i>user-peer-ip</i>    | (Optional) Remote Peer IP address |
| <i>__readonly__</i>    | (Optional)                        |
| <i>detail</i>          | (Optional) detail                 |
| TABLE_nve_mpls_peers   | (Optional) schema peer            |
| <i>peer-ip</i>         | (Optional) peer-ip                |
| <i>peer-state</i>      | (Optional) peer-state             |
| <i>uptime</i>          | (Optional) uptime                 |
| <i>create-ts</i>       | (Optional) create-timestamp       |
| <i>provision-state</i> | (Optional) provision-state        |

### Command Mode

- /exec

## show nve peers vni interface counters

```
show nve peers { { <addr> | <addr-v6> } | all } vni { <vni-id> | all } interface <nve-if> counters [ __readonly__
TABLE_nve_peer_vni_counters { <peer-ip> | <peer-ipv6> } <vni> <tx_ucastpkts> <tx_ucastbytes>
<tx_mcastpkts> <tx_mcastbytes> <rx_ucastpkts> <rx_ucastbytes> <rx_mcastpkts> <rx_mcastbytes> ]
```

### Syntax Description

|                             |                                  |
|-----------------------------|----------------------------------|
| show                        | Display NVE information          |
| nve                         | Configure NVE information        |
| peers                       | NVE Peer                         |
| <i>addr</i>                 | Remote Peer IP Address           |
| all                         | Show counters for all peers/VNIs |
| vni                         | Virtual Network Identifier       |
| <i>vni-id</i>               | Virtual Network Identifier       |
| counters                    | Counters                         |
| interface                   | Interface                        |
| <i>nve-if</i>               | NVE interface                    |
| __readonly__                | (Optional)                       |
| TABLE_nve_peer_vni_counters | (Optional)                       |
| <i>peer-ip</i>              | (Optional)                       |
| <i>vni</i>                  | (Optional)                       |
| <i>tx_ucastpkts</i>         | (Optional)                       |
| <i>tx_ucastbytes</i>        | (Optional)                       |
| <i>tx_mcastpkts</i>         | (Optional)                       |
| <i>tx_mcastbytes</i>        | (Optional)                       |
| <i>rx_ucastpkts</i>         | (Optional)                       |
| <i>rx_ucastbytes</i>        | (Optional)                       |
| <i>rx_mcastpkts</i>         | (Optional)                       |
| <i>rx_mcastbytes</i>        | (Optional)                       |

### Command Mode

- /exec



## show nve replication-servers

```
show nve replication-servers [ __readonly__ [ TABLE_nve_replication_servers <if-name> [ { <server-ip>
<server-state> <server-ready> } ] ] ]
```

### Syntax Description

|                               |                                      |
|-------------------------------|--------------------------------------|
| show                          | Display NVE information              |
| nve                           | Configure NVE information            |
| replication-servers           | replication-servers                  |
| __readonly__                  | (Optional)                           |
| TABLE_nve_replication_servers | (Optional) replcation servers schema |
| <i>if-name</i>                | (Optional) if-name                   |
| <i>server-ip</i>              | (Optional) Server IP address         |
| <i>server-state</i>           | (Optional) Server reachability state |
| <i>server-ready</i>           | (Optional) Server ready state        |

### Command Mode

- /exec

## show nve vni

```
show nve vni [ { { interface <nve-if> | <vni-id> } [ detail ] } | control-plane | data-plane | summary | controller
] [ __readonly__ [ TABLE_nve_vni [ [ <detail> ] [ <if-name> <vni> <mcast> <vni-state> <mode> <type>
<flags> [ { <prvsn-state> <vlan-bd> <svi-state> <vpc-compat-check> } ] ] ] [ <summary> ] <cp-vni-count>
<cp-vni-up> <cp-vni-down> <dp-vni-count> <dp-vni-up> <dp-vni-down> ] ] ]
```

### Syntax Description

|                     |  |
|---------------------|--|
| show                | Display NVE information                    |
| nve                 | Configure NVE information                  |
| vni                 | Virtual Network Identifier                 |
| <i>vni-id</i>       | (Optional) Virtual Network Identifier      |
| interface           | (Optional) Interface                       |
| <i>nve-if</i>       | (Optional) NVE interface                   |
| detail              | (Optional) Detailed information            |
| control-plane       | (Optional) show vni learned via BGP        |
| data-plane          | (Optional) show vni learned via data plane |
| summary             | (Optional) show vni summary                |
| controller          | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED  |
| <i>__readonly__</i> | (Optional)                                 |
| TABLE_nve_vni       | (Optional) vni schema                      |
| <i>detail</i>       | (Optional) detail                          |
| <i>if-name</i>      | (Optional) if-name                         |
| <i>vni</i>          | (Optional) vni                             |
| <i>mcast</i>        | (Optional) mcast                           |
| <i>vni-state</i>    | (Optional) vni-state                       |
| <i>mode</i>         | (Optional) vni-mode                        |
| <i>type</i>         | (Optional) vni-type                        |
| <i>flags</i>        | (Optional) vni-flags                       |
| <i>prvsn-state</i>  | (Optional) provision-state                 |
| <i>vlan-bd</i>      | (Optional) vlan-bd                         |

|                         |                              |
|-------------------------|------------------------------|
| <i>svi-state</i>        | (Optional) svi-state         |
| <i>vpc-compat-check</i> | (Optional) vpc-compat-check  |
| <i>summary</i>          | (Optional) summary           |
| <i>cp-vni-count</i>     | (Optional) CP vni count      |
| <i>cp-vni-up</i>        | (Optional) CP vni up count   |
| <i>cp-vni-down</i>      | (Optional) CP vni down count |
| <i>dp-vni-count</i>     | (Optional) DP vni count      |
| <i>dp-vni-up</i>        | (Optional) DP vni up count   |
| <i>dp-vni-down</i>      | (Optional) DP vni down count |

**Command Mode**

- /exec

## show nve vni counters

```
show nve vni <vni-id> counters [ __readonly__ <vni> <tx_ucastpkts> <tx_ucastbytes> <tx_mcastpkts>
<tx_mcastbytes> <rx_ucastpkts> <rx_ucastbytes> <rx_mcastpkts> <rx_mcastbytes> ]
```

### Syntax Description

|                      |                            |
|----------------------|----------------------------|
| show                 | Display NVE information    |
| nve                  | Configure NVE information  |
| vni                  | Virtual Network Identifier |
| <i>vni-id</i>        | Virtual Network Identifier |
| counters             | Counters                   |
| <i>__readonly__</i>  | (Optional)                 |
| <i>vni</i>           | (Optional)                 |
| <i>tx_ucastpkts</i>  | (Optional)                 |
| <i>tx_ucastbytes</i> | (Optional)                 |
| <i>tx_mcastpkts</i>  | (Optional)                 |
| <i>tx_mcastbytes</i> | (Optional)                 |
| <i>rx_ucastpkts</i>  | (Optional)                 |
| <i>rx_ucastbytes</i> | (Optional)                 |
| <i>rx_mcastpkts</i>  | (Optional)                 |
| <i>rx_mcastbytes</i> | (Optional)                 |

### Command Mode

- /exec

# show nve vni ingress-replication

```
show nve vni ingress-replication [ { interface <nve-if> | <vni-id> } ] [ __readonly__ [
TABLE_nve_vni_ingr_repl <if-name> <vni> [ { { <repl-ip> | <repl-ipv6> } <source> <up-time> } ] + ] ]
```

## Syntax Description

|                         |                                       |
|-------------------------|---------------------------------------|
| show                    | Display NVE information               |
| nve                     | Configure NVE information             |
| vni                     | Virtual Network Identifier            |
| ingress-replication     | ingress-replication                   |
| <i>vni-id</i>           | (Optional) Virtual Network Identifier |
| interface               | (Optional) Interface                  |
| <i>nve-if</i>           | (Optional) NVE interface              |
| <i>__readonly__</i>     | (Optional)                            |
| TABLE_nve_vni_ingr_repl | (Optional) vni ingress repl schema    |
| <i>if-name</i>          | (Optional) if-name                    |
| <i>vni</i>              | (Optional) vni                        |
| <i>repl-ip</i>          | (Optional) Replication List           |
| <i>source</i>           | (Optional) Source                     |
| <i>up-time</i>          | (Optional) Up Time                    |

## Command Mode

- /exec

## show nve vrf

```
show nve vrf [ vrf-name ] [ __readonly__ [ TABLE_nve_vrf <vrf-name> <vni> <if-name> <gateway-mac>
[ { <ipv4-tblid> <ipv6-tblid> <vni-sw-bd> <flags> } ] ] ]
```

### Syntax Description

|                     |                           |
|---------------------|---------------------------|
| show                | Display NVE information   |
| nve                 | Configure NVE information |
| vrf                 | VRF name                  |
| <i>vrf-name</i>     | (Optional) vrf name       |
| <i>__readonly__</i> | (Optional)                |
| TABLE_nve_vrf       | (Optional) vrf schema     |
| <i>vrf-name</i>     | (Optional) vrf-name       |
| <i>vni</i>          | (Optional) vni            |
| <i>if-name</i>      | (Optional) if-name        |
| <i>gateway-mac</i>  | (Optional) gateway-mac    |
| <i>ipv4-tblid</i>   | (Optional) ipv4-table-id  |
| <i>ipv6-tblid</i>   | (Optional) ipv6-table-id  |
| <i>vni-sw-bd</i>    | (Optional) vni-sw-bd      |
| <i>flags</i>        | (Optional) flags          |

### Command Mode

- /exec

# show nve vxlan-params

show nve vxlan-params [ \_\_readonly\_\_ <vxlan-port> ]

## Syntax Description

|                   |                           |
|-------------------|---------------------------|
| show              | Display NVE information   |
| nve               | Configure NVE information |
| vxlan-params      | VxLAN Parameters          |
| __readonly__      | (Optional)                |
| <i>vxlan-port</i> | (Optional) vxlan-params   |

## Command Mode

- /exec

# show nxapi-server logs

show nxapi-server logs

## Syntax Description

|              |                                 |
|--------------|---------------------------------|
| show         | Show running system information |
| nxapi-server | Show NX-API Server              |
| logs         | Show NX-API Server logs         |

## Command Mode

- /exec



# show nxapi

```
show nxapi [ __readonly__ <nxapi_status> [ configuration_error <c_error> ] [ <http_port> ] [ <https_port>
<ssl_issuer> <ssl_enddate> ] ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                       |
| nxapi               | Show nxapi status                                     |
| __readonly__        | (Optional)  |
| <i>nxapi_status</i> | (Optional) NX-API enabled status                      |
| configuration_error | (Optional) config syntax error                        |
| <i>c_error</i>      | (Optional) config syntax error                        |
| <i>http_port</i>    | (Optional) Configured HTTP port                       |
| <i>https_port</i>   | (Optional) Configured HTTPS port                      |
| <i>ssl_issuer</i>   | (Optional) Issuer information for current certificate |
| <i>ssl_enddate</i>  | (Optional) Expiration date of current certificate     |

## Command Mode

- /exec





## O Show Commands

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- [show otv](#), on page 1835

# show object-group

```
show object-group [ <name> ] [ __readonly__ TABLE_ogroup <group_type> <group_name> [ TABLE_seqno
<seqno> { <_port_op> <port0_num> | <_port_range> <port1_num> <port2_num> | <hostaddr> | <net_ip> |
<mask_ip_addr> <mask_ip_mask> | <hostip6> | <net_ipv6> | <mask_ipv6_addr> <mask_ipv6_mask> } ]
]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                           |
| object-group        | Show configured ACL object groups                         |
| <i>name</i>         | (Optional) object-group name                              |
| <i>__readonly__</i> | (Optional)  |
| <i>group_type</i>   | (Optional) Object group type                              |
| <i>group_name</i>   | (Optional) Object group name                              |
| <i>seqno</i>        | (Optional) Sequence number                                |
| TABLE_ogroup        | (Optional)  |
| TABLE_seqno         | (Optional)  |
| <i>_port_op</i>     | (Optional) Port operator                                  |
| <i>_port_range</i>  | (Optional) Port range                                     |
| <i>port0_num</i>    | (Optional) Port number                                    |
| <i>port1_num</i>    | (Optional) Port number                                    |
| <i>port2_num</i>    | (Optional) Port number                                    |
| <i>net_ip</i>       | (Optional) A.B.C.D Network address of object-group member |
| <i>hostaddr</i>     | (Optional) A.B.C.D Host address                           |
| <i>mask_ip_addr</i> | (Optional) A.B.C.D IP address                             |
| <i>mask_ip_mask</i> | (Optional) A.B.C.D IP address mask                        |

## Command Mode

- /exec

# show openflow hardware capabilities

show openflow hardware capabilities [ pipeline <pipeline-id> ]

## Syntax Description

|                    |                                 |
|--------------------|---------------------------------|
| show               | Show running system information |
| openflow           | Show OpenFlow information       |
| hardware           | Hardware                        |
| capabilities       | Capabilities                    |
| pipeline           | (Optional) Pipeline id          |
| <i>pipeline-id</i> | (Optional) Pipeline id          |

## Command Mode

- /exec

# show openflow switch

```
show openflow switch <switch-id> [ { controllers [ stats | { role { master | slave | equal } } ] | ports } ] [
__readonly__ <cli_output> <ctrlv4> <ctrlport> ]
```

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| openflow            | Show OpenFlow information       |
| switch              | Logical switch id               |
| <i>switch-id</i>    | Logical switch-id to enter      |
| controllers         | (Optional) Controllers          |
| stats               | (Optional) Stats                |
| ports               | (Optional) Ports                |
| role                | (Optional) Controller role      |
| master              | (Optional) Master               |
| slave               | (Optional) Slave                |
| equal               | (Optional) Equal                |
| <i>__readonly__</i> | (Optional)                      |
| <i>cli_output</i>   | (Optional)                      |
| <i>ctrlv4</i>       | (Optional)                      |
| <i>ctrlport</i>     | (Optional)                      |

## Command Mode

- /exec

# show openflow switch flows

```
show openflow switch <switch-id> flows [ [ table-id <table-id> ] [ [ pending | pending-del | controller |
configured | default | fixed ] [ brief | list | summary ] ] | stats | compare statistics { snapshot | report [ brief |
list ] } ]
```

## Syntax Description

|                  |  |
|------------------|--|
| show             | Show running system information                                    |
| openflow         | Show OpenFlow information  |
| switch           | Logical switch id  |
| <i>switch-id</i> | Logical switch-id to enter   |
| flows            | Flows  |
| brief            | (Optional) Brief   |
| summary          | (Optional) Summary   |
| pending          | (Optional) Pending   |
| pending-del      | (Optional) Pending delete  |
| controller       | (Optional) Controller  |
| configured       | (Optional) Configured  |
| default          | (Optional) Default   |
| fixed            | (Optional) Fixed   |
| stats            | (Optional) Stats   |
| compare          | (Optional) Compare Flow Statistics                                 |
| statistics       | (Optional) Flow Statistics   |
| snapshot         | (Optional) Create a reference point to compare flow stats counters |
| report           | (Optional) Dump difference of flow stats counters from snapshot    |
| table-id         | (Optional) Table-id for the pipeline                               |
| list             | (Optional) List  |
| <i>table-id</i>  | (Optional) Table ID  |

## Command Mode

- /exec

## show ospfv3

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag><instance_number><cname><rid><stateful_ha><gr_ha>[[<gr_planned_only>]][<gr_grace_period>
][<gr_state>]][<gr_last_status>]][<gr_helper_mode>]<support_tos0_only><support_opaque_lsa>[
<low_mem_cond>]<is_abr><is_asbr>[<max_lsa_non_self_number>][<max_lsa_state>][
<max_lsa_warning_only>][<max_lsa_current_non_self_lsa_number>][<max_lsa_threshold_pct>][
<max_lsa_ignore_time>][<max_lsa_reset_time>][<max_lsa_ignore_count>][
<max_lsa_current_ignore_count>][<max_lsa_ignore_time_left>][<max_lsa_reset_time_left>][
<max_lsa_permanent_ignore>][ { TABLE_redist <proto> [ <max_lsas> ] [ <warning> ] [ <threshold> ] [
<current_count> ] } ] <admin_dist> <ref_bw> <spf_start_time> <spf_hold_time> <spf_max_time>
<lsa_start_time> <lsa_hold_time> <lsa_max_time> <min_lsa_arr_time> <lsa_aging_pace> <spf_max_paths>
<max_metric_adver> [ [ <max_metric_time_left> ] [ <max_metric_wait_bgp> ] [ <max_metric_timeout> ]
[ <max_metric_always> ] [ <max_metric_sum_lsa> ] [ <max_metric_ext_lsa> ] ] <asext_lsa_cnt>
<asext_lsa_crc> <area_total> <area_normal> <area_stub> <area_nssa> <act_area_total> <act_area_normal>
<act_area_stub> <act_area_nssa> [ <name_lookup> ] <no_discard_rt_ext> <no_discard_rt_int> [ <passive_dflt>
] [ <bfd_enabled> ] [ <ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] [ { TABLE_area <aname>
[ <backbone_active> ] [ <active> ] <age> <total_intf> <act_intf> <passive_intf> <loopback_intf> [
<gr_nbr_cnt> ] <stub> [ <stub_def_cost> ] <nssa> [ <no_redist> ] [ <nssa_trans> ] <no_summary> [
<ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] <spf_runs> <last_spf_run_time> [
TABLE_range <addr> <masklen> <state> <nets> <advertise> [ <cost> ] ] [ <filter_in> ] [ <filter_out> ]
<lsa_cnt> <lsa_crc> } ] ]
```

### Syntax Description

|                 |   |
|-----------------|---|
| show            | Show running system information             |
| ipv6            | (Optional) Display IPv6 information         |
| ospfv3          | Display OSPFv3 status and configuration     |
| tag             | (Optional) Process tag                      |
| vrf             | (Optional) Display per-VRF information      |
| vrf-name        | (Optional) VRF name                         |
| vrf-known-name  | (Optional) Known VRF name                   |
| all             | (Optional) Display information for all VRFs |
| __readonly__    | (Optional)                                  |
| TABLE_ctx       | (Optional)                                  |
| ptag            | (Optional)                                  |
| instance_number | (Optional)                                  |
| cname           | (Optional)                                  |
| rid             | (Optional)                                  |



|  |            |
|--|------------|
| <i>stateful_ha</i>                         | (Optional) |
| <i>gr_ha</i>                               | (Optional) |
| <i>gr_planned_only</i>                     | (Optional) |
| <i>gr_grace_period</i>                     | (Optional) |
| <i>gr_state</i>                            | (Optional) |
| <i>gr_last_status</i>                      | (Optional) |
| <i>gr_helper_mode</i>                      | (Optional) |
| <i>support_tos0_only</i>                   | (Optional) |
| <i>support_opaque_lsa</i>                  | (Optional) |
| <i>low_mem_cond</i>                        | (Optional) |
| <i>is_abr</i>                              | (Optional) |
| <i>is_asbr</i>                             | (Optional) |
| <i>max_lsa_non_self_number</i>             | (Optional) |
| <i>max_lsa_state</i>                       | (Optional) |
| <i>max_lsa_warning_only</i>                | (Optional) |
| <i>max_lsa_current_non_self_lsa_number</i> | (Optional) |
| <i>max_lsa_threshold_pct</i>               | (Optional) |
| <i>max_lsa_ignore_time</i>                 | (Optional) |
| <i>max_lsa_reset_time</i>                  | (Optional) |
| <i>max_lsa_ignore_count</i>                | (Optional) |
| <i>max_lsa_current_ignore_count</i>        | (Optional) |
| <i>max_lsa_ignore_time_left</i>            | (Optional) |
| <i>max_lsa_reset_time_left</i>             | (Optional) |
| <i>max_lsa_permanent_ignore</i>            | (Optional) |
| TABLE_redist                               | (Optional) |
| <i>proto</i>                               | (Optional) |
| <i>max_lsas</i>                            | (Optional) |
| <i>warning</i>                             | (Optional) |
| <i>threshold</i>                           | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>current_count</i>        | (Optional) |
| <i>admin_dist</i>           | (Optional) |
| <i>ref_bw</i>               | (Optional) |
| <i>spf_start_time</i>       | (Optional) |
| <i>spf_hold_time</i>        | (Optional) |
| <i>spf_max_time</i>         | (Optional) |
| <i>lsa_start_time</i>       | (Optional) |
| <i>lsa_hold_time</i>        | (Optional) |
| <i>lsa_max_time</i>         | (Optional) |
| <i>min_lsa_arr_time</i>     | (Optional) |
| <i>lsa_aging_pace</i>       | (Optional) |
| <i>spf_max_paths</i>        | (Optional) |
| <i>max_metric_adver</i>     | (Optional) |
| <i>max_metric_time_left</i> | (Optional) |
| <i>max_metric_wait_bgp</i>  | (Optional) |
| <i>max_metric_timeout</i>   | (Optional) |
| <i>max_metric_always</i>    | (Optional) |
| <i>max_metric_sum_lsa</i>   | (Optional) |
| <i>max_metric_ext_lsa</i>   | (Optional) |
| <i>asext_lsa_cnt</i>        | (Optional) |
| <i>asext_lsa_crc</i>        | (Optional) |
| <i>area_total</i>           | (Optional) |
| <i>area_normal</i>          | (Optional) |
| <i>area_stub</i>            | (Optional) |
| <i>area_nssa</i>            | (Optional) |
| <i>act_area_total</i>       | (Optional) |
| <i>act_area_normal</i>      | (Optional) |
| <i>act_area_stub</i>        | (Optional) |
| <i>act_area_nssa</i>        | (Optional) |

|                           |                                    |
|---------------------------|------------------------------------|
| <i>name_lookup</i>        | (Optional)                         |
| <i>no_discard_rt_ext</i>  | (Optional)                         |
| <i>no_discard_rt_int</i>  | (Optional)                         |
| <i>passive_dflt</i>       | (Optional)                         |
| <i>bfd_enabled</i>        | (Optional)                         |
| <i>ipsec_sa_type</i>      | (Optional) IPsec SA Type           |
| <i>ipsec_sa_algorithm</i> | (Optional) IPsec SA Algorithm name |
| <i>ipsec_sa_spi</i>       | (Optional) IPsec SA SPI Value      |
| TABLE_area                | (Optional)                         |
| <i>aname</i>              | (Optional)                         |
| <i>backbone_active</i>    | (Optional)                         |
| <i>active</i>             | (Optional)                         |
| <i>age</i>                | (Optional)                         |
| <i>total_intf</i>         | (Optional)                         |
| <i>act_intf</i>           | (Optional)                         |
| <i>passive_intf</i>       | (Optional)                         |
| <i>loopback_intf</i>      | (Optional)                         |
| <i>gr_nbr_cnt</i>         | (Optional)                         |
| <i>stub</i>               | (Optional)                         |
| <i>stub_def_cost</i>      | (Optional)                         |
| <i>nssa</i>               | (Optional)                         |
| <i>no_redist</i>          | (Optional)                         |
| <i>nssa_trans</i>         | (Optional)                         |
| <i>no_summary</i>         | (Optional)                         |
| <i>ipsec_sa_type</i>      | (Optional) IPsec SA Type           |
| <i>ipsec_sa_algorithm</i> | (Optional) IPsec SA Algorithm name |
| <i>ipsec_sa_spi</i>       | (Optional) IPsec SA SPI Value      |
| <i>spf_runs</i>           | (Optional)                         |
| <i>last_spf_run_time</i>  | (Optional)                         |

|                   |            |
|-------------------|------------|
| TABLE_range       | (Optional) |
| <i>masklen</i>    | (Optional) |
| <i>state</i>      | (Optional) |
| <i>nets</i>       | (Optional) |
| <i>advertise</i>  | (Optional) |
| <i>cost</i>       | (Optional) |
| <i>filter_in</i>  | (Optional) |
| <i>filter_out</i> | (Optional) |
| <i>lsa_cnt</i>    | (Optional) |
| <i>lsa_crc</i>    | (Optional) |

**Command Mode**

- /exec

## show ospfv3 border-routers

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] border-routers [ all_routes ] [
vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_br
<type> <addr> <cost> <asbr> <abr> <area> <spf_inst> [ <vlink_unresolved> ] [ TABLE_br_ubest_nh [
<ubest_nh_addr> ] [ <ubest_nh_intf> ] ] [ TABLE_br_mbest_nh [ <mbest_nh_addr> ] [ <mbest_nh_intf> ]
] ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information             |
| ipv6                    | (Optional) Display IPv6 information         |
| ospfv3                  | Display OSPFv3 status and configuration     |
| <i>tag</i>              | (Optional) Process tag                      |
| vrf                     | (Optional) Display per-VRF information      |
| <i>vrf-name</i>         | (Optional) VRF name                         |
| <i>vrf-known-name</i>   | (Optional) Known VRF name                   |
| all                     | (Optional) Display information for all VRFs |
| border-routers          | Border routers                              |
| all_routes              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| <i>__readonly__</i>     | (Optional)                                  |
| TABLE_ctx               | (Optional)                                  |
| <i>ptag</i>             | (Optional)                                  |
| <i>cname</i>            | (Optional)                                  |
| TABLE_br                | (Optional)                                  |
| <i>type</i>             | (Optional)                                  |
| <i>addr</i>             | (Optional)                                  |
| <i>cost</i>             | (Optional)                                  |
| <i>asbr</i>             | (Optional)                                  |
| <i>abr</i>              | (Optional)                                  |
| <i>area</i>             | (Optional)                                  |
| <i>spf_inst</i>         | (Optional)                                  |
| <i>vlink_unresolved</i> | (Optional)                                  |

|                      |            |
|----------------------|------------|
| TABLE_br_ubest_nh    | (Optional) |
| <i>ubest_nh_intf</i> | (Optional) |
| TABLE_br_mbest_nh    | (Optional) |
| <i>mbest_nh_intf</i> | (Optional) |

**Command Mode**

- /exec

## show ospfv3 database

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database [ [ [ router | network
| intra-area-prefix | inter-area { irouter | iprefix } | nssa-external | area-unknown | [ [ { link | link-unknown |
grace } [ <interface> ] ] ] ] [ area <area-id-ip> ] ] | external [ tag <tag_val> ] | as-unknown [ <lsid> ] [
self-originated | adv-router <adv-id> | adv-router-name <adv-name> ] ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ TABLE_ctx <rid> <ptag> <cname> [ TABLE_db3_lsa [ <name> ] [ <area> ] [ <id>
] [ <advrtr> ] [ <age> ] [ <seqno> ] [ <corrupt> ] [ <rtr_num_links> ] [ <net_num_rtr> ] [ <prefix> ] [
<inter_rid> ] [ <link_if> ] [ <intra_ref_type> ] [ <intra_ref_lsid> ] ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ipv6                  | (Optional) Display IPv6 information         |
| ospfv3                | Display OSPFv3 status and configuration     |
| <i>tag</i>            | (Optional) Process tag                      |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| database              | Link-state Database Summary                 |
| router                | (Optional) Display router LSAs              |
| network               | (Optional) Display network LSAs             |
| inter-area            | (Optional) Display inter-area LSAs          |
| iprefix               | (Optional) Display Inter-Area-Prefix LSAs   |
| irouter               | (Optional) Display Inter-Area-Router LSAs   |
| nssa-external         | (Optional) Display NSSA-external LSAs       |
| area-unknown          | (Optional) Display area-scope unknown LSAs  |
| external              | (Optional) Display AS-external LSAs         |
| as-unknown            | (Optional) Display as-scope unknown LSAs    |
| grace                 | (Optional) Display Grace LSAs               |
| link                  | (Optional) Display Link LSAs                |
| link-unknown          | (Optional) Display link-scope unknown LSAs  |
| <i>interface</i>      | (Optional) OSPF enabled interface           |

|                          |  |
|--------------------------|--|
| <i>intra-area-prefix</i> | (Optional) Display Intra-Area-Prefix LSAs              |
| <i>self-originated</i>   | (Optional) Display only self-originated LSAs           |
| <i>lsid</i>              | (Optional) Restrict display by link state ID           |
| <i>adv-router</i>        | (Optional) Restrict display by Advertising router      |
| <i>advid</i>             | (Optional) Advertising router ID                       |
| <i>adv-router-name</i>   | (Optional) Restrict display by Advertising router name |
| <i>adv-name</i>          | (Optional) DNS Name of the Advertising router          |
| <i>area</i>              | (Optional) Display only LSA's in this area             |
| <i>area-id-ip</i>        | (Optional) Area Id as an integer or ip address         |
| <i>tag</i>               | (Optional) Restrict display by tag                     |
| <i>tag_val</i>           | (Optional) 32-bit tag value                            |
| <i>__readonly__</i>      | (Optional)   |
| <i>TABLE_ctx</i>         | (Optional)   |
| <i>rid</i>               | (Optional)   |
| <i>ptag</i>              | (Optional)   |
| <i>cname</i>             | (Optional)   |
| <i>TABLE_db3_lsa</i>     | (Optional)   |
| <i>name</i>              | (Optional)   |
| <i>area</i>              | (Optional)   |
| <i>id</i>                | (Optional)   |
| <i>advrtr</i>            | (Optional)   |
| <i>age</i>               | (Optional)   |
| <i>seqno</i>             | (Optional)   |
| <i>corrupt</i>           | (Optional)   |
| <i>rtr_num_links</i>     | (Optional)   |
| <i>net_num_rtr</i>       | (Optional)   |
| <i>inter_rid</i>         | (Optional)   |
| <i>link_if</i>           | (Optional)   |
| <i>intra_ref_type</i>    | (Optional)   |



|                       |            |
|-----------------------|------------|
| <i>intra_ref_lsid</i> | (Optional) |
|-----------------------|------------|

**Command Mode**

- /exec

## show ospfv3 database database-summary

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database database-summary
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <rid> <ptag> <cname> [
TABLE_dbsum [ TABLE_dbsum_area <area> [ TABLE_dbsum_area_lsa <area_lsa_name> <area_lsa_count>
] <area_lsa_total> ] [ TABLE_dbsum_all [ TABLE_dbsum_lsa_all <lsa_name> <lsa_count> ]
<non_self_lsa_total> <lsa_total> ] ] ]
```

### Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information             |
| ipv6                 | (Optional) Display IPv6 information         |
| ospfv3               | Display OSPFv3 status and configuration     |
| tag                  | (Optional) Process tag                      |
| vrf                  | (Optional) Display per-VRF information      |
| vrf-name             | (Optional) VRF name                         |
| vrf-known-name       | (Optional) Known VRF name                   |
| all                  | (Optional) Display information for all VRFs |
| database             | Link-state Database Summary                 |
| database-summary     | Summary of database                         |
| __readonly__         | (Optional)                                  |
| TABLE_ctx            | (Optional)                                  |
| rid                  | (Optional)                                  |
| ptag                 | (Optional)                                  |
| cname                | (Optional)                                  |
| TABLE_dbsum          | (Optional)                                  |
| TABLE_dbsum_area     | (Optional)                                  |
| area                 | (Optional)                                  |
| TABLE_dbsum_area_lsa | (Optional)                                  |
| area_lsa_name        | (Optional)                                  |
| area_lsa_count       | (Optional)                                  |
| area_lsa_total       | (Optional)                                  |
| TABLE_dbsum_all      | (Optional)                                  |

|                           |            |
|---------------------------|------------|
| TABLE_dbsum_lsa_all       | (Optional) |
| <i>lsa_name</i>           | (Optional) |
| <i>lsa_count</i>          | (Optional) |
| <i>non_self_lsa_total</i> | (Optional) |
| <i>lsa_total</i>          | (Optional) |

**Command Mode**

- /exec

## show ospfv3 database detail

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database [ [ [ router | network
| intra-area-prefix | inter-area { irouter | iprefix } | nssa-external | area-unknown | [ [ { link | link-unknown |
grace } [ <interface> ] ] ] ] area <area-id-ip> ] | external [ tag <tag_val> ] | as-unknown [ <lsid> ] [
self-originated | adv-router <adv-id> | adv-router-name <adv-name> ] detail [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <rid> <ptag> <cname> [ TABLE_db3_lsa [ <name>
] [ <area> ] [ TABLE_lsd <age> <maxage> <wrapping> <dummy> <flush_pending> <type> [ <intf> ] <id>
<advtr> <seqno> <cksum> <len> [ <corrupt> ] [ <rtr_abr> ] [ <rtr_asbr> ] [ <rtr_translate> ] [ <rtr_vlink_end>
] [ <rtr_options> ] [ <rtr_num_links> ] [ TABLE_rlsa [ <rtr_link_type> ] [ <rtr_link_metric> ] [ <rtr_link_ifid>
] [ <rtr_link_nbr_ifid> ] [ <rtr_link_nbr_rid> ] ] [ <net_options> ] [ TABLE_nlsa [ <net_rtr> ] ] [ <ia_prefix>
] [ <ia_prefix_options> ] [ <ia_prefix_metric> ] [ <ia_rtr_options> ] [ <ia_rtr_metric> ] [ <ia_rtr_rid> ] [
<asext_prefix> ] [ <asext_options> ] [ <asext_metric_type2> ] [ <asext_metric> ] [ <asext_fwd_addr> ] [
<asext_tag> ] [ <asext_ref_lstype> ] [ <asext_ref_lsid> ] [ <link_priority> ] [ <link_options> ] [ <link_laddr>
] [ <link_num_prefix> ] [ TABLE_linklsa [ <link_prefix> ] [ <link_prefix_options> ] ] [ <intra_num_prefix>
] [ <intra_ref_lstype> ] [ <intra_ref_lsid> ] [ <intra_ref_advtr> ] [ TABLE_iaplsa [ <intra_prefix> ] [
<intra_prefix_options> ] [ <intra_prefix_metric> ] [ <corrupted_length> ] ] [ <tlv_type> ] [ <tlv_len> ] [
<tlv_data> ] [ <tlv_unknown> ] [ <gr_interval> ] [ <gr_reason> ] [ <unknown> ] [ <data_len> ] [ <data> ] ]
] ]
```

### Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information             |
| ipv6           | (Optional) Display IPv6 information         |
| ospfv3         | Display OSPFv3 status and configuration     |
| tag            | (Optional) Process tag                      |
| vrf            | (Optional) Display per-VRF information      |
| vrf-name       | (Optional) VRF name                         |
| vrf-known-name | (Optional) Known VRF name                   |
| all            | (Optional) Display information for all VRFs |
| database       | Link-state Database Summary                 |
| router         | (Optional) Display router LSAs              |
| network        | (Optional) Display network LSAs             |
| inter-area     | (Optional) Display inter-area LSAs          |
| iprefix        | (Optional) Display Inter-Area-Prefix LSAs   |
| irouter        | (Optional) Display Inter-Area-Router LSAs   |
| nssa-external  | (Optional) Display NSSA-external LSAs       |
| area-unknown   | (Optional) Display area-scope unknown LSAs  |

|                   |  |
|-------------------|--|
| external          | (Optional) Display AS-external LSAs                    |
| as-unknown        | (Optional) Display as-scope unknown LSAs               |
| grace             | (Optional) Display Grace LSAs                          |
| link              | (Optional) Display Link LSAs                           |
| link-unknown      | (Optional) Display link-scope unknown LSAs             |
| <i>interface</i>  | (Optional) OSPF enabled interface                      |
| intra-area-prefix | (Optional) Display Intra-Area-Prefix LSAs              |
| self-originated   | (Optional) Display only self-originated LSAs           |
| <i>lsid</i>       | (Optional) Restrict display by link state ID           |
| adv-router        | (Optional) Restrict display by Advertising router      |
| <i>advid</i>      | (Optional) Advertising router ID                       |
| adv-router-name   | (Optional) Restrict display by Advertising router name |
| <i>adv-name</i>   | (Optional) DNS Name of the Advertising router          |
| area              | (Optional) Display only LSA's in this area             |
| <i>area-id-ip</i> | (Optional) Area Id as an integer or ip address         |
| tag               | (Optional) Restrict display by tag                     |
| <i>tag_val</i>    | (Optional) 32-bit tag value                            |
| detail            | Display LSA in detail                                  |
| __readonly__      | (Optional)   |
| TABLE_ctx         | (Optional)   |
| <i>rid</i>        | (Optional)   |
| <i>ptag</i>       | (Optional)   |
| <i>cname</i>      | (Optional)   |
| TABLE_db3_lsa     | (Optional)   |
| <i>name</i>       | (Optional)   |
| <i>area</i>       | (Optional)   |
| TABLE_lsdb        | (Optional)   |
| <i>age</i>        | (Optional)   |
| <i>maxage</i>     | (Optional)   |

|                          |            |
|--------------------------|------------|
| <i>wrapping</i>          | (Optional) |
| <i>dummy</i>             | (Optional) |
| <i>flush_pending</i>     | (Optional) |
| <i>type</i>              | (Optional) |
| <i>intf</i>              | (Optional) |
| <i>id</i>                | (Optional) |
| <i>advrtr</i>            | (Optional) |
| <i>seqno</i>             | (Optional) |
| <i>cksum</i>             | (Optional) |
| <i>len</i>               | (Optional) |
| <i>corrupt</i>           | (Optional) |
| <i>rtr_abr</i>           | (Optional) |
| <i>rtr_asbr</i>          | (Optional) |
| <i>rtr_translate</i>     | (Optional) |
| <i>rtr_vlink_end</i>     | (Optional) |
| <i>rtr_options</i>       | (Optional) |
| <i>rtr_num_links</i>     | (Optional) |
| TABLE_rlsa               | (Optional) |
| <i>rtr_link_type</i>     | (Optional) |
| <i>rtr_link_metric</i>   | (Optional) |
| <i>rtr_link_ifid</i>     | (Optional) |
| <i>rtr_link_nbr_ifid</i> | (Optional) |
| <i>rtr_link_nbr_rid</i>  | (Optional) |
| <i>net_options</i>       | (Optional) |
| TABLE_nlsa               | (Optional) |
| <i>net_rtr</i>           | (Optional) |
| <i>ia_prefix_options</i> | (Optional) |
| <i>ia_prefix_metric</i>  | (Optional) |
| <i>ia_rtr_options</i>    | (Optional) |

|                             |            |
|-----------------------------|------------|
| <i>ia_rtr_metric</i>        | (Optional) |
| <i>ia_rtr_rid</i>           | (Optional) |
| <i>asext_options</i>        | (Optional) |
| <i>asext_metric_type2</i>   | (Optional) |
| <i>asext_metric</i>         | (Optional) |
| <i>asext_tag</i>            | (Optional) |
| <i>asext_ref_lstype</i>     | (Optional) |
| <i>asext_ref_lsid</i>       | (Optional) |
| <i>link_priority</i>        | (Optional) |
| <i>link_options</i>         | (Optional) |
| <i>link_num_prefix</i>      | (Optional) |
| TABLE_linklsa               | (Optional) |
| <i>link_prefix_options</i>  | (Optional) |
| <i>intra_num_prefix</i>     | (Optional) |
| <i>intra_ref_lstype</i>     | (Optional) |
| <i>intra_ref_lsid</i>       | (Optional) |
| <i>intra_ref_advrtr</i>     | (Optional) |
| TABLE_iaplsa                | (Optional) |
| <i>intra_prefix_options</i> | (Optional) |
| <i>intra_prefix_metric</i>  | (Optional) |
| <i>corrupted_length</i>     | (Optional) |
| <i>tlv_type</i>             | (Optional) |
| <i>tlv_len</i>              | (Optional) |
| <i>tlv_data</i>             | (Optional) |
| <i>tlv_unknown</i>          | (Optional) |
| <i>gr_interval</i>          | (Optional) |
| <i>gr_reason</i>            | (Optional) |
| <i>unknown</i>              | (Optional) |
| <i>data_len</i>             | (Optional) |

|             |            |
|-------------|------------|
| <i>data</i> | (Optional) |
|-------------|------------|

**Command Mode**

- /exec



## show ospfv3 interface

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] interface [ <interface> | vrf {
<vrf-name> | <vrf-known-name> | all } ] [ private ] [ __readonly__ TABLE_ctx <ptag> <cname> [ TABLE_intf
<ifname> <admin_status> <proto_status> <addr> [ <masklen> ] [ <inst_id> ] <area> [ <if_cfg> ] <state_str>
<type_str> <cost> [ <ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] [ <bfd_enabled> ] <index>
[ <passive> ] [ <mpls> ] [ <transmit_delay> ] [ <if_priority> ] [ <dr_rid> ] [ <dr_addr> ] [ <bdr_rid> ] [
<bdr_addr> ] [ <nbr_total> ] [ <nbr_flood> ] [ <nbr_adj> ] [ <gr_nbr> ] [ <hello_interval> ] [ <dead_interval>
] [ <wait_interval> ] [ <rxmt_interval> ] [ <hello_timer> ] [ <wait_timer> ] [ <lsu_timer> ] [ <lsack_timer>
] [ <link_lsa_cnt> ] [ <link_lsa_crc> ] [ <multi_area_cnt> ] [ <multi_area_adj> ] ] ]
```

### Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information             |
| ipv6           | (Optional) Display IPv6 information         |
| ospfv3         | Display OSPFv3 status and configuration     |
| tag            | (Optional) Process tag                      |
| vrf            | (Optional) Display per-VRF information      |
| vrf-name       | (Optional) VRF name                         |
| vrf-known-name | (Optional) Known VRF name                   |
| all            | (Optional) Display information for all VRFs |
| interface      | OSPF enabled interface                      |
| interface      | (Optional) OSPF enabled interface           |
| private        | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| __readonly__   | (Optional)                                  |
| TABLE_ctx      | (Optional)                                  |
| ptag           | (Optional)                                  |
| cname          | (Optional)                                  |
| TABLE_intf     | (Optional)                                  |
| ifname         | (Optional)                                  |
| admin_status   | (Optional)                                  |
| proto_status   | (Optional)                                  |
| masklen        | (Optional)                                  |
| inst_id        | (Optional)                                  |

|                           |                                    |
|---------------------------|------------------------------------|
| <i>area</i>               | (Optional)                         |
| <i>if_cfg</i>             | (Optional)                         |
| <i>state_str</i>          | (Optional)                         |
| <i>type_str</i>           | (Optional)                         |
| <i>cost</i>               | (Optional)                         |
| <i>ipsec_sa_type</i>      | (Optional) IPsec SA Type           |
| <i>ipsec_sa_algorithm</i> | (Optional) IPsec SA Algorithm name |
| <i>ipsec_sa_spi</i>       | (Optional) IPsec SA SPI Value      |
| <i>bfd_enabled</i>        | (Optional)                         |
| <i>index</i>              | (Optional)                         |
| <i>passive</i>            | (Optional)                         |
| <i>mpls</i>               | (Optional)                         |
| <i>transmit_delay</i>     | (Optional)                         |
| <i>if_priority</i>        | (Optional)                         |
| <i>dr_rid</i>             | (Optional)                         |
| <i>bdr_rid</i>            | (Optional)                         |
| <i>nbr_total</i>          | (Optional)                         |
| <i>nbr_flood</i>          | (Optional)                         |
| <i>nbr_adj</i>            | (Optional)                         |
| <i>gr_nbr</i>             | (Optional)                         |
| <i>hello_interval</i>     | (Optional)                         |
| <i>dead_interval</i>      | (Optional)                         |
| <i>wait_interval</i>      | (Optional)                         |
| <i>rxmt_interval</i>      | (Optional)                         |
| <i>hello_timer</i>        | (Optional)                         |
| <i>wait_timer</i>         | (Optional)                         |
| <i>lsu_timer</i>          | (Optional)                         |
| <i>lsack_timer</i>        | (Optional)                         |
| <i>link_lsa_cnt</i>       | (Optional)                         |

|                       |            |
|-----------------------|------------|
| <i>link_lsa_crc</i>   | (Optional) |
| <i>multi_area_cnt</i> | (Optional) |
| <i>multi_area_adj</i> | (Optional) |

**Command Mode**

- /exec

## show ospfv3 interface brief

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] interface brief [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> <intf_count> TABLE_intf <ifname>
<index> <area> <cost> <state_str> <nbr_total> <admin_status> ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ipv6                  | (Optional) Display IPv6 information         |
| ospfv3                | Display OSPFv3 status and configuration     |
| <i>tag</i>            | (Optional) Process tag                      |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| interface             | OSPF enabled interface                      |
| brief                 | Display summary of OSPFv3 interfaces        |
| <u>__readonly__</u>   | (Optional)                                  |
| TABLE_ctx             | (Optional)                                  |
| <i>ptag</i>           | (Optional)                                  |
| <i>cname</i>          | (Optional)                                  |
| <i>intf_count</i>     | (Optional)                                  |
| TABLE_intf            | (Optional)                                  |
| <i>ifname</i>         | (Optional)                                  |
| <i>index</i>          | (Optional)                                  |
| <i>area</i>           | (Optional)                                  |
| <i>cost</i>           | (Optional)                                  |
| <i>state_str</i>      | (Optional)                                  |
| <i>nbr_total</i>      | (Optional)                                  |
| <i>admin_status</i>   | (Optional)                                  |

### Command Mode

- /exec

## show ospfv3 neighbors

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] neighbors [ { { <interface> [
<neighbor> | <neighbor-name> ] } | { [ <neighbor> | <neighbor-name> ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] } } ] [ __readonly__ TABLE_ctx <ptag> <cname> <nbrcount> [ TABLE_nbr <rid> <priority> <state>
<drstate> <uptime> <ifid> <intf> [ <multiarea> ] <addr> ] ]
```

### Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information             |
| ipv6           | (Optional) Display IPv6 information         |
| ospfv3         | Display OSPFv3 status and configuration     |
| tag            | (Optional) Process tag                      |
| vrf            | (Optional) Display per-VRF information      |
| vrf-name       | (Optional) VRF name                         |
| vrf-known-name | (Optional) Known VRF name                   |
| all            | (Optional) Display information for all VRFs |
| neighbors      | Neighbor list                               |
| interface      | (Optional) OSPF enabled interface           |
| neighbor       | (Optional) Router ID of neighbor            |
| neighbor-name  | (Optional) DNS Name of the neighbor         |
| __readonly__   | (Optional)                                  |
| TABLE_ctx      | (Optional)                                  |
| ptag           | (Optional)                                  |
| cname          | (Optional)                                  |
| nbrcount       | (Optional)                                  |
| TABLE_nbr      | (Optional)                                  |
| rid            | (Optional)                                  |
| priority       | (Optional)                                  |
| state          | (Optional)                                  |
| drstate        | (Optional)                                  |
| uptime         | (Optional)                                  |

|                  |            |
|------------------|------------|
| <i>ifid</i>      | (Optional) |
| <i>intf</i>      | (Optional) |
| <i>multiarea</i> | (Optional) |

**Command Mode**

- /exec

## show ospfv3 neighbors detail

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] neighbors [ <interface> ] [
<neighbor> ] detail [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ private ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ TABLE_nbr <rid> <addr> <area> <intf> <state> <transition> <lastchange> [ <bfd_state>
] [ <priority> ] [ <ifid> ] [ <dr> ] [ <bdr> ] [ <master> ] [ <seqno> ] [ <dbdallsentacked> ] [ <dbdallsent> ] [
<dbdallacked> ] [ <lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts> ] <helloptions> <dbdoptions>
<lastnonhello> [ <deadtimer> ] [ <pacingtimer> ] [ <dbdrxmtimer> ] [ <reqrxmtimer> ] [ <lsutimer> ] [
<rerxmtimer> ] [ <fastrerxmtimer> ] [ <lsacktimer> ] [ <grtimer> ] [ <helpermode> ] [ <helpercand> ] [
<helperterm> ] [ <senddbd> ] [ <sendlsreq> ] [ <sendlsu> ] [ <sendlsurxmt> ] [ <sendlsack> ] [
<sendlsreqreply> ] [ <sradsid> ] [ <sradjflags> ] ] ]
```

### Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information             |
| ipv6           | (Optional) Display IPv6 information         |
| ospfv3         | Display OSPFv3 status and configuration     |
| tag            | (Optional) Process tag                      |
| vrf            | (Optional) Display per-VRF information      |
| vrf-name       | (Optional) VRF name                         |
| vrf-known-name | (Optional) Known VRF name                   |
| all            | (Optional) Display information for all VRFs |
| neighbors      | Neighbor list                               |
| interface      | (Optional) OSPF enabled interface           |
| neighbor       | (Optional) Router ID of neighbor            |
| detail         | Show detailed neighbor display              |
| private        | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| __readonly__   | (Optional)                                  |
| TABLE_ctx      | (Optional)                                  |
| ptag           | (Optional)                                  |
| cname          | (Optional)                                  |
| TABLE_nbr      | (Optional)                                  |
| rid            | (Optional)                                  |
| area           | (Optional)                                  |



|                        |            |
|------------------------|------------|
| <i>intf</i>            | (Optional) |
| <i>state</i>           | (Optional) |
| <i>transition</i>      | (Optional) |
| <i>lastchange</i>      | (Optional) |
| <i>bfd_state</i>       | (Optional) |
| <i>priority</i>        | (Optional) |
| <i>ifid</i>            | (Optional) |
| <i>dr</i>              | (Optional) |
| <i>bdr</i>             | (Optional) |
| <i>master</i>          | (Optional) |
| <i>seqno</i>           | (Optional) |
| <i>dbdallsentacked</i> | (Optional) |
| <i>dbdallsent</i>      | (Optional) |
| <i>dbdallacked</i>     | (Optional) |
| <i>lsaonreqlist</i>    | (Optional) |
| <i>lsafromlastreq</i>  | (Optional) |
| <i>lsregrxmts</i>      | (Optional) |
| <i>helloptions</i>     | (Optional) |
| <i>dbdoptions</i>      | (Optional) |
| <i>lastnonhello</i>    | (Optional) |
| <i>deadtimer</i>       | (Optional) |
| <i>pacingtimer</i>     | (Optional) |
| <i>dbdrxmtimer</i>     | (Optional) |
| <i>regrxmtimer</i>     | (Optional) |
| <i>lsutimer</i>        | (Optional) |
| <i>rerxmtimer</i>      | (Optional) |
| <i>fastrerxmtimer</i>  | (Optional) |
| <i>lsacktimer</i>      | (Optional) |
| <i>grtimer</i>         | (Optional) |

|                       |            |
|-----------------------|------------|
| <i>helpermode</i>     | (Optional) |
| <i>helpercand</i>     | (Optional) |
| <i>helperterm</i>     | (Optional) |
| <i>senddbd</i>        | (Optional) |
| <i>sendlsreq</i>      | (Optional) |
| <i>sendlsu</i>        | (Optional) |
| <i>sendlsurxmt</i>    | (Optional) |
| <i>sendlsack</i>      | (Optional) |
| <i>sendlsreqreply</i> | (Optional) |
| <i>sradjsid</i>       | (Optional) |
| <i>sradjflags</i>     | (Optional) |

**Command Mode**

- /exec

## show ospfv3 neighbors summary

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] neighbors [ <interface> ]
summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname>
TABLE_intf { <ifname> | <total> } <down> <attempt> <init> <twoway> <exstart> <exchange> <loading>
<full> <if_total> ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ipv6                  | (Optional) Display IPv6 information         |
| ospfv3                | Display OSPFv3 status and configuration     |
| <i>tag</i>            | (Optional) Process tag                      |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| neighbors             | Neighbor list                               |
| <i>interface</i>      | (Optional) OSPF enabled interface           |
| summary               | Summary of neighbors                        |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_ctx             | (Optional)                                  |
| <i>ptag</i>           | (Optional)                                  |
| <i>cname</i>          | (Optional)                                  |
| TABLE_intf            | (Optional)                                  |
| <i>ifname</i>         | (Optional)                                  |
| <i>total</i>          | (Optional)                                  |
| <i>down</i>           | (Optional)                                  |
| <i>attempt</i>        | (Optional)                                  |
| <i>init</i>           | (Optional)                                  |
| <i>twoway</i>         | (Optional)                                  |
| <i>exstart</i>        | (Optional)                                  |

|                 |            |
|-----------------|------------|
| <i>exchange</i> | (Optional) |
| <i>loading</i>  | (Optional) |
| <i>full</i>     | (Optional) |
| <i>if_total</i> | (Optional) |

**Command Mode**

- /exec

# show ospfv3 request-list

```
show [ ipv6 ] ospfv3 [ <tag> ] request-list { <ip-addr> | <neighbor-name> } <interface> [ __readonly__ [
  TABLE_ctx <ptag> <cname> [ TABLE_lsreq <nbr_rid> <intf> <nbr_addr> <total> [ TABLE_lsa [ <type>
  ] [ <lsid> ] [ <advrtr> ] [ <seqno> ] [ <cksum> ] [ <age> ] ] ] ] ] ]
```

## Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information         |
| ipv6                 | (Optional) Display IPv6 information     |
| ospfv3               | Display OSPFv3 status and configuration |
| <i>tag</i>           | (Optional) Process tag                  |
| request-list         | Link state request list                 |
| <i>interface</i>     | OSPF enabled interface                  |
| <i>ip-addr</i>       | Neighbor router ID                      |
| <i>neighbor-name</i> | DNS Name of the neighbor                |
| <i>__readonly__</i>  | (Optional)                              |
| TABLE_ctx            | (Optional)                              |
| <i>ptag</i>          | (Optional)                              |
| <i>cname</i>         | (Optional)                              |
| TABLE_lsreq          | (Optional)                              |
| <i>nbr_rid</i>       | (Optional)                              |
| <i>intf</i>          | (Optional)                              |
| <i>total</i>         | (Optional)                              |
| TABLE_lsa            | (Optional)                              |
| <i>type</i>          | (Optional)                              |
| <i>lsid</i>          | (Optional)                              |
| <i>advrtr</i>        | (Optional)                              |
| <i>seqno</i>         | (Optional)                              |
| <i>cksum</i>         | (Optional)                              |
| <i>age</i>           | (Optional)                              |

## Command Mode

- /exec



**Command Mode**

- /exec



## show ospfv3 route

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] route [ <ipv6-prefix> [
longer-prefixes ] ] [ all_routes ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ <hdr_addr> ] [ <hdr_masklen> ] [ TABLE_route <addr> <masklen> <type> [ <in_ulib>
] <in_rib> <direct> [ <area> ] [ <tag> ] [ <vlink_unresolved> ] [ TABLE_route_ubest_nh [ <ubest_nh_addr>
] [ <ubest_nh_intf> ] [ <ubest_cost> ] [ <distance> ] [ <ubest_nh_direct> ] [ <ubest_nh_sham_link> ] [
<ubest_nh_te_tun> ] [ <ubest_nh_in_rib> ] ] [ TABLE_route_mbest_nh [ <mbest_nh_addr> ] [
<mbest_nh_intf> ] [ <mbest_cost> ] [ <mbest_nh_direct> ] [ <mbest_nh_in_rib> ] ] ] ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                      |
| ipv6                  | (Optional) Display IPv6 information                  |
| ospfv3                | Display OSPFv3 status and configuration              |
| <i>tag</i>            | (Optional) Process tag                               |
| vrf                   | (Optional) Display per-VRF information               |
| <i>vrf-name</i>       | (Optional) VRF name                                  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                            |
| all                   | (Optional) Display information for all VRFs          |
| route                 | Internal OSPF routes                                 |
| longer-prefixes       | (Optional) Show exact match and more specific routes |
| all_routes            | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED            |
| <i>tag</i>            | (Optional)   |
| <i>__readonly__</i>   | (Optional)   |
| TABLE_ctx             | (Optional)   |
| <i>ptag</i>           | (Optional)   |
| <i>cname</i>          | (Optional)   |
| <i>hdr_masklen</i>    | (Optional)   |
| TABLE_route           | (Optional)   |
| <i>masklen</i>        | (Optional)   |
| <i>type</i>           | (Optional)   |
| <i>in_ulib</i>        | (Optional)   |
| <i>in_rib</i>         | (Optional)   |

|                           |            |
|---------------------------|------------|
| <i>direct</i>             | (Optional) |
| <i>area</i>               | (Optional) |
| <i>vlink_unresolved</i>   | (Optional) |
| TABLE_route_ubest_nh      | (Optional) |
| <i>ubest_nh_intf</i>      | (Optional) |
| <i>ubest_cost</i>         | (Optional) |
| <i>distance</i>           | (Optional) |
| <i>ubest_nh_direct</i>    | (Optional) |
| <i>ubest_nh_sham_link</i> | (Optional) |
| <i>ubest_nh_te_tun</i>    | (Optional) |
| <i>ubest_nh_in_rib</i>    | (Optional) |
| TABLE_route_mbest_nh      | (Optional) |
| <i>mbest_nh_intf</i>      | (Optional) |
| <i>mbest_cost</i>         | (Optional) |
| <i>mbest_nh_direct</i>    | (Optional) |
| <i>mbest_nh_in_rib</i>    | (Optional) |

**Command Mode**

- /exec

## show ospfv3 route summary

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] route [ <ipv6-prefix> [
longer-prefixes ] ] summary [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx
<ptag> <cname> [ TABLE_route <total_routes> <total_paths> [ TABLE_route_type <path_type>
<path_routes> <path_paths> ] [ TABLE_route_masklen <masklen> <masklen_routes> <masklen_paths> ] ]
]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                      |
| ipv6                  | (Optional) Display IPv6 information                  |
| ospfv3                | Display OSPFv3 status and configuration              |
| <i>tag</i>            | (Optional) Process tag                               |
| vrf                   | (Optional) Display per-VRF information               |
| <i>vrf-name</i>       | (Optional) VRF name                                  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                            |
| all                   | (Optional) Display information for all VRFs          |
| route                 | Internal OSPF routes                                 |
| longer-prefixes       | (Optional) Show exact match and more specific routes |
| summary               | Show route counts                                    |
| <i>__readonly__</i>   | (Optional)   |
| TABLE_ctx             | (Optional)   |
| <i>ptag</i>           | (Optional)   |
| <i>cname</i>          | (Optional)   |
| TABLE_route           | (Optional)   |
| <i>total_routes</i>   | (Optional)   |
| <i>total_paths</i>    | (Optional)   |
| TABLE_route_type      | (Optional)   |
| <i>path_type</i>      | (Optional)   |
| <i>path_routes</i>    | (Optional)   |
| <i>path_paths</i>     | (Optional)   |
| TABLE_route_masklen   | (Optional)   |

|                       |            |
|-----------------------|------------|
| <i>masklen</i>        | (Optional) |
| <i>masklen_routes</i> | (Optional) |
| <i>masklen_paths</i>  | (Optional) |

**Command Mode**

- /exec

## show ospfv3 statistics

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_stats <ptag> <cname> <last_clear> <rid_change> <dr_elections> <older_lsa_rcv> <nbr_state_change> <nbr_dead_postpone> <nbr_dead_expire> <nbr_bad_lsreq> <nbr_seqno_mismatch> <spf_full> <spf_summary> <spf_external> <spf_extsummary> <rtr_generate> <rtr_refresh> <rtr_flush> <rtr_other_flush> <net_generate> <net_refresh> <net_flush> <net_other_flush> <inter_prefix_generate> <inter_prefix_refresh> <inter_prefix_flush> <inter_prefix_other_flush> <inter_router_generate> <inter_router_refresh> <inter_router_flush> <inter_router_other_flush> <asext_generate> <asext_refresh> <asext_flush> <asext_other_flush> <link_generate> <link_refresh> <link_flush> <link_other_flush> <intra_prefix_generate> <intra_prefix_refresh> <intra_prefix_flush> <intra_prefix_other_flush> <unknown_generate> <unknown_refresh> <unknown_flush> <unknown_other_flush> <limbo_lsa_count> <limbo_lsa_hwm> <limbo_lsa_deleted> <limbo_lsa_revived> <limbo_runs> <limbo_lsa_last_time_hwm> [ <limbo_timer> ] <helloq_size> <helloq_max_size> <helloq_hwm> <helloq_drops> <helloq_last_hwm_time> <floodq_size> <floodq_max_size> <floodq_hwm> <floodq_drops> <floodq_last_hwm_time> <lsdb_add_fail> [ TABLE_buffer_detail [ <buf_size> ] [ <buf_size_huge> ] <buf_in_use> <buf_hwm> <buf_perm> <buf_alloc> <buf_free> ] ]
```

### Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information             |
| ipv6           | (Optional) Display IPv6 information         |
| ospfv3         | Display OSPFv3 status and configuration     |
| tag            | (Optional) Process tag                      |
| vrf            | (Optional) Display per-VRF information      |
| vrf-name       | (Optional) VRF name                         |
| vrf-known-name | (Optional) Known VRF name                   |
| all            | (Optional) Display information for all VRFs |
| statistics     | Event counters                              |
| __readonly__   | (Optional)                                  |
| TABLE_stats    | (Optional)                                  |
| ptag           | (Optional)                                  |
| cname          | (Optional)                                  |
| last_clear     | (Optional)                                  |
| rid_change     | (Optional)                                  |
| dr_elections   | (Optional)                                  |
| older_lsa_rcv  | (Optional)                                  |

|                                 |            |
|---------------------------------|------------|
| <i>nbr_state_change</i>         | (Optional) |
| <i>nbr_dead_postpone</i>        | (Optional) |
| <i>nbr_dead_expire</i>          | (Optional) |
| <i>nbr_bad_lsreq</i>            | (Optional) |
| <i>nbr_seqno_mismatch</i>       | (Optional) |
| <i>spf_full</i>                 | (Optional) |
| <i>spf_summary</i>              | (Optional) |
| <i>spf_external</i>             | (Optional) |
| <i>spf_extsummary</i>           | (Optional) |
| <i>rtr_generate</i>             | (Optional) |
| <i>rtr_refresh</i>              | (Optional) |
| <i>rtr_flush</i>                | (Optional) |
| <i>rtr_other_flush</i>          | (Optional) |
| <i>net_generate</i>             | (Optional) |
| <i>net_refresh</i>              | (Optional) |
| <i>net_flush</i>                | (Optional) |
| <i>net_other_flush</i>          | (Optional) |
| <i>inter_prefix_generate</i>    | (Optional) |
| <i>inter_prefix_refresh</i>     | (Optional) |
| <i>inter_prefix_flush</i>       | (Optional) |
| <i>inter_prefix_other_flush</i> | (Optional) |
| <i>inter_router_generate</i>    | (Optional) |
| <i>inter_router_refresh</i>     | (Optional) |
| <i>inter_router_flush</i>       | (Optional) |
| <i>inter_router_other_flush</i> | (Optional) |
| <i>asext_generate</i>           | (Optional) |
| <i>asext_refresh</i>            | (Optional) |
| <i>asext_flush</i>              | (Optional) |
| <i>asext_other_flush</i>        | (Optional) |

|                                 |            |
|---------------------------------|------------|
| <i>link_generate</i>            | (Optional) |
| <i>link_refresh</i>             | (Optional) |
| <i>link_flush</i>               | (Optional) |
| <i>link_other_flush</i>         | (Optional) |
| <i>intra_prefix_generate</i>    | (Optional) |
| <i>intra_prefix_refresh</i>     | (Optional) |
| <i>intra_prefix_flush</i>       | (Optional) |
| <i>intra_prefix_other_flush</i> | (Optional) |
| <i>unknown_generate</i>         | (Optional) |
| <i>unknown_refresh</i>          | (Optional) |
| <i>unknown_flush</i>            | (Optional) |
| <i>unknown_other_flush</i>      | (Optional) |
| <i>limbo_lsa_count</i>          | (Optional) |
| <i>limbo_lsa_hwm</i>            | (Optional) |
| <i>limbo_lsa_deleted</i>        | (Optional) |
| <i>limbo_lsa_revived</i>        | (Optional) |
| <i>limbo_runs</i>               | (Optional) |
| <i>limbo_lsa_last_time_hwm</i>  | (Optional) |
| <i>limbo_timer</i>              | (Optional) |
| <i>helloq_size</i>              | (Optional) |
| <i>helloq_max_size</i>          | (Optional) |
| <i>helloq_hwm</i>               | (Optional) |
| <i>helloq_drops</i>             | (Optional) |
| <i>helloq_last_hwm_time</i>     | (Optional) |
| <i>floodq_size</i>              | (Optional) |
| <i>floodq_max_size</i>          | (Optional) |
| <i>floodq_hwm</i>               | (Optional) |
| <i>floodq_drops</i>             | (Optional) |
| <i>floodq_last_hwm_time</i>     | (Optional) |

|                      |            |
|----------------------|------------|
| <i>lsdb_add_fail</i> | (Optional) |
| TABLE_buffer_detail  | (Optional) |
| <i>buf_size</i>      | (Optional) |
| <i>buf_size_huge</i> | (Optional) |
| <i>buf_in_use</i>    | (Optional) |
| <i>buf_hwm</i>       | (Optional) |
| <i>buf_perm</i>      | (Optional) |
| <i>buf_alloc</i>     | (Optional) |
| <i>buf_free</i>      | (Optional) |

**Command Mode**

- /exec



## show ospfv3 summary-address

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] summary-address [ private ]
[ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [ TABLE_ctx <ptag> <cname> <rid> [
TABLE_sum <addr> <masklen> [ <metric> ] [ <tag> ] [ <pending> ] ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ipv6                  | (Optional) Display IPv6 information         |
| ospfv3                | Display OSPFv3 status and configuration     |
| <i>tag</i>            | (Optional) Process tag                      |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| summary-address       | Summary-address redistribution information  |
| private               | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| <i>tag</i>            | (Optional)                                  |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_ctx             | (Optional)                                  |
| <i>ptag</i>           | (Optional)                                  |
| <i>cname</i>          | (Optional)                                  |
| <i>rid</i>            | (Optional)                                  |
| TABLE_sum             | (Optional)                                  |
| <i>masklen</i>        | (Optional)                                  |
| <i>metric</i>         | (Optional)                                  |
| <i>pending</i>        | (Optional)                                  |

### Command Mode

- /exec

## show ospfv3 traffic

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] traffic [ <interface> [ detail ]
| [ detail ] | [ detail ] vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_traf <ptag>
<cname> <last_clear> [ <ifname> ] <pkt_in> <pkt_out> <lsu_first_trans> <lsu_retrans> <lsu_for_lsreq>
<lsu_nbr_trans> <throttle_out> <throttle_out_token> <throttle_out_ip> <lsa_ignored> <lsa_dropped_spf>
<lsa_dropped_gr> <pkt_drops_in> <pkt_drops_out> <pkt_errors_in> <pkt_errors_out> <hello_errors_in>
<dbds_errors_in> <lsreqs_errors_in> <lsus_errors_in> <lsacks_errors_in> <pkt_unknown_in>
<pkt_unknown_out> <pkt_no_ospf_intf> <bad_version> <bad_crc> <dup_rtr_id> <dup_src_addr>
<invalid_src_addr> <invalid_dst_addr> <non_existing_nbr> <pkt_passive_intf> <wrong_area>
<invalid_pkt_len> <nbr_changed_routerid_ipaddr> <nbr_changed_interfaceid> [ <bad_auth> ] [
<bad_reserved> ] [ <pkt_no_vrf> ] <hello_in> <dbds_in> <lsreqs_in> <lsus_in> <lsacks_in> <hello_out>
<dbds_out> <lsreqs_out> <lsus_out> <lsacks_out> [ <hello_in_hq> <dbds_in_hq> <lsreqs_in_flq>
<lsus_in_flq> <lsacks_in_flq> <lsas_in_dbds_in> <lsas_in_lsreqs_in> <lsas_in_lsus_in> <lsas_in_lsacks_in>
<lsas_in_dbds_out> <lsas_in_lsreqs_out> <lsas_in_lsus_out> <lsas_in_lsacks_out> <lsas_in_rxmt_lsus_out>
] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| ipv6                  | (Optional) Display IPv6 information         |
| ospfv3                | Display OSPFv3 status and configuration     |
| <i>tag</i>            | (Optional) Process tag                      |
| <i>interface</i>      | (Optional) OSPF enabled interface           |
| detail                | (Optional) Display detailed information     |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| traffic               | Packet counters                             |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_traf            | (Optional)                                  |
| <i>ptag</i>           | (Optional)                                  |
| <i>cname</i>          | (Optional)                                  |
| <i>last_clear</i>     | (Optional)                                  |
| <i>ifname</i>         | (Optional)                                  |
| <i>pkt_in</i>         | (Optional)                                  |

|                           |            |
|---------------------------|------------|
| <i>pkt_out</i>            | (Optional) |
| <i>lsu_first_trans</i>    | (Optional) |
| <i>lsu_retrans</i>        | (Optional) |
| <i>lsu_for_lsreq</i>      | (Optional) |
| <i>lsu_nbr_trans</i>      | (Optional) |
| <i>throttle_out</i>       | (Optional) |
| <i>throttle_out_token</i> | (Optional) |
| <i>throttle_out_ip</i>    | (Optional) |
| <i>lsa_ignored</i>        | (Optional) |
| <i>lsa_dropped_spf</i>    | (Optional) |
| <i>lsa_dropped_gr</i>     | (Optional) |
| <i>pkt_drops_in</i>       | (Optional) |
| <i>pkt_drops_out</i>      | (Optional) |
| <i>pkt_errors_in</i>      | (Optional) |
| <i>pkt_errors_out</i>     | (Optional) |
| <i>hello_errors_in</i>    | (Optional) |
| <i>dbds_errors_in</i>     | (Optional) |
| <i>lsreqs_errors_in</i>   | (Optional) |
| <i>lsus_errors_in</i>     | (Optional) |
| <i>lsacks_errors_in</i>   | (Optional) |
| <i>pkt_unknown_in</i>     | (Optional) |
| <i>pkt_unknown_out</i>    | (Optional) |
| <i>pkt_no_ospf_intf</i>   | (Optional) |
| <i>bad_version</i>        | (Optional) |
| <i>bad_crc</i>            | (Optional) |
| <i>dup_rtr_id</i>         | (Optional) |
| <i>dup_src_addr</i>       | (Optional) |
| <i>invalid_src_addr</i>   | (Optional) |
| <i>invalid_dst_addr</i>   | (Optional) |

|                                    |            |
|------------------------------------|------------|
| <i>non_existing_nbr</i>            | (Optional) |
| <i>pkt_passive_intf</i>            | (Optional) |
| <i>wrong_area</i>                  | (Optional) |
| <i>invalid_pkt_len</i>             | (Optional) |
| <i>nbr_changed_routerid_ipaddr</i> | (Optional) |
| <i>nbr_changed_interfaceid</i>     | (Optional) |
| <i>bad_auth</i>                    | (Optional) |
| <i>bad_reserved</i>                | (Optional) |
| <i>pkt_no_vrf</i>                  | (Optional) |
| <i>hellos_in</i>                   | (Optional) |
| <i>dbds_in</i>                     | (Optional) |
| <i>lsreqs_in</i>                   | (Optional) |
| <i>lsus_in</i>                     | (Optional) |
| <i>lsacks_in</i>                   | (Optional) |
| <i>hellos_out</i>                  | (Optional) |
| <i>dbds_out</i>                    | (Optional) |
| <i>lsreqs_out</i>                  | (Optional) |
| <i>lsus_out</i>                    | (Optional) |
| <i>lsacks_out</i>                  | (Optional) |
| <i>hellos_in_hq</i>                | (Optional) |
| <i>dbds_in_hq</i>                  | (Optional) |
| <i>lsreqs_in_flq</i>               | (Optional) |
| <i>lsus_in_flq</i>                 | (Optional) |
| <i>lsacks_in_flq</i>               | (Optional) |
| <i>lsas_in_dbds_in</i>             | (Optional) |
| <i>lsas_in_lsreqs_in</i>           | (Optional) |
| <i>lsas_in_lsus_in</i>             | (Optional) |
| <i>lsas_in_lsacks_in</i>           | (Optional) |
| <i>lsas_in_dbds_out</i>            | (Optional) |

|                              |            |
|------------------------------|------------|
| <i>lsas_in_lsreqs_out</i>    | (Optional) |
| <i>lsas_in_lsus_out</i>      | (Optional) |
| <i>lsas_in_lsacks_out</i>    | (Optional) |
| <i>lsas_in_rxmt_lsus_out</i> | (Optional) |

**Command Mode**

- /exec

## show ospfv3 virtual-links

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] virtual-links [ vrf { <vrf-name>
| <vrf-known-name> | all } ] [ _readonly_ TABLE_ctx <ptag> <cname> [ TABLE_vlink <name> <nbr_rid>
<if_state> <transit_area> <nh_intf> <nbr_addr> [ <transit_area_stub> ] [ <transit_area_nssa> ] <addr> [
<masklen> ] <inst_id> <area> [ <if_cfg> ] <state_str> <type_str> <cost> <index> [ <passive> ] [ <mpls> ]
[ <transmit_delay> ] [ <if_priority> ] [ <dr_rid> ] [ <dr_addr> ] [ <bdr_rid> ] [ <bdr_addr> ] [ <nbr_total> ]
[ <nbr_flood> ] [ <nbr_adj> ] [ <gr_nbr> ] [ <hello_interval> ] [ <dead_interval> ] [ <wait_interval> ] [
<rxmt_interval> ] [ <hello_timer> ] [ <wait_timer> ] [ <pacing_timer> ] [ <lsu_timer> ] [ <lsack_timer> ] [
<netlsa_throt_timer> ] [ <link_lsa_cnt> ] [ <link_lsa_crc> ] [ <state> ] [ <transition> ] [ <lastchange> ] [
<priority> ] [ <ifid> ] [ <dr> ] [ <bdr> ] [ <master> ] [ <seqno> ] [ <dbdallsentacked> ] [ <dbdallsent> ] [
<dbdallacked> ] [ <lsaonreqlist> ] [ <lsafromlastreq> ] [ <lsreqrxmts> ] [ <hellooptions> ] [ <dbdoptions> ] [
<lastnonhello> ] [ <deadtimer> ] [ <pacingtimer> ] [ <dbdrxmtimer> ] [ <reqrxmtimer> ] [ <lsutimer> ] [
<rerxmtimer> ] [ <fastrerxmtimer> ] [ <lsacktimer> ] [ <grtimer> ] [ <helpermode> ] [ <helpercand> ] [
<helperterm> ] [ <senddbd> ] [ <sendlsreq> ] [ <sendlsu> ] [ <sendlsurxmt> ] [ <sendlsack> ] [
<sendlsreqreply> ] [ <ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] ] ]
```

### Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information             |
| ipv6           | (Optional) Display IPv6 information         |
| ospfv3         | Display OSPFv3 status and configuration     |
| tag            | (Optional) Process tag                      |
| vrf            | (Optional) Display per-VRF information      |
| vrf-name       | (Optional) VRF name                         |
| vrf-known-name | (Optional) Known VRF name                   |
| all            | (Optional) Display information for all VRFs |
| virtual-links  | Virtual link information                    |
| _readonly_     | (Optional)                                  |
| TABLE_ctx      | (Optional)                                  |
| ptag           | (Optional)                                  |
| cname          | (Optional)                                  |
| TABLE_vlink    | (Optional)                                  |
| name           | (Optional)                                  |
| nbr_rid        | (Optional)                                  |
| if_state       | (Optional)                                  |
| transit_area   | (Optional)                                  |

|                          |            |
|--------------------------|------------|
| <i>nh_intf</i>           | (Optional) |
| <i>transit_area_stub</i> | (Optional) |
| <i>transit_area_nssa</i> | (Optional) |
| <i>masklen</i>           | (Optional) |
| <i>inst_id</i>           | (Optional) |
| <i>area</i>              | (Optional) |
| <i>if_cfg</i>            | (Optional) |
| <i>state_str</i>         | (Optional) |
| <i>type_str</i>          | (Optional) |
| <i>cost</i>              | (Optional) |
| <i>index</i>             | (Optional) |
| <i>passive</i>           | (Optional) |
| <i>mpls</i>              | (Optional) |
| <i>transmit_delay</i>    | (Optional) |
| <i>if_priority</i>       | (Optional) |
| <i>dr_rid</i>            | (Optional) |
| <i>bdr_rid</i>           | (Optional) |
| <i>nbr_total</i>         | (Optional) |
| <i>nbr_flood</i>         | (Optional) |
| <i>nbr_adj</i>           | (Optional) |
| <i>gr_nbr</i>            | (Optional) |
| <i>hello_interval</i>    | (Optional) |
| <i>dead_interval</i>     | (Optional) |
| <i>wait_interval</i>     | (Optional) |
| <i>rxmt_interval</i>     | (Optional) |
| <i>hello_timer</i>       | (Optional) |
| <i>wait_timer</i>        | (Optional) |
| <i>pacing_timer</i>      | (Optional) |
| <i>lsu_timer</i>         | (Optional) |

|                           |            |
|---------------------------|------------|
| <i>lsack_timer</i>        | (Optional) |
| <i>netlsa_throt_timer</i> | (Optional) |
| <i>link_lsa_cnt</i>       | (Optional) |
| <i>link_lsa_crc</i>       | (Optional) |
| <i>state</i>              | (Optional) |
| <i>transition</i>         | (Optional) |
| <i>lastchange</i>         | (Optional) |
| <i>priority</i>           | (Optional) |
| <i>ifid</i>               | (Optional) |
| <i>dr</i>                 | (Optional) |
| <i>bdr</i>                | (Optional) |
| <i>master</i>             | (Optional) |
| <i>seqno</i>              | (Optional) |
| <i>dbdallsentacked</i>    | (Optional) |
| <i>dbdallsent</i>         | (Optional) |
| <i>dbdallacked</i>        | (Optional) |
| <i>lsaonreqlist</i>       | (Optional) |
| <i>lsafromlastreq</i>     | (Optional) |
| <i>lsreqrxmts</i>         | (Optional) |
| <i>helloptions</i>        | (Optional) |
| <i>dbdoptions</i>         | (Optional) |
| <i>lastnonhello</i>       | (Optional) |
| <i>deadtimer</i>          | (Optional) |
| <i>pacingtimer</i>        | (Optional) |
| <i>dbdrxmtimer</i>        | (Optional) |
| <i>reqrxmtimer</i>        | (Optional) |
| <i>lsutimer</i>           | (Optional) |
| <i>rerxmtimer</i>         | (Optional) |
| <i>fastrerxmtimer</i>     | (Optional) |



|                           |                                    |
|---------------------------|------------------------------------|
| <i>lsacktimer</i>         | (Optional)                         |
| <i>grtimer</i>            | (Optional)                         |
| <i>helpermode</i>         | (Optional)                         |
| <i>helpercand</i>         | (Optional)                         |
| <i>helperterm</i>         | (Optional)                         |
| <i>senddbd</i>            | (Optional)                         |
| <i>sendlsreq</i>          | (Optional)                         |
| <i>sendlsu</i>            | (Optional)                         |
| <i>sendlsurxmt</i>        | (Optional)                         |
| <i>sendlsack</i>          | (Optional)                         |
| <i>sendlsreqreply</i>     | (Optional)                         |
| <i>ipsec_sa_type</i>      | (Optional) IPsec SA Type           |
| <i>ipsec_sa_algorithm</i> | (Optional) IPsec SA Algorithm name |
| <i>ipsec_sa_spi</i>       | (Optional) IPsec SA SPI Value      |

**Command Mode**

- /exec

## show ospfv3 virtual-links brief

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] virtual-links brief [ vrf {
<vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> <vlink_count> [
TABLE_vlink <nbr_rid> <vlink_num> <transit_area> <cost> <if_state> ] ]
```

### Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information             |
| ipv6           | (Optional) Display IPv6 information         |
| ospfv3         | Display OSPFv3 status and configuration     |
| tag            | (Optional) Process tag                      |
| vrf            | (Optional) Display per-VRF information      |
| vrf-name       | (Optional) VRF name                         |
| vrf-known-name | (Optional) Known VRF name                   |
| all            | (Optional) Display information for all VRFs |
| virtual-links  | Virtual link information                    |
| brief          | Display summary of OSPFv3 virtual links     |
| __readonly__   | (Optional)                                  |
| TABLE_ctx      | (Optional)                                  |
| ptag           | (Optional)                                  |
| cname          | (Optional)                                  |
| vlink_count    | (Optional)                                  |
| TABLE_vlink    | (Optional)                                  |
| nbr_rid        | (Optional)                                  |
| vlink_num      | (Optional)                                  |
| transit_area   | (Optional)                                  |
| cost           | (Optional)                                  |
| if_state       | (Optional)                                  |

### Command Mode

- /exec

# show otv

```
show otv [ <overlay-if> [ vpn <vpn-name> ] ]
```

## Syntax Description

|                   |                              |
|-------------------|------------------------------|
| show              | Display OTV information      |
| otv               | Configure OTV information    |
| <i>overlay-if</i> | (Optional) Overlay interface |
| vpn               | (Optional) Overlay VPN name  |
| <i>vpn-name</i>   | (Optional) OTV VPN Name      |

## Command Mode

- /exec





## P Show Commands

---

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# show param-list

```
show param-list [ param-list-name <plistname> ] [ show-instance ] [ __readonly__ TABLE_param_list
<param_list_name> [ <param_list_var> ] [ <param_list_type> ] [ TABLE_instance <param_instance_name>
[ <param_instance_var> ] [ <param_instance_val> ] ] ]
```

## Syntax Description

|                            |  |
|----------------------------|--|
| show                       | Show running system information              |
| param-list                 | Show param-list                              |
| param-list-name            | (Optional) param list name                   |
| <i>plistname</i>           | (Optional) Enter the name of the param-list  |
| show-instance              | (Optional) show instances for the param list |
| <i>__readonly__</i>        | (Optional)                                   |
| TABLE_param_list           | (Optional)                                   |
| <i>param_list_name</i>     | (Optional) Parameter List Name               |
| <i>param_list_var</i>      | (Optional) Parameter Name                    |
| <i>param_list_type</i>     | (Optional) Param Type                        |
| TABLE_instance             | (Optional)                                   |
| <i>param_instance_name</i> | (Optional) Instance Name                     |
| <i>param_instance_var</i>  | (Optional) Instance Variable Name            |
| <i>param_instance_val</i>  | (Optional) Instance Variable Value           |

## Command Mode

- /exec



# show password secure-mode

```
show password secure-mode [ __readonly__ { secure_mode <secure_mode_status> } ]
```

## Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information              |
| password                  | Password for the user                        |
| secure-mode               | secure mode for changing passwords           |
| __readonly__              | (Optional)                                   |
| secure_mode               | (Optional) run time status about xml         |
| <i>secure_mode_status</i> | (Optional) Run time status about secure mode |

## Command Mode

- /exec

# show password strength-check

```
show password strength-check [ __readonly__ { operation_status <o_status> } ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                               |
| password                | Password for the user   |
| strength-check          | Strength check of password                                    |
| <i>__readonly__</i>     | (Optional)  |
| <i>operation_status</i> | (Optional) run-time information about password strength-check |
| <i>o_status</i>         | (Optional) operational status of password strength check      |

## Command Mode

- /exec

# show plb

```
show plb [ service <service-name> ] [ brief ] [ __readonly__ <is_firstentry> <is_detail> <is_active>
<is_firstentry_routemap> <is_firstentry_standby> <is_firstentry_acl> <is_lastentry> [ TABLE_summary
<service_name> <state> [ <reason> ] <lb_scheme> [ <interface> ] <buckets> [ <vrf_name> ] [ <excl_acl> ]
[ <src_interface> ] [ TABLE_device <device_grp> <dg_probe> <dg_probe_port> ] [ TABLE_route_map [
<route_map> ] <interface> <r_status> ] [ TABLE_vip [ <vip_ip> ] [ <vip_probe> ] [ <vip_port> ] [
<vip_dgname> ] [ <ace_name> ] [ <ace_seq> ] [ <ace_ip> ] [ <ace_protocol> ] [ <ace_port> ] [
TABLE_vip_node [ <vip_node> ] [ <vip_nodev6> ] <vip_config> <vip_weight> <vip_node_probe>
<vip_node_probe_port> <vip_node_probe_ip> <vip_status> <vip_track_id> <vip_ip_sla_id> [
TABLE_vip_standby [ <vip_standby_ip> ] [ <vip_standby_ipv6> ] <vip_standby_config>
<vip_standby_weight> <vip_standby_probe> <vip_standby_probe_port> <vip_standby_probe_ip>
<vip_standby_status> <vip_standby_track_id> <vip_standby_sla_id> ] [ TABLE_vip_acl [ <vip_access_list>
] ] ] [ TABLE_node [ <node> ] [ <nodev6> ] <config> <weight> <node_probe> <node_probe_port>
<node_probe_ip> <status> <track_id> <ip_sla_id> [ TABLE_standby [ <standby_ip> ] [ <standby_ipv6> ]
<standby_config> <standby_weight> <standby_probe> <standby_probe_port> <standby_probe_ip>
<standby_status> <standby_track_id> <standby_sla_id> ] [ TABLE_acl [ <access_list> ] ] ] ] ]
```

## Syntax Description

|                               |   |
|-------------------------------|---|
| show                          | Show running system information             |
| plb                           | Display PLB service details                 |
| service                       | (Optional) PLB details for specific service |
| <i>service-name</i>           | (Optional) Specify PLB service name         |
| brief                         | (Optional) Display PLB service in brief     |
| <i>__readonly__</i>           | (Optional) Read Only                        |
| <i>is_firstentry</i>          | (Optional)                                  |
| <i>is_detail</i>              | (Optional)                                  |
| <i>is_active</i>              | (Optional)                                  |
| <i>is_firstentry_routemap</i> | (Optional)                                  |
| <i>is_firstentry_acl</i>      | (Optional)                                  |
| <i>is_lastentry</i>           | (Optional)                                  |
| <i>is_firstentry_standby</i>  | (Optional)                                  |
| TABLE_summary                 | (Optional)                                  |
| <i>service_name</i>           | (Optional) PLB service name                 |
| <i>lb_scheme</i>              | (Optional) lb scheme                        |
| <i>interface</i>              | (Optional) interface                        |

|                      |                                       |
|----------------------|---------------------------------------|
| <i>src_interface</i> | (Optional) source interface for probe |
| <i>state</i>         | (Optional) state                      |
| <i>buckets</i>       | (Optional) buckets                    |
| <i>reason</i>        | (Optional) inactive reason            |
| <i>vrf_name</i>      | (Optional) VRF-Name                   |
| <i>excl_acl</i>      | (Optional) exclude access-list        |
| TABLE_device         | (Optional)                            |
| <i>device_grp</i>    | (Optional) service device group       |
| <i>dg_probe</i>      | (Optional) probe type                 |
| <i>dg_probe_port</i> | (Optional) probe port                 |
| TABLE_route_map      | (Optional)                            |
| <i>route_map</i>     | (Optional) service route map          |
| <i>interface</i>     | (Optional) interface                  |
| <i>r_status</i>      | (Optional) route map status           |
| TABLE_vip            | (Optional)                            |
| <i>vip_ip</i>        | (Optional) vip ip                     |
| <i>vip_probe</i>     | (Optional) vip protocol               |
| <i>vip_port</i>      | (Optional) vip port                   |
| <i>vip_dgname</i>    | (Optional) vip device group           |
| <i>ace_name</i>      | (Optional) ace information            |
| <i>ace_seq</i>       | (Optional) ace information            |
| <i>ace_ip</i>        | (Optional) ace information            |
| <i>ace_protocol</i>  | (Optional) ace information            |
| <i>ace_port</i>      | (Optional) ace information            |
| TABLE_vip_node       | (Optional)                            |
| <i>vip_node</i>      | (Optional) service node ip            |
| <i>vip_nodev6</i>    | (Optional) service node IPv6          |
| <i>vip_config</i>    | (Optional) node config                |
| <i>vip_weight</i>    | (Optional) node weight                |

|                               |                                    |
|-------------------------------|------------------------------------|
| <i>vip_status</i>             | (Optional) node status             |
| <i>vip_node_probe</i>         | (Optional) node probe type         |
| <i>vip_node_probe_port</i>    | (Optional) node probe port         |
| <i>vip_node_probe_ip</i>      | (Optional) node probe ip           |
| <i>vip_track_id</i>           | (Optional) node track id           |
| <i>vip_ip_sla_id</i>          | (Optional) node ip sla id          |
| TABLE_vip_standby             | (Optional)                         |
| <i>vip_standby_ip</i>         | (Optional) standby node ip         |
| <i>vip_standby_ipv6</i>       | (Optional) standby node ipv6       |
| <i>vip_standby_config</i>     | (Optional) standby node config     |
| <i>vip_standby_weight</i>     | (Optional) standby node weight     |
| <i>vip_standby_status</i>     | (Optional) standby node status     |
| <i>vip_standby_probe</i>      | (Optional) standby node probe type |
| <i>vip_standby_probe_port</i> | (Optional) standby node probe port |
| <i>vip_standby_probe_ip</i>   | (Optional) standby node probe ip   |
| <i>vip_standby_track_id</i>   | (Optional) standby node track id   |
| <i>vip_standby_sla_id</i>     | (Optional) standby node sla id     |
| TABLE_vip_acl                 | (Optional)                         |
| <i>vip_access_list</i>        | (Optional) access list             |
| TABLE_node                    | (Optional)                         |
| <i>node</i>                   | (Optional) service node ip         |
| <i>nodev6</i>                 | (Optional) service node IPv6       |
| <i>config</i>                 | (Optional) node config             |
| <i>weight</i>                 | (Optional) node weight             |
| <i>status</i>                 | (Optional) node status             |
| <i>node_probe</i>             | (Optional) node probe type         |
| <i>node_probe_port</i>        | (Optional) node probe port         |
| <i>node_probe_ip</i>          | (Optional) node probe ip           |
| <i>track_id</i>               | (Optional) node track id           |

|                           |                                    |
|---------------------------|------------------------------------|
| <i>ip_sla_id</i>          | (Optional) node ip sla id          |
| TABLE_standby             | (Optional)                         |
| <i>standby_ip</i>         | (Optional) standby node ip         |
| <i>standby_ipv6</i>       | (Optional) standby node ipv6       |
| <i>standby_config</i>     | (Optional) standby node config     |
| <i>standby_weight</i>     | (Optional) standby node weight     |
| <i>standby_status</i>     | (Optional) standby node status     |
| <i>standby_probe</i>      | (Optional) standby node probe type |
| <i>standby_probe_port</i> | (Optional) standby node probe port |
| <i>standby_probe_ip</i>   | (Optional) standby node probe ip   |
| <i>standby_track_id</i>   | (Optional) standby node track id   |
| <i>standby_sla_id</i>     | (Optional) standby node sla id     |
| TABLE_acl                 | (Optional)                         |
| <i>access_list</i>        | (Optional) access list             |

**Command Mode**

- /exec

## show plb analytics

```
show plb analytics [ service <service-name> ] [ src { <sip> | <sipv6> } | node { <nip> | <nipv6> } | vip {
<vip> | <vipv6> } | device-group <group-name> ] [ brief ] [ __readonly__ <plbshowinfo-stats-svc-hdr> [
TABLE_stats_svc <plbshowinfo-stats-service_name> <plbshowinfo-stats-dev-grp> <plbshowinfo-stats-vip>
<plbshowinfo-stats-vip-pkts> <plbshowinfo-stats-vip-pkts-percentage> [ <plbshowinfo-stats-ace-seq> ] [
<plbshowinfo-stats-ace-ip> ] <plbshowinfo-stats-bkt-hdr> [ TABLE_stats_bkt <plbshowinfo-stats-acl> [
<plbshowinfo-stats-oper-node> ] <plbshowinfo-stats-node-mode> <plbshowinfo-stats-orig-node>
<plbshowinfo-stats-node-pkts> <plbshowinfo-stats-node-pkts-percentage> [ <plbshowinfo-stats-acl-pkts> ]
[ <plbshowinfo-for-ace> ] ] ] <plb-show-end> [ <plb-true-end> ] ]
```

### Syntax Description

|                                       |  |
|---------------------------------------|--|
| show                                  | Show running system information  |
| plb                                   | PLB service  |
| analytics                             | PLB analytics information  |
| service                               | (Optional) PLB analytics for specific service                                |
| <i>service-name</i>                   | (Optional) Specify plb service name  |
| src                                   | (Optional) Analytics information for source (bucket) ip                      |
| node                                  | (Optional) Analytics information for destination device group node/server ip |
| vip                                   | (Optional) Analytics information for virtual ip                              |
| device-group                          | (Optional) Analytics information of specified device group                   |
| <i>group-name</i>                     | (Optional) Specify device group name   |
| <i>sip</i>                            | (Optional) Specify source ipv4 address                                       |
| <i>nip</i>                            | (Optional) Specify destination ipv4 address                                  |
| <i>vip</i>                            | (Optional) Specify virtual ipv4 address                                      |
| brief                                 | (Optional) Brief analytics information                                       |
| __readonly__                          | (Optional) Read Only   |
| <i>plbshowinfo-stats-svc-hdr</i>      | (Optional) PLB analytics service header                                      |
| TABLE_stats_svc                       | (Optional) plb stats service   |
| <i>plbshowinfo-stats-service_name</i> | (Optional) PLB analytics service name  |
| <i>plbshowinfo-stats-dev-grp</i>      | (Optional) PLB analytics device group  |
| <i>plbshowinfo-stats-vip</i>          | (Optional) PLB analytics VIP IP  |

|   |   |
|---|---|
| <i>plbshowinfo-stats-vip-pkts</i>             | (Optional) PLB analytics virtual ip pkt_count         |
| <i>plbshowinfo-stats-vip-pkts-percentage</i>  | (Optional) PLB analytics virtual ip pkts percentage   |
| <i>plbshowinfo-stats-ace-seq</i>              | (Optional) PLB analytics ACE name and sequence number |
| <i>plbshowinfo-stats-ace-ip</i>               | (Optional) PLB analytics ACE ip/mask/prefix           |
| <i>plbshowinfo-stats-bkt-hdr</i>              | (Optional) PLB analytics bucket header                |
| TABLE_stats_bkt                               | (Optional) plb stats bucket                           |
| <i>plbshowinfo-stats-acl</i>                  | (Optional) PLB analytics bucket/acl name              |
| <i>plbshowinfo-stats-oper-node</i>            | (Optional) PLB analytics Operational node ip          |
| <i>plbshowinfo-stats-node-mode</i>            | (Optional) PLB analytics node mode                    |
| <i>plbshowinfo-stats-orig-node</i>            | (Optional) PLB analytics Original node ip             |
| <i>plbshowinfo-stats-node-pkts</i>            | (Optional) PLB analytics node pkts count              |
| <i>plbshowinfo-stats-node-pkts-percentage</i> | (Optional) PLB analytics node pkts percentage         |
| <i>plbshowinfo-stats-acl-pkts</i>             | (Optional) PLB analytics acl pkts                     |
| <i>plbshowinfo-for-ace</i>                    | (Optional) PLB analytics for ACE                      |
| <i>plb-show-end</i>                           | (Optional) Show plb end marker                        |
| <i>plb-true-end</i>                           | (Optional) show plb true end marker                   |

**Command Mode**

- /exec



# show plb vrf

```
show plb vrf [ <vrf-name> ] [ __readonly__ <plbshowinfo-vrf-hdr> { TABLE_svc
<plbshowinfo-vrf-service_name> <plbshowinfo-vrf-name> <plbshowinfo-vrf-id> } <plb-show-end> [
<plb-true-end> ] ]
```

## Syntax Description

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| show                                | Show running system information     |
| plb                                 | PLB service                         |
| vrf                                 | PLB service vrf                     |
| <i>vrf-name</i>                     | (Optional) VRF name                 |
| <i>__readonly__</i>                 | (Optional) Read Only                |
| <i>plbshowinfo-vrf-hdr</i>          | (Optional) PLB info vrf header      |
| <i>TABLE_svc</i>                    | (Optional) PLB Service VRF details  |
| <i>plbshowinfo-vrf-service_name</i> | (Optional) PLB service name         |
| <i>plbshowinfo-vrf-name</i>         | (Optional) PLB vrf name             |
| <i>plbshowinfo-vrf-id</i>           | (Optional) PLB vrf id               |
| <i>plb-show-end</i>                 | (Optional) Show plb end marker      |
| <i>plb-true-end</i>                 | (Optional) show plb true end marker |

## Command Mode

- /exec

## show pmap-int-br interface br

```
show pmap-int-br interface br [ __readonly__ { [ TABLE_ifvlanstr <if-vlan-str> <if-status> [ <in-pmap-qos>
] [ <out-pmap-qos> ] [ <in-pmap-que> ] [ <out-pmap-que> ] ] } ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                             |
| pmap-int-br         | Show policy maps  |
| interface           | Show service policy on interface                            |
| br                  | Brief report of all policies attached to interfaces         |
| TABLE_ifvlanstr     | (Optional) all interfaces xml sessions                      |
| <i>if-vlan-str</i>  | (Optional) ifindex or vlan id: xml key                      |
| <i>__readonly__</i> | (Optional)  |
| <i>if-status</i>    | (Optional) Interface/vlan status [active/inactive]: xml key |
| <i>in-pmap-qos</i>  | (Optional) Input QoS Policy-map name: xml key               |
| <i>out-pmap-qos</i> | (Optional) output QoS Policy-map name: xml key              |
| <i>in-pmap-que</i>  | (Optional) Input Que Policy-map name: xml key               |
| <i>out-pmap-que</i> | (Optional) Output Que Policy-map name: xml key              |

### Command Mode

- /exec

# show pmap-int

```
show pmap-int { interface [ <i>iface-list</i> ] [ input | output ] [ type <qos-or-q> ] [ detail ] |
```

## Syntax Description

|                   |   |
|-------------------|---|
| show              | Show running system information               |
| pmap-int          | Show policy maps                              |
| interface         | Show service policy on interface              |
| <i>iface-list</i> | (Optional) List of Interface                  |
| input             | (Optional) Input Service policy               |
| output            | (Optional) Output Service policy              |
| type              | (Optional) Type of policy                     |
| <i>qos-or-q</i>   | (Optional)                                    |
| detail            | (Optional) Detailed QoS or Queuing statistics |

## Command Mode

- /exec

# show pnp lease

show pnp lease

## Syntax Description

|       |                                 |
|-------|---------------------------------|
| show  | Show running system information |
| pnp   | Plug and Play                   |
| lease | Show PnP lease information      |

## Command Mode

- /exec

# show pnp posix\_pi configs

show pnp posix\_pi configs

## Syntax Description

|          |                                 |
|----------|---------------------------------|
| show     | Show running system information |
| pnp      | Plug and Play                   |
| posix_pi | Posix PnP PI agent              |
| configs  | Posix PnP PI configuration      |

## Command Mode

- /exec

# show pnp posix\_pi tech-support

show pnp posix\_pi tech-support

## Syntax Description

|              |                                 |
|--------------|---------------------------------|
| show         | Show running system information |
| pnp          | Plug and Play                   |
| posix_pi     | Posix PnP PI agent              |
| tech-support | Technical Support               |

## Command Mode

- /exec

# show pnp profiles

show pnp profiles

## Syntax Description

|          |                                 |
|----------|---------------------------------|
| show     | Show running system information |
| pnp      | Plug and Play                   |
| profiles | Show POSIX PnP Profile          |

## Command Mode

- /exec

# show pnp status

show pnp status

## Syntax Description

|        |                                 |
|--------|---------------------------------|
| show   | Show running system information |
| pnp    | Plug and Play                   |
| status | Show POSIX PnP Status           |

## Command Mode

- /exec



# show pnp summary

show pnp summary

## Syntax Description

|         |                                 |
|---------|---------------------------------|
| show    | Show running system information |
| pnp     | Plug and Play                   |
| summary | Show POSIX PnP Summary          |

## Command Mode

- /exec

# show pnp version

show pnp version

## Syntax Description

|         |                                 |
|---------|---------------------------------|
| show    | Show running system information |
| pnp     | Plug and Play                   |
| version | Show POSIX PnP Version          |

## Command Mode

- /exec

# show policy-map

```
show policy-map [ { [ type qos ] [ <pmap-name-qos> ] } | { type queuing [ <pmap-name-que> ] } ] [
__readonly__ { [ <display-all> ] [ TABLE_pmap [ <pmap-key> ] [ <type-spec> ] [ <yqos-or-q> ] [ <options>
] [ <pmap-name-out> ] [ <nq-xpmap-name> ] [ <desc> ] [ <nq-desc> ] [ TABLE_cmap [ <cmap-key> ] [
<type-cmap-spec> ] [ <xqos-or-q> ] [ <cmap-name> ] [ <nq-xcmap-name> ] [ TABLE_action [ <action-key>
] [ <nq-action-key> ] [ <serv-pol-type> ] [ <serv-pol-name> ] [ <cos-list> ] [ <qos-group-list> ] [ <protocol>
] [ <nq-pause> ] [ <timeout> ] [ <nq-size-in-bytes> ] [ <nq-xoff-bytes> ] [ <nq-xon-bytes> ] [ <pfc-cos-list> ] [
<pfc_rx_only> ] [ <cc> ] [ <thresh-units> ] [ <min-thresh> ] [ <max-thresh> ] [ <drop-prob> ] [ <iod> ] [
<mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctcp-threshold> ] [ <queue-limit> ] [ <inner> ] [ <dlb-disable> ] [ <cos>
] [ <exp-val-imposition> ] [ <exp-val-topmost> ] [ <dscp-enum> ] [ <dscp> ] [ <prec-enum> ] [ <prec> ] [
<disc-class> ] [ <qos-group> ] [ <tmap-from> ] [ <tmap-to> ] [ <tmap-name> ] [ <avg-rate-type> ] [ <rate-units>
] [ <shape-rate> ] [ <min-rate-type> ] [ <min-rate-units> ] [ <shape-min-rate> ] [ <max-rate-type> ] [
<max-rate-units> ] [ <shape-max-rate> ] [ <rise-threshold-units> ] [ <fall-threshold-units> ] [ <prio-level> ]
] [ <qlim-param-type> ] [ <qlim-param-val> ] [ <ooo> ] [ <size-units> ] [ <qlim-size> ] [ <qlim-enum-spec>
] [ <rdet-agg> ] [ <rdet-mode> ] [ <rdet-burst-opt> ] [ <rdet-mesh-opt> ] [ <rdet-ecn> ] [ TABLE_rdet
<rdet-key> ] [ <rdet-values> ] [ <rdet-min-thresh> ] [ <rdet-size-units> ] [ <rdet-max-thresh> ] [ <rdet-drop-prob>
] [ <rdet-weight> ] [ <rdet-cap-average> ] [ <rdet-nonecn-mode> ] [ TABLE_rdet_nonecn <rdet-nonecn-key>
] [ <rdet-nonecn-min-thresh> ] [ <rdet-nonecn-size-units> ] [ <rdet-nonecn-max-thresh> ] [
<rdet-nonecn-drop-prob> ] [ <afd-mode> ] [ TABLE_afd <afd-key> ] [ <afd-values> ] [ <afd-queue-desired>
] [ <afd-size-units> ] [ <afd-ecn> ] ] [ <pause> ] [ <size-in-bytes> ] [ <xoff-bytes> ] [ <xon-bytes> ] [
<priority-group-number> ] [ <bw-units> ] [ <bw-rate> ] [ <rem-bw-units> ] [ <rem-bw-rate> ] [
<agg-policer-name> ] [ <cir-spec> ] [ <bc-spec> ] [ <be-spec> ] [ <cir-rate-units> ] [ <cir> ] [ <bc-size-units>
] [ <bc> ] [ <pir-rate-units> ] [ <pir> ] [ <be-size-units> ] [ <be> ] [ <cnf-col-cmap> ] [ <exc-col-cmap> ] [
TABLE_police <police-key> ] [ <cnf-act> ] [ <exc-act> ] [ <vio-act> ] [ <set-type> ] [ <enum-spec> ] [ <set-val>
] [ <ptmap-from> ] [ <ptmap-to> ] [ <ptmap-name> ] ] [ <burst-detect-enable> ] ] ] ] }
```

## Syntax Description

|                      |  |
|----------------------|--|
| show                 | Show running system information            |
| policy-map           | Show policy maps                           |
| type                 | (Optional) Type of the policy-map          |
| qos                  | (Optional) type qos                        |
| queuing              | (Optional) type queuing                    |
| <i>pmap-name-qos</i> | (Optional) policy map name (type qos)      |
| <i>pmap-name-que</i> | (Optional) policy map name (type queuing)  |
| <i>__readonly__</i>  | (Optional)                                 |
| <i>display-all</i>   | (Optional) Display all kinds of class-maps |
| TABLE_pmap           | (Optional) all pmap xml sessions           |
| <i>pmap-key</i>      | (Optional) Policy-map name: xml key        |
| TABLE_rdet           | (Optional) all WRED sessions               |

|                       |   |
|-----------------------|---|
| TABLE_rdet_nonecn     | (Optional) all WRED non ECN sessions                                |
| TABLE_afd             | (Optional) all AFD sessions   |
| TABLE_police          | (Optional) all police actions                                       |
| <i>police-key</i>     | (Optional) police actions count: xml key                            |
| TABLE_cmap            | (Optional) all cmap xml sessions                                    |
| <i>cmap-key</i>       | (Optional) Class-map name: xml key                                  |
| TABLE_action          | (Optional) all actions  |
| <i>action-key</i>     | (Optional) Actions count: xml key                                   |
| <i>nq-action-key</i>  | (Optional) Actions xcount: xml key                                  |
| <i>yqos-or-q</i>      | (Optional)  |
| <i>options</i>        | (Optional) match-first option                                       |
| <i>pmap-name-out</i>  | (Optional) Policy-map name  |
| <i>desc</i>           | (Optional) Description string                                       |
| <i>nq-desc</i>        | (Optional) Description xstring                                      |
| <i>cmap-name</i>      | (Optional) Class-map name   |
| <i>nq-xpmap-name</i>  | (Optional) Policy-map xname   |
| <i>nq-xcmap-name</i>  | (Optional) Class-map xname  |
| <i>cos-list</i>       | (Optional) List of class-of-service values                          |
| <i>qos-group-list</i> | (Optional) List of qos-group values                                 |
| <i>protocol</i>       | (Optional) protocol   |
| <i>timeout</i>        | (Optional) timeout value  |
| <i>pf-cos-list</i>    | (Optional) List of class-of-service values                          |
| <i>cc</i>             | (Optional) congestion control protocol                              |
| <i>thresh-units</i>   | (Optional) Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc |
| <i>drop-prob</i>      | (Optional) Drop Probability at Maximum Threshold value              |
| <i>iod</i>            | (Optional) IOD value  |
| <i>mtu</i>            | (Optional) MTU value  |
| <i>set-cos</i>        | (Optional) Set CoS value  |
| <i>dpp</i>            | (Optional) Dynamic Packet Prioritization Class                      |

|                           |  |
|---------------------------|--|
| <i>dctcp-threshold</i>    | (Optional) DCTCP threshold in bytes                              |
| <i>queue-limit</i>        | (Optional) Queue size for the class                              |
| <i>pfc_rx_only</i>        | (Optional) Pause receive only mode is enabled                    |
| <i>xqos-or-q</i>          | (Optional)   |
| <i>serv-pol-type</i>      | (Optional) Type of service policy referred to                    |
| <i>serv-pol-name</i>      | (Optional) Name of policy-map referred to within this policy-map |
| <i>type-spec</i>          | (Optional) Type of policy-map specified or not                   |
| <i>type-cmap-spec</i>     | (Optional) Type of class-map specified or not                    |
| <i>inner</i>              | (Optional) Specifies if tunnel or inner keywords are mentioned   |
| <i>dlb-disable</i>        | (Optional) Disable Dynamic Load Balancing                        |
| <i>cos</i>                | (Optional) IEEE 802.1Q Class of Service value                    |
| <i>exp-val-imposition</i> | (Optional) MPLS EXP value of type imposition                     |
| <i>exp-val-topmost</i>    | (Optional) MPLS EXP value of type topmost                        |
| <i>dscp</i>               | (Optional) DSCP in IP(v4) and IPv6 packets                       |
| <i>dscp-enum</i>          | (Optional)   |
| <i>prec</i>               | (Optional) Precedence in IP(v4) and IPv6 packets                 |
| <i>prec-enum</i>          | (Optional)   |
| <i>disc-class</i>         | (Optional) Discard class   |
| <i>qos-group</i>          | (Optional) Qos-group   |
| <i>tmap-from</i>          | (Optional)   |
| <i>tmap-to</i>            | (Optional)   |
| <i>tmap-name</i>          | (Optional) Table map name  |
| <i>ptmap-from</i>         | (Optional)   |
| <i>ptmap-to</i>           | (Optional)   |
| <i>ptmap-name</i>         | (Optional) Table map name  |
| <i>avg-rate-type</i>      | (Optional) Specifies if average shape rate is specified          |
| <i>rate-units</i>         | (Optional) Units of rate - bps, kbps, mbps, gbps, ms, us         |
| <i>min-rate-type</i>      | (Optional) Specifies if minimum shape rate is specified          |
| <i>min-rate-units</i>     | (Optional) Units of rate - bps, kbps, mbps, gbps, ms, us         |

|                               |   |
|-------------------------------|---|
| <i>max-rate-type</i>          | (Optional) Specifies if maximum shape rate is specified                 |
| <i>max-rate-units</i>         | (Optional) Units of rate - bps, kbps, mbps, gbps, ms, us                |
| <i>cir-rate-units</i>         | (Optional) Units of rate - bps, kbps, mbps, gbps, ms, us, pps           |
| <i>pir-rate-units</i>         | (Optional) Units of rate - bps, kbps, mbps, gbps, ms, us, pps           |
| <i>prio-level</i>             | (Optional) Priority if specified  |
| <i>qlim-param-type</i>        | (Optional) Type of parameter for qlim - cos/prec/dscp/disc class/qosgrp |
| <i>qlim-param-val</i>         | (Optional) Parameter value for qlimit                                   |
| <i>qlim-size</i>              | (Optional) Queue size for qlimit  |
| <i>size-units</i>             | (Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc    |
| <i>rdet-size-units</i>        | (Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc    |
| <i>rdet-nonecn-size-units</i> | (Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc    |
| <i>afd-size-units</i>         | (Optional) Units of queue size - bytes/kbytes/mbytes                    |
| <i>bc-size-units</i>          | (Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc    |
| <i>be-size-units</i>          | (Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc    |
| <i>qlim-enum-spec</i>         | (Optional) Whether qlimit parameter is specified in enum or not         |
| <i>rdet-mode</i>              | (Optional) Random-detect mode   |
| <i>rdet-nonecn-mode</i>       | (Optional) Random-detect non-ecn mode                                   |
| <i>rdet-agg</i>               | (Optional) Are the params for aggregate flow                            |
| <i>rdet-values</i>            | (Optional) List of class-of-service values for random-detect            |
| <i>rdet-drop-prob</i>         | (Optional) Random-detect drop probability                               |
| <i>rdet-weight</i>            | (Optional) Random-detect queue length weight                            |
| <i>rdet-cap-average</i>       | (Optional) Random-detect cap-average                                    |
| <i>rdet-ecn</i>               | (Optional) Random-detect ECN  |
| <i>rdet-burst-opt</i>         | (Optional) Random-detect burst optimized                                |
| <i>rdet-mesh-opt</i>          | (Optional) Random-detect mesh optimized                                 |
| <i>rdet-nonecn-drop-prob</i>  | (Optional) Random-detect non-ecn drop probability                       |
| <i>afd-mode</i>               | (Optional) AFD mode   |
| <i>afd-values</i>             | (Optional) List of class-of-service values for AFD                      |
| <i>afd-ecn</i>                | (Optional) AFD ECN  |

|                              |   |
|------------------------------|---|
| <i>pause</i>                 | (Optional) Pause value                          |
| <i>nq-pause</i>              | (Optional) NQ Pause value                       |
| <i>priority-group-number</i> | (Optional) Priority group value                 |
| <i>bw-units</i>              | (Optional) Bandwidth units                      |
| <i>rem-bw-units</i>          | (Optional) Remaining bandwidth units            |
| <i>rem-bw-rate</i>           | (Optional) Remaining bandwidth rate             |
| <i>agg-policer-name</i>      | (Optional) Aggregate policer name               |
| <i>cir-spec</i>              | (Optional) Is CIR keyword specified             |
| <i>bc-spec</i>               | (Optional) Is Committed Burst keyword specified |
| <i>be-spec</i>               | (Optional) Is Extended Burst keyword specified  |
| <i>cnf-col-cmap</i>          | (Optional) Conforming color class-map name      |
| <i>exc-col-cmap</i>          | (Optional) Exceeding color class-map name       |
| <i>enum-spec</i>             | (Optional) Is DSCP or PREC enum value specified |
| <i>cnf-act</i>               | (Optional) Conform action (Police)              |
| <i>exc-act</i>               | (Optional) Exceed action (Police)               |
| <i>vio-act</i>               | (Optional) Violate action (Police)              |
| <i>set-type</i>              | (Optional) Type of set in police action         |
| <i>set-val</i>               | (Optional) Value of set type in police action   |
| <i>ooo</i>                   | (Optional) Out-of-Order                         |
| <i>burst-detect-enable</i>   | (Optional) Burst detect feature is enabled      |

### Command Mode

- /exec

## show policy-map interface control-plane

```
show policy-map interface control-plane { [ module <slot-no-in> [ class <cmap-name> ] ] [ class <cmap-name>
[ module <slot-no-in> ] ] } [ __readonly__ [ <scale-factor-cmd> ] <pmap-name> [ TABLE_cmap <cmap-key>
<cmap-name-out> <opt_any_or_all> [ TABLE_match <match-key> { [ access_grp <acc_grp_name> ] [
redirect <opt_match_redirect> ] [ exception <opt_match_except> ] [ protocol <opt_match_protocol> ] } + ] [
<class-off-rate> <class-drop-rate> <class-pkts> <class-bytes> ] [ [ <set_vld_flg> ] { { cos [ inner ] <cos-val>
} | { dscp [ tunnel ] <dscp-val> } | { precedence [ tunnel1 ] <prec-val> } } ] [ <threshold> <level> ] [ [
<policer_show_flags> ] [ <cir> <opt_kbps_mbps_gbps_pps_cir> ] [ { percent <cir-perc> } ] [ <bc>
<opt_kbytes_mbytes_gbytes_bc> ] [ <pir> <opt_kbps_mbps_gbps_pps_pir> ] [ { percent1 <pir-perc> } ] [
<be> <opt_kbytes_mbytes_gbytes_be> ] ] [ TABLE_slot { <slot-no-out> { [ [ <conform-pkts> ] [ [
<conform-bytes> ] ] [ { <opt_drop_transmit_conform> } | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit
<set-dscp-val> } | { set-prec-transmit <set-prec-val> } ] [ { [ [ <exceed-pkts> ] <exceed-bytes> ] { {
<opt_drop_transmit_exceed> } | { set dscp1 dscp2 table cir-markdown-map } } } ] [ [ <violate-pkts> |
<violate-bytes> ] { { <opt_drop_transmit_violate> } | { set1 dscp3 dscp4 table1 pir-markdown-map } } } }
} ] ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information         |
| policy-map              | Show policy maps                        |
| interface               | Show service policy on interface        |
| control-plane           | command is for copp policy              |
| module                  | (Optional) module number for statistics |
| class                   | (Optional) class-name name              |
| <i>cmap-name</i>        | (Optional) Name of the class-map        |
| <i>pmap-name</i>        | (Optional) Name of the Policy-map       |
| <i>__readonly__</i>     | (Optional)                              |
| <i>scale-factor-cmd</i> | (Optional) Scale factor command         |
| TABLE_cmap              | (Optional) all cmap xml sessions        |
| <i>cmap-key</i>         | (Optional) Class-map key : XML output   |
| <i>cmap-name-out</i>    | (Optional) Name of the output class-map |
| <i>opt_any_or_all</i>   | (Optional) Enter match-any or match-all |
| TABLE_match             | (Optional) all match xml sessions       |
| <i>match-key</i>        | (Optional) Match key : XML output       |
| access_grp              | (Optional)                              |
| <i>acc_grp_name</i>     | (Optional)                              |



|                                    |  |
|------------------------------------|--|
| redirect                           | (Optional)                                       |
| <i>opt_match_redirect</i>          | (Optional) Match criteria for redirected packets |
| exception                          | (Optional)                                       |
| <i>opt_match_except</i>            | (Optional) Match criteria for exception packets  |
| protocol                           | (Optional)                                       |
| <i>opt_match_protocol</i>          | (Optional) Match criteria for protocol packets   |
| <i>set_vld_flg</i>                 | (Optional) Set valid flag                        |
| cos                                | (Optional)                                       |
| inner                              | (Optional)                                       |
| <i>cos-val</i>                     | (Optional) Set cos val                           |
| dscp                               | (Optional)                                       |
| tunnel                             | (Optional)                                       |
| <i>dscp-val</i>                    | (Optional) Set dscp val                          |
| precedence                         | (Optional)                                       |
| tunnel1                            | (Optional)                                       |
| <i>prec-val</i>                    | (Optional) Set prec val                          |
| <i>policer_show_flags</i>          | (Optional) Policer show flags                    |
| <i>level</i>                       | (Optional) syslog severity level                 |
| <i>opt_kbps_mbps_gbps_pps_cir</i>  | (Optional) Units                                 |
| percent                            | (Optional)                                       |
| <i>opt_kbps_mbps_gbps_pps_pir</i>  | (Optional) Units                                 |
| percent1                           | (Optional)                                       |
| <i>opt_kbytes_mbytes_gbytes_bc</i> | (Optional) Units                                 |
| <i>opt_kbytes_mbytes_gbytes_be</i> | (Optional) Units                                 |
| TABLE_slot                         | (Optional) all slot-num : XML output             |
| <i>slot-no-in</i>                  | (Optional) input slot no                         |
| <i>slot-no-out</i>                 | (Optional) output slot no                        |
| <i>opt_drop_transmit_conform</i>   | (Optional) Set the action                        |
| set-cos-transmit                   | (Optional)                                       |

|                                  |                                    |
|----------------------------------|------------------------------------|
| <i>set-cos-val</i>               | (Optional) Conform action cos val  |
| set-dscp-transmit                | (Optional)                         |
| <i>set-dscp-val</i>              | (Optional) Conform action dscp val |
| set-prec-transmit                | (Optional)                         |
| <i>set-prec-val</i>              | (Optional) Conform action prec val |
| <i>opt_drop_transmit_exceed</i>  | (Optional) Set the action          |
| set                              | (Optional)                         |
| dscp1                            | (Optional)                         |
| dscp2                            | (Optional)                         |
| table                            | (Optional)                         |
| cir-markdown-map                 | (Optional)                         |
| <i>opt_drop_transmit_violate</i> | (Optional) Set the action          |
| set1                             | (Optional)                         |
| dscp3                            | (Optional)                         |
| dscp4                            | (Optional)                         |
| table1                           | (Optional)                         |
| pir-markdown-map                 | (Optional)                         |

**Command Mode**

- /exec

## show policy-map system

```
show policy-map system [ type { network-qos | qos [ input2 ] | queuing [ input | output ] } ] [ __readonly__
{ [ <display-all> ] [ TABLE_xpmap <xpmap-name> [ <desc> ] [ TABLE_xcmap <xcmap-name> [
TABLE_xaction <xaction-key> [ <cos-list> ] [ <qos-group-list> ] [ <protocol> ] [ <pause> <timeout>
<size-in-bytes> <xoff-bytes> <xon-bytes> ] [ <pfc-cos-list> ] [ <pfc_rx_only> ] [ <cc> ] [ <thresh-units> ] [
<min-thresh> ] [ <max-thresh> ] [ <drop-prob> ] [ <iod> ] [ <mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctcp-threshold>
] [ <queue-limit> ] [ <stat-en-dis-enum> ] ] ] ] [ TABLE_pmap <pmap-key> <pmap-inner-outer> <in-or-out>
<yqos-or-q> [ <options> ] <pmap-name> [ <stat-status-enum> ] [ TABLE_cmap <cmap-key> [ <xqos-or-q>
] <match-opts> <cmap-name> [ <slot-num> ] [ <class-pkts> ] [ <agg-forward> ] [ TABLE_match <match-key>
[ <not> ] [ <inner> ] [ <cos-list> ] [ <dscp-list> ] [ <exp-value-top> ] [ <protocol-name> ] [
<match-cmap-xqos-or-q> ] [ <match-cmap-opts> ] [ <match-cmap-name> ] ] ] [ TABLE_action <action-key>
[ <set-inner> ] [ <cos> ] [ <qos-group> ] [ <serv-pol-type> ] [ <serv-pol-name> ] [ <serv-pol-return-inout> ]
[ <rate-units> ] [ <shape-rate> ] [ <min-rate-type> ] [ <min-rate-units> ] [ <shape-min-rate> ] [ <max-rate-type>
] [ <max-rate-units> ] [ <shape-max-rate> ] [ <prio-level> ] [ <qlim-param-type> ] [ <qlim-param-val> ] [
<size-units> ] [ <qlim-size> ] [ <qlim-enum-spec> ] [ <bw-units> ] [ <bw-rate> ] [ <rem-bw-units> ] [
<rem-bw-rate> ] [ <rise-threshold-units> ] [ <fall-threshold-units> ] [ <rdet-agg> ] [ <rdet-mode> ] [
<rdet-burst-opt> ] [ <rdet-mesh-opt> ] [ TABLE_rdet <rdet-key> [ <rdet-values> ] [ <rdet-min-thresh> ] [
<rdet-size-units> ] [ <rdet-max-thresh> ] [ <rdet-drop-prob> ] [ <rdet-weight> ] [ <rdet-cap-average> ] ] [
<rdet-ecn> ] [ TABLE_afd <afd-key> [ <afd-values> ] [ <afd-queue-desired> ] [ <afd-size-units> ] [ <afd-ecn>
] ] [ <pause> <size-in-bytes> <xoff-bytes> <xon-bytes> ] ] ] ] }
```

### Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information                |
| policy-map         | Show policy maps                               |
| type               | (Optional) Type of the policy-map              |
| system             | Active policy in the system                    |
| network-qos        | (Optional) type network-qos                    |
| qos                | (Optional) type qos                            |
| input2             | (Optional) input policy                        |
| queuing            | (Optional) type queuing                        |
| input              | (Optional) input policy                        |
| output             | (Optional) output policy                       |
| __readonly__       | (Optional)                                     |
| <i>display-all</i> | (Optional) Display all network-qos policy-maps |
| TABLE_xpmap        | (Optional) all xpmap xml sessions              |
| <i>xpmap-name</i>  | (Optional) Policy-map name                     |
| TABLE_xcmap        | (Optional) all xcmap xml sessions              |

|                         |   |
|-------------------------|---|
| <i>xcmap-name</i>       | (Optional) Class-map name   |
| TABLE_xaction           | (Optional) all network-qos actions                                  |
| <i>xaction-key</i>      | (Optional) network-qos actions count: xml key                       |
| TABLE_pmap              | (Optional) all pmap xml sessions                                    |
| <i>pmap-key</i>         | (Optional) Policy-map name: xml key                                 |
| TABLE_cmap              | (Optional) all cmap xml sessions                                    |
| <i>cmap-key</i>         | (Optional) Class-map name: xml key                                  |
| TABLE_action            | (Optional) all actions  |
| <i>action-key</i>       | (Optional) Actions count: xml key                                   |
| TABLE_match             | (Optional) all match xml sessions                                   |
| <i>match-key</i>        | (Optional) match count: xml key                                     |
| TABLE_rdet              | (Optional) all WRED sessions  |
| TABLE_afd               | (Optional) all AFD sessions   |
| <i>stat-en-dis-enum</i> | (Optional)  |
| <i>in-or-out</i>        | (Optional)  |
| <i>yqos-or-q</i>        | (Optional)  |
| <i>stat-status-enum</i> | (Optional)  |
| <i>desc</i>             | (Optional) Description string                                       |
| <i>thresh-units</i>     | (Optional) Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc |
| <i>drop-prob</i>        | (Optional) Drop Probability at Maximum Threshold value              |
| <i>pause</i>            | (Optional) Pause value  |
| <i>pfc-cos-list</i>     | (Optional) List of class-of-service values                          |
| <i>pfc_rx_only</i>      | (Optional) Pause receive only mode enabled                          |
| <i>timeout</i>          | (Optional) timeout value  |
| <i>cc</i>               | (Optional) congestion control protocol                              |
| <i>iod</i>              | (Optional) IOD value  |
| <i>mtu</i>              | (Optional) MTU value  |
| <i>set-cos</i>          | (Optional) Set CoS value  |
| <i>dpp</i>              | (Optional) Dynamic Packet Prioritization Class                      |

|                              |  |
|------------------------------|--|
| <i>queue-limit</i>           | (Optional) Queue size for the class                              |
| <i>protocol-name</i>         | (Optional) protocol name   |
| <i>protocol</i>              | (Optional) protocol  |
| <i>dctcp-threshold</i>       | (Optional) DCTCP threshold in bytes                              |
| <i>cos-list</i>              | (Optional) List of class-of-service values                       |
| <i>dscp-list</i>             | (Optional) List of DSCP values                                   |
| <i>exp-value-top</i>         | (Optional) List of MPLS exp values                               |
| <i>qos-group</i>             | (Optional) QoS Group Value                                       |
| <i>qos-group-list</i>        | (Optional) List of qos-group values                              |
| <i>options</i>               | (Optional) match-first option                                    |
| <i>pmap-name</i>             | (Optional) Policy-map name                                       |
| <i>pmap-inner-outer</i>      | (Optional) Inner or Outer policy-map                             |
| <i>serv-pol-return-inout</i> | (Optional) Inner or Outer policy-map                             |
| <i>cmap-name</i>             | (Optional) Class-map name  |
| <i>xqos-or-q</i>             | (Optional)   |
| <i>match-opts</i>            | (Optional) Type of match in class-map                            |
| <i>match-cmap-xqos-or-q</i>  | (Optional)   |
| <i>match-cmap-opts</i>       | (Optional) Type of match in class-map                            |
| <i>not</i>                   | (Optional) Negate this match result                              |
| <i>inner</i>                 | (Optional) Specifies if tunnel or inner keywords are mentioned   |
| <i>cos-list</i>              | (Optional) List of class-of-service values                       |
| <i>match-cmap-name</i>       | (Optional) class-map name  |
| <i>serv-pol-type</i>         | (Optional) Type of service policy referred to                    |
| <i>serv-pol-name</i>         | (Optional) Name of policy-map referred to within this policy-map |
| <i>set-inner</i>             | (Optional) Specifies if tunnel or inner keywords are mentioned   |
| <i>cos</i>                   | (Optional) IEEE 802.1Q Class of Service value                    |
| <i>rate-units</i>            | (Optional) Units of rate - bps, kbps, mbps, gbps, ms, us         |
| <i>min-rate-type</i>         | (Optional) Specifies if minimum shape rate is specified          |
| <i>min-rate-units</i>        | (Optional) Units of rate - bps, kbps, mbps, gbps, ms, us         |

|                         |   |
|-------------------------|---|
| <i>max-rate-type</i>    | (Optional) Specifies if maximum shape rate is specified                 |
| <i>max-rate-units</i>   | (Optional) Units of rate - bps, kbps, mbps, gbps, ms, us                |
| <i>prio-level</i>       | (Optional) Priority if specified  |
| <i>qlim-param-type</i>  | (Optional) Type of parameter for qlim - cos/prec/dscp/disc class/qosgrp |
| <i>qlim-param-val</i>   | (Optional) Parameter value for qlimit                                   |
| <i>qlim-size</i>        | (Optional) Queue size for qlimit  |
| <i>size-units</i>       | (Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc    |
| <i>qlim-enum-spec</i>   | (Optional) Whether qlimit parameter is specified in enum or not         |
| <i>rdet-size-units</i>  | (Optional) Units of queue size - pkts/bytes/kbytes/mbytes/ms/us/perc    |
| <i>afd-size-units</i>   | (Optional) Units of queue size - bytes/kbytes/mbytes                    |
| <i>bw-units</i>         | (Optional) Bandwidth units  |
| <i>rem-bw-units</i>     | (Optional) Remaining bandwidth units                                    |
| <i>rem-bw-rate</i>      | (Optional) Remaining bandwidth rate                                     |
| <i>rdet-values</i>      | (Optional) List of class-of-service values for random-detect            |
| <i>rdet-agg</i>         | (Optional) Are the params for aggregate flow                            |
| <i>rdet-mode</i>        | (Optional) Random-detect mode   |
| <i>rdet-drop-prob</i>   | (Optional) Random-detect drop probability                               |
| <i>rdet-weight</i>      | (Optional) Random-detect queue length weight                            |
| <i>rdet-cap-average</i> | (Optional) Random-detect cap-average                                    |
| <i>rdet-ecn</i>         | (Optional) Random-detect ECN  |
| <i>rdet-burst-opt</i>   | (Optional) Random-detect burst optimized                                |
| <i>rdet-mesh-opt</i>    | (Optional) Random-detect mesh optimized                                 |
| <i>afd-values</i>       | (Optional) List of class-of-service values for afd                      |
| <i>afd-ecn</i>          | (Optional) AFD ECN  |
| <i>pause</i>            | (Optional) Pause value  |
| <i>slot-num</i>         | (Optional) the slot number  |
| <i>agg-forward</i>      | (Optional) prints out aggregate forward                                 |

**Command Mode**

- /exec

## show policy-map type control-plane

```
show policy-map type control-plane [ expand ] [ { name <pmap-name> } ] [ __readonly__ [ { TABLE_pmap
<pmap-name1> [ { TABLE_cmap <cmap-name> [ <opt_any_or_all> ] [ TABLE_match [ <match_key> } {
[ access_grp <acc_grp_name> + ] [ redirect <opt_match_redirect> ] [ exception <opt_match_except> + ] [
protocol <opt_match_protocol> } ] [ { TABLE_set_action <set_vld_flg> { { cos [ inner ] <cos-val> } | {
dscp [ tunnel ] <dscp-val> } | { precedence [ tunnel1 ] <prec-val> } } } ] [ <threshold> <level> ] [ [
<policer_show_flags> ] [ <cir> <opt_kbps_mbps_gbps_pps_cir> ] [ percent <cir-perc> ] [ <pir>
<opt_kbps_mbps_gbps_pps_pir> ] [ percent1 <pir-perc> ] [ <bc> <opt_kbytes_mbytes_gbytes_bc> ] [ <be>
<opt_kbytes_mbytes_gbytes_be> ] [ { <opt_drop_transmit_conform> } | { set-cos-transmit <set-cos-val> }
| { set-dscp-transmit <set-dscp-val> } | { set-prec-transmit <set-prec-val> } ] [ { <opt_drop_transmit_exceed>
} | { set dscp1 dscp2 table cir-markdown-map } ] [ { <opt_drop_transmit_violate> } | { set1 dscp3 dscp4
table1 pir-markdown-map } ] ] ] ] ] ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information                             |
| policy-map                | Show policy maps  |
| type                      | Type of the policy-map                                      |
| control-plane             | command is for copp policy                                  |
| expand                    | (Optional) Display the match-criterias along with class-map |
| name                      | (Optional) policy-map name                                  |
| <i>pmap-name</i>          | (Optional) Name of the Policy-map                           |
| <i>__readonly__</i>       | (Optional)  |
| TABLE_pmap                | (Optional) Table of policy-map                              |
| <i>pmap-name1</i>         | (Optional) Name of the Policy-map                           |
| TABLE_cmap                | (Optional) Table of class-map                               |
| <i>cmap-name</i>          | (Optional) Name of the class-map                            |
| <i>opt_any_or_all</i>     | (Optional) Enter match-any or match-all                     |
| TABLE_match               | (Optional) Table of match statement                         |
| <i>match_key</i>          | (Optional) Match key : XML output                           |
| access_grp                | (Optional)  |
| <i>acc_grp_name</i>       | (Optional)  |
| redirect                  | (Optional)  |
| <i>opt_match_redirect</i> | (Optional) Match criteria for redirected packets            |

|                                    |   |
|------------------------------------|---|
| exception                          | (Optional)                                      |
| <i>opt_match_except</i>            | (Optional) Match criteria for exception packets |
| protocol                           | (Optional)                                      |
| <i>opt_match_protocol</i>          | (Optional) Match criteria for protocol packets  |
| TABLE_set_action                   | (Optional) Table of set action                  |
| <i>set_vld_flg</i>                 | (Optional) Set valid flag                       |
| <i>level</i>                       | (Optional) syslog severity level                |
| <i>opt_kbps_mbps_gbps_pps_cir</i>  | (Optional) Units                                |
| percent                            | (Optional)                                      |
| <i>opt_kbps_mbps_gbps_pps_pir</i>  | (Optional) Units                                |
| percent1                           | (Optional)                                      |
| <i>opt_kbytes_mbytes_gbytes_bc</i> | (Optional) Units                                |
| <i>opt_kbytes_mbytes_gbytes_be</i> | (Optional) Units                                |
| <i>opt_drop_transmit_conform</i>   | (Optional) Set the action                       |
| set-cos-transmit                   | (Optional)                                      |
| <i>set-cos-val</i>                 | (Optional) Conform action cos val               |
| set-dscp-transmit                  | (Optional)                                      |
| <i>set-dscp-val</i>                | (Optional) Conform action dscp val              |
| set-prec-transmit                  | (Optional)                                      |
| <i>set-prec-val</i>                | (Optional) Conform action prec val              |
| <i>opt_drop_transmit_exceed</i>    | (Optional) Set the action                       |
| set                                | (Optional)                                      |
| dscp1                              | (Optional)                                      |
| dscp2                              | (Optional)                                      |
| table                              | (Optional)                                      |
| cir-markdown-map                   | (Optional)                                      |
| <i>opt_drop_transmit_violate</i>   | (Optional) Set the action                       |
| set1                               | (Optional)                                      |
| dscp3                              | (Optional)                                      |



|                           |                               |
|---------------------------|-------------------------------|
| dscp4                     | (Optional)                    |
| table1                    | (Optional)                    |
| pir-markdown-map          | (Optional)                    |
| cos                       | (Optional)                    |
| inner                     | (Optional)                    |
| <i>cos-val</i>            | (Optional) Set cos val        |
| dscp                      | (Optional)                    |
| tunnel                    | (Optional)                    |
| <i>dscp-val</i>           | (Optional) Set dscp val       |
| precedence                | (Optional)                    |
| tunnel1                   | (Optional)                    |
| <i>prec-val</i>           | (Optional) Set prec val       |
| <i>policer_show_flags</i> | (Optional) Policer show flags |

#### Command Mode

- /exec

## show policy-map type network-qos

```
show policy-map type network-qos [ <pmap-name-nq> ] [ __readonly__ { [ <display-all> ] [ TABLE_xpmap
<xpmap-name> [ <desc> ] [ TABLE_xcmap <xcmap-name> [ TABLE_action <action-key> [ <cos-list> ] [
<qos-group-list> ] [ <protocol> ] [ <pause> <timeout> <size-in-bytes> <xoff-bytes> <xon-bytes> ] [
<pfc-cos-list> ] [ <pfc_rx_only> ] [ <cc> ] [ <thresh-units> ] [ <min-thresh> ] [ <max-thresh> ] [ <drop-prob>
] [ <iod> ] [ <mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctcp-threshold> ] [ <queue-limit> ] ] ] ] }
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                                     |
| policy-map            | Show policy maps  |
| type                  | Type of the policy-map  |
| <i>pmap-name-nq</i>   | (Optional) Policy-map name  |
| network-qos           | type network-qos  |
| <i>__readonly__</i>   | (Optional)  |
| <i>display-all</i>    | (Optional) Display all network-qos policy-maps                      |
| TABLE_xpmap           | (Optional) all xpmap xml sessions                                   |
| <i>xpmap-name</i>     | (Optional) Policy-map name  |
| TABLE_xcmap           | (Optional) all xcmap xml sessions                                   |
| <i>xcmap-name</i>     | (Optional) Class-map name   |
| TABLE_action          | (Optional) all actions  |
| <i>action-key</i>     | (Optional) Actions count: xml key                                   |
| <i>desc</i>           | (Optional) Description string                                       |
| <i>cos-list</i>       | (Optional) List of class-of-service values                          |
| <i>qos-group-list</i> | (Optional) List of qos-group values                                 |
| <i>protocol</i>       | (Optional) protocol   |
| <i>pause</i>          | (Optional) Pause value  |
| <i>timeout</i>        | (Optional) timeout value  |
| <i>pfc-cos-list</i>   | (Optional) List of class-of-service values                          |
| <i>cc</i>             | (Optional) congestion control protocol                              |
| <i>thresh-units</i>   | (Optional) Units of threshold - pkts/bytes/kbytes/mbytes/ms/us/perc |
| <i>drop-prob</i>      | (Optional) Drop Probability at Maximum Threshold value              |

|                        |  |
|------------------------|--|
| <i>iod</i>             | (Optional) IOD value                           |
| <i>mtu</i>             | (Optional) MTU value                           |
| <i>set-cos</i>         | (Optional) Set CoS value                       |
| <i>dpp</i>             | (Optional) Dynamic Packet Prioritization Class |
| <i>dctcp-threshold</i> | (Optional) DCTCP threshold in bytes            |
| <i>queue-limit</i>     | (Optional) Queue size for the class            |
| <i>pfc_rx_only</i>     | (Optional) Pause receive only mode is enabled  |

**Command Mode**

- /exec

# show port-channel capacity

show port-channel capacity [ *\_\_readonly\_\_* <total> <used> <free> <percentage\_used> ]

## Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information        |
| port-channel           | Show port-channel information          |
| capacity               | Capacity information                   |
| <i>__readonly__</i>    | (Optional)                             |
| <i>total</i>           | (Optional) Total resource              |
| <i>used</i>            | (Optional) Used resource               |
| <i>free</i>            | (Optional) Free resource               |
| <i>percentage_used</i> | (Optional) Used resource in percentage |

## Command Mode

- /exec

# show port-channel compatibility-parameters

```
show port-channel compatibility-parameters [ __readonly__ { TABLE_compatibility <parameter> <description> } + ]
```

## Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information             |
| port-channel             | Show port-channel information               |
| compatibility-parameters | Show compatibility parameters               |
| __readonly__             | (Optional)                                  |
| TABLE_compatibility      | (Optional) Port-channel compatibility table |
| <i>parameter</i>         | (Optional) Compatibility parameter          |
| <i>description</i>       | (Optional) Parameter description            |

## Command Mode

- /exec

## show port-channel database

```
show port-channel database [ interface <if0> ] [ __readonly__ TABLE_interface <interface>
<last-membership-update> <total-ports> <total-up-ports> [ <first_operational-port> ] <age-of-channel> [
<time-since-last-bundle> ] [ <last-bundled-member> ] [ <time-since-last-unbundle> ] [
<last-unbundled-member> ] [ { TABLE_member <port> <mode> <port-status> } ] [ <protocol> ] ]
```

### Syntax Description

|                                 |  |
|---------------------------------|--|
| show                            | Show running system information            |
| port-channel                    | Show port-channel information              |
| database                        | Show port-channel database                 |
| interface                       | (Optional) Specify a port-channel          |
| <i>if0</i>                      | (Optional)                                 |
| <i>__readonly__</i>             | (Optional)                                 |
| TABLE_interface                 | (Optional) Port-channel table              |
| <i>interface</i>                | (Optional) Port channel                    |
| <i>mode</i>                     | (Optional) channel-group mode              |
| <i>last-membership-update</i>   | (Optional) Last membership update          |
| <i>total-ports</i>              | (Optional) Total number of member ports    |
| <i>total-up-ports</i>           | (Optional) Total number of UP member ports |
| <i>first_operational-port</i>   | (Optional) First operational port          |
| TABLE_member                    | (Optional) Member ports info               |
| <i>port</i>                     | (Optional) Member port                     |
| <i>port-status</i>              | (Optional) Member port status              |
| <i>age-of-channel</i>           | (Optional) Age of port channel             |
| <i>time-since-last-bundle</i>   | (Optional) Time since last port bundled    |
| <i>last-bundled-member</i>      | (Optional) Last bundled member port        |
| <i>time-since-last-unbundle</i> | (Optional) Time since last port un-bundled |
| <i>last-unbundled-member</i>    | (Optional) Last unbundled member port      |
| <i>protocol</i>                 | (Optional) Port channel protocol           |

### Command Mode

- /exec

# show port-channel fast-convergence

show port-channel fast-convergence [ \_\_readonly\_\_ { port-channel fast-convergence <fastconvergence> } ]

## Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information                         |
| port-channel           | Configure port channel parameters                       |
| fast-convergence       | Show port-channel fast-convergence status               |
| __readonly__           | (Optional)  |
| <i>fastconvergence</i> | (Optional) port channel fast convergence enable/disable |

## Command Mode

- /exec



# show port-channel load-balance

```
show port-channel load-balance [ [ module <module> ] | { fex { all } } ] [ __readonly__ [ <sys-cfg> ] +
<sys-cfg-sel> [ { <module-cfg> } ] + <non-ip-val> <non-ip-sel> <ipv4-val> <ipv4-sel> [ <ipv6-val> ] [
<ipv4-encap> ] { TABLE_mod_configs [ <mod-number> ] <mod-non-ip-val> <mod-non-ip-sel>
<mod-ipv4-val> <mod-ipv4-sel> [ <mod-ipv4-encap> ] } ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                    |
| port-channel          | Show port-channel information                      |
| load-balance          | Show port-channel load balance                     |
| module                | (Optional) slot                                    |
| <i>module</i>         | (Optional) Specify a module number                 |
| fex                   | FEX devices  |
| all                   | Display all configured FEX port-channel LB         |
| <u>__readonly__</u>   | (Optional)   |
| <i>sys-cfg</i>        | (Optional) system wide load balance configuraton   |
| <i>sys-cfg-sel</i>    | (Optional) system config                           |
| <i>module-cfg</i>     | (Optional) per module load balance configuraton    |
| <i>non-ip-val</i>     | (Optional) load balance setting for non-ip traffic |
| <i>non-ip-sel</i>     | (Optional) non ip select                           |
| <i>ipv4-val</i>       | (Optional) load balance setting for ipv4 traffic   |
| <i>ipv4-sel</i>       | (Optional) ip select                               |
| <i>ipv6-val</i>       | (Optional) load balance setting for ipv6 traffic   |
| <i>ipv4-encap</i>     | (Optional) encapsulation                           |
| TABLE_mod_configs     | (Optional) module configurations                   |
| <i>mod-number</i>     | (Optional) module number                           |
| <i>mod-non-ip-val</i> | (Optional) load balance setting for non-ip traffic |
| <i>mod-non-ip-sel</i> | (Optional) non ip select                           |
| <i>mod-ipv4-val</i>   | (Optional) load balance setting for ipv4 traffic   |
| <i>mod-ipv4-sel</i>   | (Optional) ip select                               |

|                       |                          |
|-----------------------|--------------------------|
| <i>mod-ipv4-encap</i> | (Optional) encapsulation |
|-----------------------|--------------------------|

**Command Mode**

- /exec

# show port-channel load-balance forwarding-path1 interface src-interface

```
show port-channel load-balance forwarding-path1 interface <ch-id> src-interface <src-if> { vlan <vlan-id> |
src-mac <src-mac> | dst-mac <dst-mac> | src-ip <src-ip> | dst-ip <dst-ip> | src-ipv6 <src-ipv6> | dst-ipv6
<dst-ipv6> | l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> | ether-type <ethertype> | ip-prot <prot> }
+ [ __readonly__ { loadbalance-algorithm <algorithm> } { outgoing-port-id <port> } ]
```

## Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information            |
| port-channel       | Configure port channel parameters          |
| load-balance       | Show port-channel load balance             |
| forwarding-path1   | Packet forwarding information              |
| interface          | Specify a port-channel number              |
| <i>ch-id</i>       | Port-Channel name                          |
| vlan               | VLAN - for dot1Q tagged packets at ingress |
| <i>vlan-id</i>     | VLAN ID                                    |
| src-mac            | Source MAC Address                         |
| <i>src-mac</i>     | Source MAC address                         |
| dst-mac            | Destination MAC Address                    |
| <i>dst-mac</i>     | Destination MAC address                    |
| src-ip             | Source IP address                          |
| <i>src-ip</i>      | Source IP address in format i.i.i.i        |
| dst-ip             | Destination IPv4 address                   |
| <i>dst-ip</i>      | Destination IP address in format i.i.i.i   |
| src-ipv6           | Source IPv6 address                        |
| dst-ipv6           | Destination IPv6 address                   |
| l4-src-port        | Source Port                                |
| <i>l4-src-port</i> | Source L4 port                             |
| l4-dst-port        | Destination Port                           |
| <i>l4-dst-port</i> | Destination L4 port                        |

|                       |   |
|-----------------------|---|
| ether-type            | Ethernet Type   |
| <i>ethertype</i>      | Ethernet Type   |
| src-interface         | Optional source interface (physical switch port only) |
| <i>src-if</i>         | Interface name  |
| ip-proto              | IP v4/v6 Protocol                                     |
| <i>prot</i>           | IP Protocol   |
| __readonly__          | (Optional)  |
| loadbalance-algorithm | (Optional) load balance algorithm                     |
| <i>algorithm</i>      | (Optional) algorithm                                  |
| outgoing-port-id      | (Optional) outgoing port-id                           |
| <i>port</i>           | (Optional) port                                       |

**Command Mode**

- /exec

# show port-channel load-balance hardware forwarding-path interface source

```
show port-channel load-balance hardware forwarding-path { interface <ch-id> | hgig } { source-interface <if-id> } { vlan <vlan-id> | src-mac <src-mac> | dst-mac <dst-mac> | src-ip <src-ip> | dst-ip <dst-ip> | src-ipv6 <src-ipv6> | dst-ipv6 <dst-ipv6> | l4-src-port <l4-src-port> | l4-dst-port <l4-dst-port> | ethertype <ethertype> | protocol <prot> } + [ module <module> | fex <fex-range> | hgig-tgid <tgid> ] [ __readonly__ { loadbalance-algorithm <algorithm> } { outgoing-port-id <port> } ]
```

## Syntax Description

|                  |  |
|------------------|--|
| show             | Show running system information                |
| port-channel     | Configure port channel parameters              |
| load-balance     | Show port-channel load balance                 |
| hardware         | ASIC hardware based information                |
| forwarding-path  | Packet forwarding information                  |
| interface        | Specify a port-channel number                  |
| <i>ch-id</i>     | Port-Channel name                              |
| hgig             | Higig hashing result (only with RTAG7)         |
| source-interface | Source interface - Required paramter           |
| <i>if-id</i>     | Interface name                                 |
| vlan             | VLAN of the ingress packet i.e. when available |
| <i>vlan-id</i>   |  |
| src-mac          | Source MAC Address                             |
| <i>src-mac</i>   | Source MAC address                             |
| dst-mac          | Destination MAC Address                        |
| <i>dst-mac</i>   | Destination MAC address                        |
| src-ip           | Source IPv4 address                            |
| <i>src-ip</i>    | Source IP address in format i.i.i.i            |
| dst-ip           | Destination IPv4 address                       |
| <i>dst-ip</i>    | Destination IP address in format i.i.i.i       |
| src-ipv6         | Source IPv6 address                            |
| dst-ipv6         | Destination IPv6 address                       |

|                       |                                   |
|-----------------------|-----------------------------------|
| l4-src-port           | Source L4 port                    |
| <i>l4-src-port</i>    | Source L4 port                    |
| l4-dst-port           | Destination l4 port               |
| <i>l4-dst-port</i>    | Destination L4 port               |
| ethertype             | Ethertype of the packet stream    |
| <i>ethertype</i>      |                                   |
| protocol              | Protocol                          |
| <i>prot</i>           |                                   |
| module                | (Optional) Module #               |
| <i>module</i>         | (Optional)                        |
| fex                   | (Optional) FEX devices            |
| <i>fex-range</i>      | (Optional) FEX device range       |
| hgig-tgid             | (Optional) Hgig #                 |
| <i>tgid</i>           | (Optional)                        |
| __readonly__          | (Optional)                        |
| loadbalance-algorithm | (Optional) load balance algorithm |
| <i>algorithm</i>      | (Optional) load balance algorithm |
| outgoing-port-id      | (Optional) outgoing port-id       |
| <i>port</i>           | (Optional) outgoing port-id       |

**Command Mode**

- /exec

## show port-channel rbh-distribution

```
show port-channel rbh-distribution [ interface <if0> ] [ __readonly__ TABLE_channel <chan-id> <port> {
<rbh> } + <num_of_buckets> ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| port-channel          | Show port-channel information               |
| rbh-distribution      | Show RBH distribution for member ports      |
| interface             | (Optional) Specify a port-channel interface |
| <i>if0</i>            | (Optional)                                  |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_channel         | (Optional) Port-channel table               |
| <i>chan-id</i>        | (Optional) Channel ID                       |
| <i>port</i>           | (Optional) Member port                      |
| <i>num_of_buckets</i> | (Optional) Channel ID                       |
| <i>rbh</i>            | (Optional) Channel ID                       |

### Command Mode

- /exec

# show port-channel scale-fanout

show port-channel scale-fanout [ \_\_readonly\_\_ { port-channel high-density <scalefanout> } ]

## Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information  |
| port-channel       | Configure port channel parameters  |
| scale-fanout       | Enable/disable port-channel scale-fanout when ports span more than 16 ASIC units |
| __readonly__       | (Optional)   |
| high-density       | (Optional) port channel high density   |
| <i>scalefanout</i> | (Optional) port channel scale fanout enable/disable                              |

## Command Mode

- /exec



# show port-channel summary

```
show port-channel summary [ interface <if0> | controller ] [ __readonly__ TABLE_channel <group>
<port-channel> <layer> <status> <type> <prtcl> [ { TABLE_member <port> <port-status> } ] ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                     |
| port-channel        | Show port-channel information                       |
| summary             | Show port-channel summary                           |
| interface           | (Optional) Specify a port-channel                   |
| <i>if0</i>          | (Optional)  |
| controller          | (Optional) Show controller configured port-channels |
| <i>__readonly__</i> | (Optional)  |
| TABLE_channel       | (Optional) Port-channel table                       |
| <i>group</i>        | (Optional) Channel group number                     |
| <i>port-channel</i> | (Optional) Port channel                             |
| <i>type</i>         | (Optional) Channel type                             |
| <i>prtcl</i>        | (Optional) Channel protocol                         |
| <i>status</i>       | (Optional) Channel status                           |
| <i>layer</i>        | (Optional) Channel layer info                       |
| TABLE_member        | (Optional) Member table                             |
| <i>port</i>         | (Optional) Member port                              |
| <i>port-status</i>  | (Optional) Member port status                       |

## Command Mode

- /exec

# show port-channel traffic

```
show port-channel traffic [ interface <if0> ] [ __readonly__ TABLE_channel <chanId> <port> <rx-ucst>
<tx-ucst> <rx-mcst> <tx-mcst> <rx-bcst> <tx-bcst> ]
```

## Syntax Description

|                |                                      |
|----------------|--------------------------------------|
| show           | Show running system information      |
| port-channel   | Show port-channel information        |
| traffic        | Show port-channel traffic statistics |
| __readonly__   | (Optional)                           |
| interface      | (Optional) Specify a port-channel    |
| <i>if0</i>     | (Optional)                           |
| TABLE_channel  | (Optional) Port-channel table        |
| <i>chanId</i>  | (Optional) Channel ID                |
| <i>port</i>    | (Optional) Member port               |
| <i>rx-ucst</i> | (Optional) Received unicast          |
| <i>tx-ucst</i> | (Optional) Transmitted unicast       |
| <i>rx-mcst</i> | (Optional) Received multicast        |
| <i>tx-mcst</i> | (Optional) Transmitted multicast     |
| <i>rx-bcst</i> | (Optional) Received broadcast        |
| <i>tx-bcst</i> | (Optional) Transmitted broadcast     |

## Command Mode

- /exec

# show port-channel usage

```
show port-channel usage [ __readonly__ <total-channel-number-used> { <used-range-low> [ <used-range-hi> ] } + { <unused-range-low> [ <unused-range-hi> ] } + ]
```

## Syntax Description

|                                  |   |
|----------------------------------|---|
| show                             | Show running system information               |
| port-channel                     | Show port-channel information                 |
| usage                            | Show port-channel number usage                |
| <i>__readonly__</i>              | (Optional)                                    |
| <i>total-channel-number-used</i> | (Optional) Total used number of port-channels |
| <i>used-range-low</i>            | (Optional) Used range low end value           |
| <i>used-range-hi</i>             | (Optional) Used range high end value          |
| <i>unused-range-low</i>          | (Optional) Un-used range low end value        |
| <i>unused-range-hi</i>           | (Optional) Un-used range high end value       |

## Command Mode

- /exec

# show port-license

```
show port-license [ __readonly__ <consumed_port_licenses> [ TABLE_portlicense <interface> <cookie>
<port_activation_license> ] ]
```

## Syntax Description

|                                |                                   |
|--------------------------------|-----------------------------------|
| show                           | Show running system information   |
| port-license                   | Show port license information     |
| <i>__readonly__</i>            | (Optional)                        |
| <i>consumed_port_licenses</i>  | (Optional) Consumed port licenses |
| TABLE_portlicense              | (Optional) port and licenses      |
| <i>interface</i>               | (Optional) interface name         |
| <i>cookie</i>                  | (Optional) cookie                 |
| <i>port_activation_license</i> | (Optional) license state          |

## Command Mode

- /exec

# show port-profile

```
show port-profile [ name <all_profile_name> ] [ __readonly__ TABLE_port_profile_all <profile_name> [
<profile_id> ] <type> [ <desc> ] [ <status> ] [ <max_ports> ] [ <min_ports> ] [ <inherit> ] [ <profile_cfg> ]
+ [ <cmd_depth> ] [ <cmd_key> ] [ <parent_seqno> ] [ <cmd_seqno> ] [ <cmd_attr> ] [ <form_type> ] [
<cmd_mask> ] [ <shadow_cmd> ] [ <cmd_flags> ] [ <eval_cfg> ] + [ <intf> ] + [ <cap_l3> ] [ <cap_iscsi>
] [ <ctrl_sgid> ] [ <pkt_sgid> ] [ <sys_vlans> ] [ <portgrp> ] [ <pprole> ] [ <port_binding> ] ]
```

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information          |
| port-profile            | Show port-profile                        |
| name                    | (Optional) port-profile name             |
| <i>all_profile_name</i> | (Optional) Enter the name of the profile |
| <i>__readonly__</i>     | (Optional)                               |
| TABLE_port_profile_all  | (Optional)                               |
| <i>profile_name</i>     | (Optional)                               |
| <i>profile_id</i>       | (Optional)                               |
| <i>type</i>             | (Optional)                               |
| <i>desc</i>             | (Optional)                               |
| <i>status</i>           | (Optional)                               |
| <i>max_ports</i>        | (Optional)                               |
| <i>min_ports</i>        | (Optional)                               |
| <i>inherit</i>          | (Optional)                               |
| <i>profile_cfg</i>      | (Optional)                               |
| <i>cmd_depth</i>        | (Optional)                               |
| <i>cmd_key</i>          | (Optional)                               |
| <i>parent_seqno</i>     | (Optional)                               |
| <i>cmd_seqno</i>        | (Optional)                               |
| <i>cmd_attr</i>         | (Optional)                               |
| <i>form_type</i>        | (Optional)                               |
| <i>cmd_mask</i>         | (Optional)                               |
| <i>shadow_cmd</i>       | (Optional)                               |

|                     |                                     |
|---------------------|-------------------------------------|
| <i>cmd_flags</i>    | (Optional)                          |
| <i>eval_cfg</i>     | (Optional)                          |
| <i>intf</i>         | (Optional)                          |
| <i>cap_l3</i>       | (Optional) L3 Profile               |
| <i>cap_iscsi</i>    | (Optional) iSCSI cap                |
| <i>ctrl_sgid</i>    | (Optional) Control Vlan Pinned Sgid |
| <i>pkt_sgid</i>     | (Optional) Packet Vlan Pinned Sgid  |
| <i>sys_vlans</i>    | (Optional) System Vlans             |
| <i>portgrp</i>      | (Optional) VMware Portgroup         |
| <i>pprole</i>       | (Optional) Port-profile Role        |
| <i>port_binding</i> | (Optional) Port-binding             |

**Command Mode**

- /exec

## show port-profile brief

```
show port-profile brief [ __readonly__ { TABLE_port_profile [ <profile_name> ] [ <type> ] [ <status> ] [
<profile_cfg_cnt> ] [ <eval_cfg_cnt> ] [ <intf_cnt> ] [ <inherit_cnt> ] [ <header_flag> ] } { TABLE_intf_count
[ <intf_type> ] [ <intf_count> ] [ <tot_header_flag> ] } ]
```

### Syntax Description

|                        |                                 |
|------------------------|---------------------------------|
| show                   | Show running system information |
| port-profile           | Show port-profile               |
| brief                  | Brief info about profiles       |
| <i>__readonly__</i>    | (Optional)                      |
| <i>profile_name</i>    | (Optional)                      |
| TABLE_port_profile     | (Optional)                      |
| <i>type</i>            | (Optional)                      |
| <i>status</i>          | (Optional)                      |
| <i>profile_cfg_cnt</i> | (Optional)                      |
| <i>eval_cfg_cnt</i>    | (Optional)                      |
| <i>intf_cnt</i>        | (Optional)                      |
| <i>inherit_cnt</i>     | (Optional)                      |
| <i>header_flag</i>     | (Optional)                      |
| TABLE_intf_count       | (Optional)                      |
| <i>intf_type</i>       | (Optional)                      |
| <i>intf_count</i>      | (Optional)                      |
| <i>tot_header_flag</i> | (Optional)                      |

### Command Mode

- /exec

# show port-profile expand-interface

```
show port-profile expand-interface [ name <all_profile_name> ] [ __readonly__ TABLE_port_profile
<profile_name> [ TABLE_interface <intf> [ <intf_cfg> ] + ] ]
```

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information              |
| port-profile            | Show port-profile                            |
| expand-interface        | Active profile config applied in a interface |
| name                    | (Optional) port-profile name                 |
| <i>all_profile_name</i> | (Optional) Enter the name of the profile     |
| <i>__readonly__</i>     | (Optional)                                   |
| TABLE_port_profile      | (Optional)                                   |
| <i>profile_name</i>     | (Optional)                                   |
| TABLE_interface         | (Optional)                                   |
| <i>intf</i>             | (Optional)                                   |
| <i>intf_cfg</i>         | (Optional)                                   |

## Command Mode

- /exec



# show port-profile sync-status

```
show port-profile sync-status [ interface <intfname> ] [ __readonly__ <intf> + [ <inherit> ] <status> + [
<sync_status> ] [ <cached_cmds> ] [ <errors> ] [ <recovery> ] ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information           |
| port-profile        | Show port-profile                         |
| sync-status         | Interfaces out-of-sync with port-profiles |
| interface           | (Optional) Interface name                 |
| <i>intfname</i>     | (Optional) Name of interface              |
| <i>__readonly__</i> | (Optional)                                |
| <i>intf</i>         | (Optional)                                |
| <i>status</i>       | (Optional)                                |
| <i>inherit</i>      | (Optional)                                |
| <i>sync_status</i>  | (Optional)                                |
| <i>cached_cmds</i>  | (Optional)                                |
| <i>errors</i>       | (Optional)                                |
| <i>recovery</i>     | (Optional)                                |

## Command Mode

- /exec

# show port-profile usage

```
show port-profile usage [ name <all_profile_name> ] [ __readonly__ TABLE_port_profile <profile_name>
[ TABLE_interface <interface> ] ]
```

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information          |
| port-profile            | Show port-profile                        |
| usage                   | List of interfaces inherited a profile   |
| name                    | (Optional) port-profile name             |
| <i>all_profile_name</i> | (Optional) Enter the name of the profile |
| <i>__readonly__</i>     | (Optional)                               |
| TABLE_port_profile      | (Optional)                               |
| TABLE_interface         | (Optional)                               |
| <i>profile_name</i>     | (Optional)                               |
| <i>interface</i>        | (Optional)                               |

## Command Mode

- /exec

## show port-security

```
show port-security [ __readonly__ [ <total_addr> ] [ <max_sys_limit> ] [ { TABLE_eth_port_sec_interfaces
<secure_port> <port_state> <max_secure_addr> <security_violation> <security_action> <current_addr>
<num_val> <num_elems> <cmdid_show_index> } ] ]
```

### Syntax Description

|  |  |
|--|--|
| <code>port-security</code>                 | Show secure port information                           |
| <code>__readonly__</code>                  | (Optional)   |
| <code>total_addr</code>                    | (Optional) Total number of secured MAC addresses       |
| <code>max_sys_limit</code>                 | (Optional) Maximum allowed MACs excluding one per port |
| <code>TABLE_eth_port_sec_interfaces</code> | (Optional) Displays the secured interfaces             |
| <code>secure_port</code>                   | (Optional) Interface Index                             |
| <code>port_state</code>                    | (Optional) Port security enabled or disabled           |
| <code>max_secure_addr</code>               | (Optional) Maximum number of secured MAC addresses     |
| <code>security_violation</code>            | (Optional) Number of security violations               |
| <code>security_action</code>               | (Optional) Security Action Shutdown/Restrict/Protect   |
| <code>current_addr</code>                  | (Optional) Number of secured MAC addresses             |
| <code>num_val</code>                       | (Optional) Number of Values                            |
| <code>num_elems</code>                     | (Optional) Number of Elements                          |
| <code>cmdid_show_index</code>              | (Optional) Index for the Interfaces                    |

### Command Mode

- /exec

## show port-security address

```
show port-security address [ __readonly__ [ <total_addr> ] [ <max_sys_limit> ] [ {
TABLE_eth_port_sec_mac_addrs <if_index> <vlan_id> <type> <mac_addr> <remain_age> <remote_learnt>
<remote_aged> <num_elems> <cmd_addr_index> } ] ]
```

### Syntax Description

|   |  |
|---|--|
| <code>port-security</code>                | Show secure port information                           |
| <code>address</code>                      | Show secure address                                    |
| <code>__readonly__</code>                 | (Optional)   |
| <code>total_addr</code>                   | (Optional) Total number of secured MAC addresses       |
| <code>max_sys_limit</code>                | (Optional) Maximum allowed MACs excluding one per port |
| <code>TABLE_eth_port_sec_mac_addrs</code> | (Optional) Displays the secured MAC addresses          |
| <code>if_index</code>                     | (Optional) Interface index                             |
| <code>vlan_id</code>                      | (Optional) vlan id                                     |
| <code>type</code>                         | (Optional) static/sticky/dyanmic MAC address           |
| <code>mac_addr</code>                     | (Optional) mac address                                 |
| <code>remain_age</code>                   | (Optional) Remaining age                               |
| <code>remote_learnt</code>                | (Optional) Remotely learnt                             |
| <code>remote_aged</code>                  | (Optional) Remotely Aged Out                           |
| <code>num_elems</code>                    | (Optional) Number of Elements                          |
| <code>cmd_addr_index</code>               | (Optional) Index for the interface address             |

### Command Mode

- /exec

## show port-security address interface

```
show port-security address interface <interface-id> [ __readonly__ { TABLE_eth_port_sec_mac_addrs
<if_index> <vlan_id> <type> <mac_addr> <remain_age> <remote_learnt> <remote_aged> <num_elems>
<cmd_addr_index> } [ <total_addr> ] [ <max_sys_limit> ] [ <first> ] ]
```

### Syntax Description

|                              |  |
|------------------------------|--|
| port-security                | Show secure port information                           |
| address                      | Show secure address                                    |
| interface                    | Show secure interface                                  |
| <i>interface-id</i>          | ethernet   |
| <i>__readonly__</i>          | (Optional)   |
| TABLE_eth_port_sec_mac_addrs | (Optional) Displays the secured MAC addresses          |
| <i>if_index</i>              | (Optional) Interface index                             |
| <i>vlan_id</i>               | (Optional) vlan id                                     |
| <i>type</i>                  | (Optional) static/sticky/dyanmic MAC address           |
| <i>mac_addr</i>              | (Optional) mac address                                 |
| <i>remain_age</i>            | (Optional) Remaining age                               |
| <i>remote_learnt</i>         | (Optional) Remotely learnt                             |
| <i>remote_aged</i>           | (Optional) Remotely Aged Out                           |
| <i>num_elems</i>             | (Optional) Number of Elements                          |
| <i>cmd_addr_index</i>        | (Optional) Index for the interface address             |
| <i>total_addr</i>            | (Optional) Total number of secured MAC addresses       |
| <i>max_sys_limit</i>         | (Optional) Maximum allowed MACs excluding one per port |
| <i>first</i>                 | (Optional) To identify the first entry                 |

### Command Mode

- /exec

## show port-security interface

```
show port-security interface <interface-id> [ __readonly__ <port_status> <config_port_security>
<oper_port_security> <violation_mode> <aging_time> <aging_type> <max_mac_addr> <total_sec_addrs>
<conf_num_addrs> <num_sticky_addrs> <trap_count> ]
```

### Syntax Description

|                             |  |
|-----------------------------|--|
| port-security               | Show secure port information                               |
| interface                   | Show secure interface                                      |
| <i>interface-id</i>         | ethernet   |
| <i>__readonly__</i>         | (Optional)   |
| <i>port_status</i>          | (Optional) Secure Up/Down                                  |
| <i>config_port_security</i> | (Optional) Port Security configuration is Enabled/Disabled |
| <i>oper_port_security</i>   | (Optional) Port Security is Operationally Enabled/Disabled |
| <i>violation_mode</i>       | (Optional) Shutdown/Restrict/Protect                       |
| <i>aging_time</i>           | (Optional) Aging time in minutes                           |
| <i>aging_type</i>           | (Optional) Absolute/Inactivity                             |
| <i>max_mac_addr</i>         | (Optional) Configured Maximum                              |
| <i>total_sec_addrs</i>      | (Optional) Total number of secured MAC addresses           |
| <i>conf_num_addrs</i>       | (Optional) Number of configured MAC addresses              |
| <i>num_sticky_addrs</i>     | (Optional) Number of sticky MAC addresses                  |
| <i>trap_count</i>           | (Optional) Trap Count                                      |

### Command Mode

- /exec

# show port-security state

show port-security state [ \_\_readonly\_\_ <status> ]

## Syntax Description

|               |                               |
|---------------|-------------------------------|
| port-security | Port security related command |
| state         | port security state           |
| __readonly__  | (Optional)                    |
| <i>status</i> | (Optional) show port-security |

## Command Mode

- /exec

# show port naming

show port naming

## Syntax Description

|        |                                 |
|--------|---------------------------------|
| show   | Show running system information |
| port   | Show port information           |
| naming | Show port naming information    |

## Command Mode

- /exec



## show postcard-telemetry exporter

```
show postcard-telemetry exporter [ name ] [ <exportername> ] [ __readonly__ <exporter> <description>
<dest> <vrf> <vrf_id> <vrf_resolved> <dest_udp> <source_intf> <source_ip> <seq_num> ]
```

### Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information              |
| postcard-telemetry  | Show POSTCARD information                    |
| exporter            | Show POSTCARD Exporter Configuration         |
| name                | (Optional) Show a specific POSTCARD Exporter |
| <i>exportername</i> | (Optional) Specify an exporter               |
| <i>__readonly__</i> | (Optional)                                   |
| <i>exporter</i>     | (Optional)                                   |
| <i>description</i>  | (Optional)                                   |
| <i>dest</i>         | (Optional)                                   |
| <i>vrf</i>          | (Optional)                                   |
| <i>vrf_id</i>       | (Optional)                                   |
| <i>vrf_resolved</i> | (Optional)                                   |
| <i>dest_udp</i>     | (Optional)                                   |
| <i>source_intf</i>  | (Optional)                                   |
| <i>source_ip</i>    | (Optional)                                   |
| <i>seq_num</i>      | (Optional)                                   |

### Command Mode

- /exec

# show postcard-telemetry flow-profile

```
show postcard-telemetry flow-profile [ name ] [ <flow-profilename> ] [ __readonly__ <flow-profile>
<description> <age> <latency> ]
```

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information                  |
| postcard-telemetry      | Show POSTCARD information                        |
| flow-profile            | Show POSTCARD flow Profile Configuration         |
| name                    | (Optional) Show a specific POSTCARD flow Profile |
| <i>flow-profilename</i> | (Optional) Specify an flow Profile               |
| <i>__readonly__</i>     | (Optional)                                       |
| <i>flow-profile</i>     | (Optional)                                       |
| <i>description</i>      | (Optional)                                       |
| <i>age</i>              | (Optional)                                       |
| <i>latency</i>          | (Optional)                                       |

## Command Mode

- /exec

# show postcard-telemetry monitor

```
show postcard-telemetry monitor [ name ] [ <monitorname> [ cache [ detailed ] ] ] [ __readonly__ <monitor>
<use_count> <description> <event> <exporter> <bucket_id> <src_addr> <dest_addr> <watchlist> ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information             |
| postcard-telemetry  | Show POSTCARD information                   |
| monitor             | Show Monitor Configuration                  |
| name                | (Optional) Show a specific POSTCARD Monitor |
| <i>monitorname</i>  | (Optional) Specify a monitor                |
| cache               | (Optional) Flow monitor cache contents      |
| detailed            | (Optional) Show the entire cache contents   |
| <i>__readonly__</i> | (Optional)                                  |
| <i>monitor</i>      | (Optional)                                  |
| <i>use_count</i>    | (Optional)                                  |
| <i>description</i>  | (Optional)                                  |
| <i>event</i>        | (Optional)                                  |
| <i>exporter</i>     | (Optional)                                  |
| <i>bucket_id</i>    | (Optional)                                  |
| <i>src_addr</i>     | (Optional)                                  |
| <i>dest_addr</i>    | (Optional)                                  |
| <i>watchlist</i>    | (Optional)                                  |

## Command Mode

- /exec

# show postcard-telemetry queue-profile

```
show postcard-telemetry queue-profile [ name ] [ <queue-profilename> ] [ __readonly__ <queue-profile>
<description> <depth> <latency> ]
```

## Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information                   |
| postcard-telemetry       | Show POSTCARD information                         |
| queue-profile            | Show POSTCARD Queue Profile Configuration         |
| name                     | (Optional) Show a specific POSTCARD Queue Profile |
| <i>queue-profilename</i> | (Optional) Specify an Queue Profile               |
| <i>__readonly__</i>      | (Optional)  |
| <i>queue-profile</i>     | (Optional)  |
| <i>description</i>       | (Optional)  |
| <i>depth</i>             | (Optional)  |
| <i>latency</i>           | (Optional)  |

## Command Mode

- /exec

# show postcard-telemetry sessions

show postcard-telemetry sessions [ <monitorname> ] [ \_\_readonly\_\_ <monitor> ]

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| postcard-telemetry  | Show POSTCARD information       |
| sessions            | Show Session Configuration      |
| <i>monitorname</i>  | (Optional) Specify a monitor    |
| <i>__readonly__</i> | (Optional)                      |
| <i>monitor</i>      | (Optional)                      |

## Command Mode

- /exec

## show postcard-telemetry watchlist

```
show postcard-telemetry watchlist [ name ] [ { <watchlistname> } ] [ __readonly__ <watchlist> <use_count>
<description> <num_aces> <ace_seq_num> <ace_action> <ace_type> <ace_sip> <ace_sip_len> <ace_dip>
<ace_dip_len> ]
```

### Syntax Description

|                      |  |
|----------------------|--|
| show                 | Show running system information                                  |
| postcard-telemetry   | Show POSTCARD information  |
| watchlist            | Show watchlist Configuration                                     |
| name                 | (Optional) Show the configuration for a specific POSTCARD Record |
| <i>watchlistname</i> | (Optional) Specify a watchlist                                   |
| <i>__readonly__</i>  | (Optional)   |
| <i>watchlist</i>     | (Optional)   |
| <i>use_count</i>     | (Optional)   |
| <i>description</i>   | (Optional)   |
| <i>num_aces</i>      | (Optional)   |
| <i>ace_seq_num</i>   | (Optional)   |
| <i>ace_action</i>    | (Optional)   |
| <i>ace_type</i>      | (Optional)   |
| <i>ace_sip</i>       | (Optional)   |
| <i>ace_sip_len</i>   | (Optional)   |
| <i>ace_dip</i>       | (Optional)   |
| <i>ace_dip_len</i>   | (Optional)   |

### Command Mode

- /exec

# show power inline

```
show power inline [ __readonly__ { TABLE_fex_info <module_id> <avail_pwr> <used_pwr> <rem_pwr>
} { TABLE_intf_info <intf_name> <admin> <oper> <supp_pwr> <del_pwr> <device> <class> <max> } ]
```

## Syntax Description

|                  |                                  |
|------------------|----------------------------------|
| show             | Show running system information  |
| power            | Power over Ethernet              |
| __readonly__     | (Optional)                       |
| TABLE_fex_info   | (Optional) FEX information       |
| <i>module_id</i> | (Optional) FEX id                |
| <i>avail_pwr</i> | (Optional) Available power       |
| <i>used_pwr</i>  | (Optional) Used power            |
| <i>rem_pwr</i>   | (Optional) Free power            |
| TABLE_intf_info  | (Optional) Interface information |
| <i>intf_name</i> | (Optional) Interface name        |
| <i>admin</i>     | (Optional) Port mode             |
| <i>oper</i>      | (Optional) Oper mode             |
| <i>supp_pwr</i>  | (Optional) Supplied power        |
| <i>del_pwr</i>   | (Optional) delivered power       |
| <i>device</i>    | (Optional) Device information    |
| <i>class</i>     | (Optional) POE Class             |
| <i>max</i>       | (Optional) Max power             |

## Command Mode

- /exec

# show power inline

```
show power inline <if0> [ __readonly__ { TABLE_intf_info <intf_name> <admin> <oper> <supp_pwr>
<del_pwr> <device> <class> <max> } ]
```

## Syntax Description

|                     |                                  |
|---------------------|----------------------------------|
| show                | Show running system information  |
| power               | Power over Ethernet              |
| <i>if0</i>          |                                  |
| <i>__readonly__</i> | (Optional)                       |
| TABLE_intf_info     | (Optional) Interface information |
| <i>intf_name</i>    | (Optional) Interface name        |
| <i>admin</i>        | (Optional) Port mode             |
| <i>oper</i>         | (Optional) Oper mode             |
| <i>supp_pwr</i>     | (Optional) Supplied power        |
| <i>del_pwr</i>      | (Optional) delivered power       |
| <i>device</i>       | (Optional) Device information    |
| <i>class</i>        | (Optional) POE Class             |
| <i>max</i>          | (Optional) Max power             |

## Command Mode

- /exec



# show power inline police

```
show power inline police [ __readonly__ { TABLE_police <intf_name> <admin> <oper> <admin_police>
<oper_police> <cutoff_pwr> <oper_pwr> } ]
```

## Syntax Description

|                     |                                    |
|---------------------|------------------------------------|
| show                | Show running system information    |
| power               | Power over Ethernet                |
| police              | Show per-port policing             |
| __readonly__        | (Optional)                         |
| TABLE_police        | (Optional) Police information      |
| <i>intf_name</i>    | (Optional) Interface name          |
| <i>admin</i>        | (Optional) Port mode               |
| <i>oper</i>         | (Optional) Oper mode               |
| <i>admin_police</i> | (Optional) Configured admin police |
| <i>oper_police</i>  | (Optional) Current police          |
| <i>cutoff_pwr</i>   | (Optional) Cutoff power            |
| <i>oper_pwr</i>     | (Optional) Oper power              |

## Command Mode

- /exec

# show power inline priority

show power inline priority [ *\_\_readonly\_\_* { *TABLE\_priority* <intf\_name> <admin> <oper> <priority> } ]

## Syntax Description

|                       |                                      |
|-----------------------|--------------------------------------|
| show                  | Show running system information      |
| power                 | Power over Ethernet                  |
| priority              | Show per-port priority               |
| <i>__readonly__</i>   | (Optional)                           |
| <i>TABLE_priority</i> | (Optional) Port priority information |
| <i>intf_name</i>      | (Optional) Interface name            |
| <i>admin</i>          | (Optional) Port mode                 |
| <i>oper</i>           | (Optional) Oper mode                 |
| <i>priority</i>       | (Optional) port priority             |

## Command Mode

- /exec

# show privilege

show privilege [ *\_\_readonly\_\_* <user\_name> <cur\_priv\_level> <feature\_priv\_status> ]

## Syntax Description

|                            |  |
|----------------------------|--|
| show                       | Show running system information        |
| privilege                  | Display privilege information          |
| <i>__readonly__</i>        | (Optional)                             |
| <i>user_name</i>           | (Optional) Current user name           |
| <i>cur_priv_level</i>      | (Optional) Current privilege level     |
| <i>feature_priv_status</i> | (Optional) Status of feature privilege |

## Command Mode

- /exec

# show processes

```
show processes [ __readonly__ { [ TABLE_processes <pid> <state> <pc> <start_cnt> <tty> <p_type>
<process> ] } ]
```

## Syntax Description

|                  |                                    |
|------------------|------------------------------------|
| show             | Show running system information    |
| processes        | Show processes                     |
| __readonly__     | (Optional)                         |
| TABLE_processes  | (Optional) all process information |
| <i>pid</i>       | (Optional) process id              |
| <i>state</i>     | (Optional) process state           |
| <i>pc</i>        | (Optional) pc register             |
| <i>start_cnt</i> | (Optional) TBD                     |
| <i>tty</i>       | (Optional) TBD                     |
| <i>p_type</i>    | (Optional) process type            |
| <i>process</i>   | (Optional) process name            |

## Command Mode

- /exec

## show processes cpu

```
show processes cpu [ sort ] [ __readonly__ { [ TABLE_process_cpu <pid> <runtime> <invoked> <usecs>
<onsec> <process> ] [ <user_percent> ] [ <kernel_percent> ] [ <idle_percent> ] } ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information  |
| processes             | Show processes   |
| cpu                   | Show processes CPU Info  |
| sort                  | (Optional) Show processes CPU Info (Sorted by Cpu Util with time base) |
| __readonly__          | (Optional)   |
| TABLE_process_cpu     | (Optional) all process memory  |
| <i>pid</i>            | (Optional) process id  |
| <i>runtime</i>        | (Optional) Runtime   |
| <i>invoked</i>        | (Optional) Invoked   |
| <i>usecs</i>          | (Optional) usecs   |
| <i>onsec</i>          | (Optional) fivesec   |
| <i>process</i>        | (Optional) name of the process   |
| <i>user_percent</i>   | (Optional) user  |
| <i>kernel_percent</i> | (Optional) kernel  |
| <i>idle_percent</i>   | (Optional) idle  |

### Command Mode

- /exec

# show processes cpu history

show processes cpu history

## Syntax Description

|           |                                 |
|-----------|---------------------------------|
| show      | Show running system information |
| processes | Show processes                  |
| cpu       | Show processes CPU Info         |
| history   | Show processes CPU Util History |

## Command Mode

- /exec

# show processes cpu history data

```
show processes cpu history data [ __readonly__ { [ TABLE_processes_cpu_history <cpu_avg_sec> ] } ]
```

## Syntax Description

|                                    |  |
|------------------------------------|--|
| show                               | Show running system information                |
| processes                          | Show processes                                 |
| cpu                                | Show processes CPU Info                        |
| history                            | Show processes CPU Util History                |
| data                               | Display the CPU util as data, instead of graph |
| <i>__readonly__</i>                | (Optional)                                     |
| <i>TABLE_processes_cpu_history</i> | (Optional) 60 sec cpu history                  |
| <i>cpu_avg_sec</i>                 | (Optional) cpu avg for a sec                   |

## Command Mode

- /exec

# show processes log

```
show processes log [ __readonly__ { [ TABLE_processes_log <vdc> <process> <pid> <normal_exit> <stack>
<core> <create_time> ] } ]
```

## Syntax Description

|                     |                                     |
|---------------------|-------------------------------------|
| show                | Show running system information     |
| processes           | Show processes                      |
| log                 | Show information about process logs |
| <i>__readonly__</i> | (Optional)                          |
| TABLE_processes_log | (Optional) all processes log        |
| <i>vdc</i>          | (Optional) vdc                      |
| <i>process</i>      | (Optional) vdc process name         |
| <i>pid</i>          | (Optional) pid                      |
| <i>normal_exit</i>  | (Optional) process exit             |
| <i>stack</i>        | (Optional) stack                    |
| <i>core</i>         | (Optional) core                     |
| <i>create_time</i>  | (Optional) log create time          |

## Command Mode

- /exec



# show processes log details

show processes log details [ \_\_readonly\_\_ { line\_in\_log\_detail <line\_in\_file> } ]

## Syntax Description

|                     |                                     |
|---------------------|-------------------------------------|
| show                | Show running system information     |
| processes           | Show processes                      |
| log                 | Show information about process logs |
| details             | Show detail of all logs with stack  |
| __readonly__        | (Optional)                          |
| line_in_log_detail  | (Optional)                          |
| <i>line_in_file</i> | (Optional) each line                |

## Command Mode

- /exec

# show processes log pid

```
show processes log pid <i0> [ __readonly__ { TABLE_line_in_log_pid <line_in_file> } ]
```

## Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information               |
| processes                 | Show processes                                |
| log                       | Show information about process logs           |
| pid                       | Show detail log info about a specific process |
| <i>i0</i>                 | pid of the process                            |
| <code>__readonly__</code> | (Optional)                                    |
| TABLE_line_in_log_pid     | (Optional)                                    |
| <i>line_in_file</i>       | (Optional) each line                          |

## Command Mode

- /exec

# show processes log vdc-all

```
show processes log vdc-all [ __readonly__ { [ TABLE_processes_log_vdc_all <vdc> <process> <pid>
<normal_exit> <stack> <core> <create_time> ] } ]
```

## Syntax Description

|                             |  |
|-----------------------------|--|
| TABLE_processes_log_vdc_all | (Optional) all processes log vdc all             |
| show                        | Show running system information                  |
| processes                   | Show processes                                   |
| log                         | Show information about process logs              |
| vdc-all                     | Show information about process logs in all vdc's |
| __readonly__                | (Optional)                                       |
| vdc                         | (Optional) vdc process name                      |
| process                     | (Optional) vdc process name                      |
| pid                         | (Optional) process id                            |
| normal_exit                 | (Optional) process exit                          |
| stack                       | (Optional) stack                                 |
| core                        | (Optional) core                                  |
| create_time                 | (Optional) log create time                       |

## Command Mode

- /exec

# show processes memory

```
show processes memory [ __readonly__ { TABLE_process_memory <mem_pid> <mem_alloc> <mem_limit>
<mem_used> <stack_base_ptr> <process> } ]
```

## Syntax Description

|                       |                                   |
|-----------------------|-----------------------------------|
| show                  | Show running system information   |
| processes             | Show processes                    |
| memory                | Show processes Memory Info        |
| <i>__readonly__</i>   | (Optional)                        |
| TABLE_process_memory  | (Optional) all process memory     |
| <i>mem_pid</i>        | (Optional) process id             |
| <i>mem_alloc</i>      | (Optional) allocated memory       |
| <i>mem_limit</i>      | (Optional) memory limit           |
| <i>mem_used</i>       | (Optional) memory used            |
| <i>stack_base_ptr</i> | (Optional) stack and base pointer |
| <i>process</i>        | (Optional) name of the process    |

## Command Mode

- /exec

# show processes memory physical

```
show processes memory physical [ __readonly__ { TABLE_process_physical_memory <processid> <virtual>
<physical> <rss> <processname> } ]
```

## Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information        |
| processes                     | Show processes                         |
| memory                        | Show processes Memory Info             |
| physical                      | Show processes physical Memory         |
| __readonly__                  | (Optional)                             |
| TABLE_process_physical_memory | (Optional) all process physical memory |
| <i>processid</i>              | (Optional) process id                  |
| <i>virtual</i>                | (Optional) virtual allocated memory    |
| <i>physical</i>               | (Optional) physical memory used        |
| <i>rss</i>                    | (Optional) rss memory                  |
| <i>processname</i>            | (Optional) name of the process         |

## Command Mode

- /exec

## show processes memory shared

```
show processes memory shared [ detail | dynamic ] [ __readonly__ TABLE_process_tag [ <process-tag-out>
] [ <process-memory-share-dynamic-component-str> ] [ <process-memory-share-dynamic-shared-memory-str>
] [ <process-memory-share-dynamic-current-size-str> ] [ <process-memory-share-dynamic-max-size-str> ]
] [ <process-memory-share-dynamic-used-str> ] [ <process-memory-share-component-str> ] [
<process-memory-share-shared-memory-str> ] [ <process-memory-share-size-str> ] [
<process-memory-share-used-str> ] [ <process-memory-share-available-str> ] [ <process-memory-share-ref-str>
] [ <process-memory-share-byte-set-address-str> ] [ <process-memory-share-byte-set-count-str> ] [
<process-memory-share-address-str> ] [ <process-memory-share-kbytes-1-str> ] [
<process-memory-share-kbytes-2-str> ] [ <process-memory-share-kbytes-3-str> ] [
<process-memory-share-count-str> ] [ { TABLE_SMMITEM <process-memory-share-smr-name> } ] [ {
TABLE_SHOWPROC <process-memory-share-table-showproc-key> [ { TABLE_SHOWONEDYNAMIC
[ <process-memory-share-component> ] [ <process-memory-share-shared-memory> ] [
<process-memory-share-current-size> ] [ <process-memory-share-max-size> ] [ <process-memory-share-used>
] ] ] [ { TABLE_ONEITEM [ <process-memory-share-proc-smr-name> ] [ <process-memory-share-smr-addr>
] [ <process-memory-share-smr-size> ] [ <process-memory-share-smr-star-char> ] [
<process-memory-share-smr-empty-char> ] [ <process-memory-share-smr-used> ] [
<process-memory-share-smr-avail> ] [ <process-memory-share-smr-ref-count> ] [
<process-memory-share-dynamic-smr-name> } ] ] [ { TABLE_ONEITEMDYNAMIC [
<process-memory-share-dynamic-smr-addr> ] [ <process-memory-share-dynamic-smr-size> ] [
<process-memory-share-dynamic-plus-char> ] [ <process-memory-share-max-mem-size-str> ] [
<process-memory-share-dynamic-smr-used> ] [ <process-memory-share-dynamic-smr-avail> ] [
<process-memory-share-dynamic-smr-ref-count> ] [ <process-memory-share-region-smr-name> } ] ] ] [
<process-memory-share-total-shm-size> ] [ <process-memory-share-total-shm-used> ] [
<process-memory-share-total-shm-avail> ] ] ]
```

### Syntax Description

|   |   |
|---|---|
| show  | Show running system information                                     |
| processes   | Display process information   |
| memory  | Display memory information  |
| shared  | Display shared memory info  |
| detail  | (Optional) Display shared memory in bytes instead of default kbytes |
| dynamic   | (Optional) Display details of dynamic shared memory segments        |
| __readonly__  | (Optional)  |
| TABLE_process_tag                                     | (Optional)  |
| <i>process-tag-out</i>                                | (Optional)  |
| <i>process-memory-share-dynamic-component-str</i>     | (Optional)  |
| <i>process-memory-share-dynamic-shared-memory-str</i> | (Optional)  |
| <i>process-memory-share-dynamic-current-size-str</i>  | (Optional)  |

|  |            |
|--|------------|
| <i>process-memory-share-dynamic-max-size-str</i> | (Optional) |
| <i>process-memory-share-dynamic-used-str</i>     | (Optional) |
| <i>process-memory-share-component-str</i>        | (Optional) |
| <i>process-memory-share-shared-memory-str</i>    | (Optional) |
| <i>process-memory-share-size-str</i>             | (Optional) |
| <i>process-memory-share-used-str</i>             | (Optional) |
| <i>process-memory-share-available-str</i>        | (Optional) |
| <i>process-memory-share-ref-str</i>              | (Optional) |
| <i>process-memory-share-byte-set-address-str</i> | (Optional) |
| <i>process-memory-share-byte-set-count-str</i>   | (Optional) |
| <i>process-memory-share-address-str</i>          | (Optional) |
| <i>process-memory-share-kbytes-1-str</i>         | (Optional) |
| <i>process-memory-share-kbytes-2-str</i>         | (Optional) |
| <i>process-memory-share-kbytes-3-str</i>         | (Optional) |
| <i>process-memory-share-count-str</i>            | (Optional) |
| TABLE_SMMITEM                                    | (Optional) |
| <i>process-memory-share-smr-name</i>             | (Optional) |
| TABLE_SHOWPROC                                   | (Optional) |
| <i>process-memory-share-table-showproc-key</i>   | (Optional) |
| TABLE_SHOWONEDYNAMIC                             | (Optional) |
| <i>process-memory-share-component</i>            | (Optional) |
| <i>process-memory-share-shared-memory</i>        | (Optional) |
| <i>process-memory-share-current-size</i>         | (Optional) |
| <i>process-memory-share-max-size</i>             | (Optional) |
| <i>process-memory-share-used</i>                 | (Optional) |
| TABLE_ONEITEM                                    | (Optional) |
| <i>process-memory-share-proc-smr-name</i>        | (Optional) |
| <i>process-memory-share-smr-addr</i>             | (Optional) |
| <i>process-memory-share-smr-size</i>             | (Optional) |

|   |            |
|---|------------|
| <i>process-memory-share-smr-star-char</i>         | (Optional) |
| <i>process-memory-share-smr-empty-char</i>        | (Optional) |
| <i>process-memory-share-smr-used</i>              | (Optional) |
| <i>process-memory-share-smr-avail</i>             | (Optional) |
| <i>process-memory-share-smr-ref-count</i>         | (Optional) |
| TABLE_ONEITEMDYNAMIC                              | (Optional) |
| <i>process-memory-share-dynamic-smr-name</i>      | (Optional) |
| <i>process-memory-share-dynamic-smr-addr</i>      | (Optional) |
| <i>process-memory-share-dynamic-smr-size</i>      | (Optional) |
| <i>process-memory-share-dynamic-plus-char</i>     | (Optional) |
| <i>process-memory-share-max-mem-size-str</i>      | (Optional) |
| <i>process-memory-share-dynamic-smr-used</i>      | (Optional) |
| <i>process-memory-share-dynamic-smr-avail</i>     | (Optional) |
| <i>process-memory-share-dynamic-smr-ref-count</i> | (Optional) |
| <i>process-memory-share-region-smr-name</i>       | (Optional) |
| <i>process-memory-share-total-shm-size</i>        | (Optional) |
| <i>process-memory-share-total-shm-used</i>        | (Optional) |
| <i>process-memory-share-total-shm-avail</i>       | (Optional) |

**Command Mode**

- /exec



# show processes vdc

```
show processes vdc <e-vdc2> [ __readonly__ { TABLE_processes_vdc <pid> <state> <pc> <start_cnt> <tty>
<p_type> <process> } ]
```

## Syntax Description

|                            |                                       |
|----------------------------|---------------------------------------|
| show                       | Show running system information       |
| processes                  | Show processes                        |
| vdc                        | Show processes in vdc                 |
| <i>e-vdc2</i>              | Enter Virtual Device Context <vdc-id> |
| <i>__readonly__</i>        | (Optional) Read only                  |
| <i>TABLE_processes_vdc</i> | (Optional) All process information    |
| <i>pid</i>                 | (Optional) PID of process             |
| <i>state</i>               | (Optional) State of process           |
| <i>pc</i>                  | (Optional) PC in which process exists |
| <i>start_cnt</i>           | (Optional) TBD                        |
| <i>tty</i>                 | (Optional) TBD                        |
| <i>p_type</i>              | (Optional) Type of Process            |
| <i>process</i>             | (Optional) Process Name               |

## Command Mode

- /exec

## show processes vdc cpu

```
show processes vdc <e-vdc2> cpu [ __readonly__ [ TABLE_process_vdc_cpu <pid> <runtime> <invoked>
<usecs> <onsec> <process> ] [ <user_percent> ] [ <kernel_percent> ] [ <idle_percent> ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information        |
| processes             | Show processes                         |
| vdc                   | Show processes in vdc                  |
| <i>e-vdc2</i>         | Enter Virtual Device Context <vdc-id>  |
| cpu                   | Show processes CPU Info                |
| <i>__readonly__</i>   | (Optional) Readonly table for cpu log  |
| TABLE_process_vdc_cpu | (Optional) All cpu process logs of vdc |
| <i>pid</i>            | (Optional) PID of process              |
| <i>runtime</i>        | (Optional) Runtime                     |
| <i>invoked</i>        | (Optional) Invoked                     |
| <i>usecs</i>          | (Optional) uSecs                       |
| <i>onsec</i>          | (Optional) fivesec                     |
| <i>process</i>        | (Optional) Name of process             |
| <i>user_percent</i>   | (Optional) user                        |
| <i>kernel_percent</i> | (Optional) kernel                      |
| <i>idle_percent</i>   | (Optional) idle                        |

### Command Mode

- /exec

## show processes vdc log

```
show processes vdc <e-vdc2> log [ __readonly__ { [ TABLE_processes_vdc_log <vdc> <process> <pid>
<normal_exit> <stack> <core> <create_time> ] } ]
```

### Syntax Description

|                                |   |
|--------------------------------|---|
| show                           | Show running system information               |
| processes                      | Show processes                                |
| vdc                            | Show processes in vdc                         |
| <i>e-vdc2</i>                  | Enter Virtual Device Context <vdc-id>         |
| log                            | Show information about process logs           |
| <i>__readonly__</i>            | (Optional) Read only table                    |
| <i>TABLE_processes_vdc_log</i> | (Optional) Table for log of all VDC Processes |
| <i>pid</i>                     | (Optional) PID of process                     |
| <i>vdc</i>                     | (Optional) VDC Number                         |
| <i>process</i>                 | (Optional) Process name                       |
| <i>normal_exit</i>             | (Optional) Normal Exit status                 |
| <i>stack</i>                   | (Optional) Stack                              |
| <i>core</i>                    | (Optional) Core                               |
| <i>create_time</i>             | (Optional) Time stamp of log                  |

### Command Mode

- /exec

# show processes vdc log details

show processes vdc <e-vdc2> log details

## Syntax Description

|               |                                       |
|---------------|---------------------------------------|
| show          | Show running system information       |
| processes     | Show processes                        |
| vdc           | Show processes in vdc                 |
| <i>e-vdc2</i> | Enter Virtual Device Context <vdc-id> |
| log           | Show information about process logs   |
| details       | Show detail of all logs with stack    |

## Command Mode

- /exec

# show processes vdc log pid

show processes vdc <e-vdc2> log pid <i1>

## Syntax Description

|               |   |
|---------------|---|
| show          | Show running system information               |
| processes     | Show processes                                |
| vdc           | Show processes in vdc                         |
| <i>e-vdc2</i> | Enter Virtual Device Context <vdc-id>         |
| log           | Show information about process logs           |
| pid           | Show detail log info about a specific process |
| <i>i1</i>     | pid of the process                            |

## Command Mode

- /exec

## show processes vdc memory

```
show processes vdc <e-vdc2> memory [ __readonly__ { [ TABLE_process_memory <mem_pid> <mem_alloc>
<mem_limit> <mem_used> <stack_base_ptr> <process> ] [ <sum_mem_malloced> ] } ]
```

### Syntax Description

|                       |                                       |
|-----------------------|---------------------------------------|
| show                  | Show running system information       |
| processes             | Show processes                        |
| vdc                   | Show processes in vdc                 |
| <i>e-vdc2</i>         | Enter Virtual Device Context <vdc-id> |
| memory                | Show processes Memory Info            |
| <i>__readonly__</i>   | (Optional)                            |
| TABLE_process_memory  | (Optional) all process memory         |
| <i>mem_pid</i>        | (Optional) process id                 |
| <i>mem_alloc</i>      | (Optional) allocated memory           |
| <i>mem_limit</i>      | (Optional) memory limit               |
| <i>mem_used</i>       | (Optional) memory used                |
| <i>stack_base_ptr</i> | (Optional) stack and base pointer     |
| <i>process</i>        | (Optional) name of the process        |

### Command Mode

- /exec

# show pss debug

show pss debug

## Syntax Description

|       |                                 |
|-------|---------------------------------|
| show  | Show running system information |
| pss   | display pss information         |
| debug | display pss debug configuration |

## Command Mode

- /exec

# show ptp brief

```
show ptp brief [ __readonly__ <gtp-flag> [ TABLE_ptp <ptp-ifindex> <state> [ <dot1as-capable> ] ]
<ptp-end> ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| ptp                   | Precision Time Protocol (IEEE 1588) Subsystem |
| brief                 | port states in brief                          |
| __readonly__          | (Optional) Read Only                          |
| <i>gtp-flag</i>       | (Optional) GTP mode                           |
| TABLE_ptp             | (Optional) ptp table                          |
| <i>ptp-ifindex</i>    | (Optional) ptp ifindex                        |
| <i>state</i>          | (Optional) BMC state                          |
| <i>dot1as-capable</i> | (Optional) Dot1AS capable                     |
| <i>ptp-end</i>        | (Optional) End of table                       |

## Command Mode

- /exec



# show ptp clock

```
show ptp clock [ __readonly__ <clock-id> <domain-id> <num-ports> <priority1> <priority2> <class>
<accuracy> <scaled-log-variance> <offset-from-master> <mean-path-delay-to-master> <steps-removed>
<device-type> <encap> <slave-clock-oper> <master-clock-oper> <src-ip> <slave-only> [
<correction-threshold> ] [ <mean-path-delay-threshold> ] [ <gmTimeBaseIndicator> ] [
<last_gm_phase_change> ] [ <master_cum_scaled_rate_offset> ] [ <scaled_last_gm_freq_change> ] [
<cum_scaled_rate_offset> ] <local-clock-time> <bs-status> ]
```

## Syntax Description

|  |  |
|--|--|
| <code>ptp</code>                       | Precision Time Protocol (IEEE 1588) Subsystem                          |
| <code>clock</code>                     | Set local clock attributes   |
| <code>__readonly__</code>              | (Optional) Read only   |
| <code>domain-id</code>                 | (Optional) Domain Id   |
| <code>clock-id</code>                  | (Optional) Clock Id  |
| <code>priority1</code>                 | (Optional) Priority 1  |
| <code>priority2</code>                 | (Optional) Priority 2  |
| <code>num-ports</code>                 | (Optional) Number of PTP ports   |
| <code>class</code>                     | (Optional) Class   |
| <code>accuracy</code>                  | (Optional) Clock accuracy  |
| <code>scaled-log-variance</code>       | (Optional) scaled log variance   |
| <code>offset-from-master</code>        | (Optional) Offset from master  |
| <code>mean-path-delay-to-master</code> | (Optional) mean path delay to master                                   |
| <code>steps-removed</code>             | (Optional) Steps removed   |
| <code>device-type</code>               | (Optional) Device Type   |
| <code>encap</code>                     | (Optional) Encapsulation   |
| <code>src-ip</code>                    | (Optional) IPv4 address (A.B.C.D) of source (in layer-3 encapsulation) |
| <code>slave-clock-oper</code>          | (Optional) Slave clock operation                                       |
| <code>master-clock-oper</code>         | (Optional) Master clock operation                                      |
| <code>slave-only</code>                | (Optional) Slave-only mode   |
| <code>correction-threshold</code>      | (Optional) correction-threshold  |
| <code>mean-path-delay-threshold</code> | (Optional) mean-path-delay threshold                                   |

|                                      |   |
|--------------------------------------|---|
| <i>gmTimeBaseIndicator</i>           | (Optional) time base indicator for current GM                 |
| <i>last_gm_phase_change</i>          | (Optional) time difference of current and previous GM         |
| <i>master_cum_scaled_rate_offset</i> | (Optional) cumulative scaled rate offset received from master |
| <i>scaled_last_gm_freq_change</i>    | (Optional) scaled last GM frequency change                    |
| <i>cum_scaled_rate_offset</i>        | (Optional) cumulative scaled rate offset                      |
| <i>local-clock-time</i>              | (Optional) Local clock time                                   |
| <i>bs-status</i>                     | (Optional) Broadsync status enable/disable                    |

**Command Mode**

- /exec

## show ptp clock foreign-masters record

```
show ptp clock foreign-masters record [ interface <if0> ] [ __readonly__ [ TABLE_ptp <interface-name>
<clock-id> <priority1> <priority2> <class> <accuracy> <scaled-log-variance> <steps-removed> <is-gm> ]
<ptp-end> ]
```

### Syntax Description

|                                  |   |
|----------------------------------|---|
| <code>ptp</code>                 | Precision Time Protocol (IEEE 1588) Subsystem |
| <code>clock</code>               | Set local clock attributes                    |
| <code>foreign-masters</code>     | foreign-masters                               |
| <code>record</code>              | record  |
| <code>if0</code>                 | (Optional)                                    |
| <code>__readonly__</code>        | (Optional) Read only                          |
| <code>TABLE_ptp</code>           | (Optional) ptp table                          |
| <code>interface-name</code>      | (Optional) interface name                     |
| <code>clock-id</code>            | (Optional) Clock Id                           |
| <code>priority1</code>           | (Optional) Priority 1                         |
| <code>priority2</code>           | (Optional) Priority 2                         |
| <code>class</code>               | (Optional) Class                              |
| <code>accuracy</code>            | (Optional) Clock accuracy                     |
| <code>scaled-log-variance</code> | (Optional) scaled log variance                |
| <code>steps-removed</code>       | (Optional) Steps removed                      |
| <code>is-gm</code>               | (Optional) Is Grandmaster                     |
| <code>ptp-end</code>             | (Optional) End of table                       |

### Command Mode

- /exec

# show ptp corrections

```
show ptp corrections [ entries <val> ] [ __readonly__ <ptp-header> [ TABLE_ptp <intf-name> <sup-time>
<correction-val> <mean-path-delay> ] <ptp-end> ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| <i>ptp</i>            | Precision Time Protocol (IEEE 1588) Subsystem  |
| <i>__readonly__</i>   | (Optional) Read Only                           |
| <i>corrections</i>    | Display last few corrections                   |
| <i>entries</i>        | (Optional) Latest entries to display           |
| <i>val</i>            | (Optional) Number of latest entries to display |
| <i>ptp-header</i>     | (Optional) Start of table                      |
| <i>TABLE_ptp</i>      | (Optional) ptp table                           |
| <i>intf-name</i>      | (Optional) interface name                      |
| <i>sup-time</i>       | (Optional) sup time                            |
| <i>correction-val</i> | (Optional) correction value                    |
| <i>ptp-end</i>        | (Optional) End of table                        |

## Command Mode

- /exec

## show ptp cost

```
show ptp cost [ interface <if0> ] [ __readonly__ [ TABLE_ptp <ptp-ifindex> <cost> ] <ptp-end> ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| <i>ptp</i>          | Precision Time Protocol (IEEE 1588) Subsystem |
| <i>cost</i>         | port costs                                    |
| <i>if0</i>          | (Optional)                                    |
| <i>__readonly__</i> | (Optional) Read Only                          |
| <i>TABLE_ptp</i>    | (Optional) ptp table                          |
| <i>ptp-ifindex</i>  | (Optional) ptp ifindex                        |
| <i>cost</i>         | (Optional) cost                               |
| <i>ptp-end</i>      | (Optional) End of table                       |

### Command Mode

- /exec

## show ptp counters interface

```
show ptp counters { interface <if0> | all } [ { detail | ipv4 <ip> } ] [ __readonly__ [ TABLE_ptp
<interface_name> [ <accepted-ip> ] <tx-announce-pkts> <rx-announce-pkts> <tx-sync-pkts> <rx-sync-pkts>
<tx-follow-up-pkts> <rx-follow-up-pkts> <tx-delay-req-pkts> <rx-delay-req-pkts> <tx-delay-resp-pkts>
<rx-delay-resp-pkts> <tx-pdelay-req-pkts> <rx-pdelay-req-pkts> <tx-pdelay-resp-pkts> <rx-pdelay-resp-pkts>
<tx-pdelay-follow-up-pkts> <rx-pdelay-follow-up-pkts> [ <tx-mgmt-pkts> ] [ <rx-mgmt-pkts> ] ] <ptp-end>
]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| ptp                   | Precision Time Protocol (IEEE 1588) Subsystem |
| __readonly__          | (Optional) Read Only                          |
| counters              | Display PTP packet counters                   |
| interface             | Enter the port interface                      |
| all                   | Displays all information                      |
| <i>if0</i>            |   |
| detail                | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED     |
| ipv4                  | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED     |
| <i>ip</i>             | (Optional) IPv4 address (A.B.C.D)             |
| TABLE_ptp             | (Optional) ptp table                          |
| <i>interface_name</i> | (Optional) interface name                     |
| <i>accepted-ip</i>    | (Optional) Accepted IP in unicast mode        |
| <i>ptp-end</i>        | (Optional) End of table                       |

### Command Mode

- /exec

## show ptp domain data

```
show ptp domain data [ __readonly__ [ TABLE_ptp <multidom_cap> <gm_cap> <gm_convergence_time>
<def_dom> <transition_priority1> <transition_priority2> [ TABLE_ptp_domain <domain_number>
<domain_priority> <ptp_clock_class_threshold> <ptp_clock_accuracy_threshold> <ptp-ifindex> ] ] <ptp-end>
]
```

### Syntax Description

|   |  |
|---|--|
| <code>ptp</code>                          | Precision Time Protocol (IEEE 1588) Subsystem    |
| <code>domain</code>                       | ptp domain number                                |
| <code>data</code>                         | ptp domain data                                  |
| <code>__readonly__</code>                 | (Optional) Read Only                             |
| <code>TABLE_ptp</code>                    | (Optional) ptp table                             |
| <code>multidom_cap</code>                 | (Optional) Multidomain state ENABLED/DISABLED    |
| <code>gm_cap</code>                       | (Optional) GM state ENABLE/DISABLED              |
| <code>gm_convergence_time</code>          | (Optional) ptp grandmaster convergence time      |
| <code>def_dom</code>                      | (Optional) ptp default domain                    |
| <code>transition_priority1</code>         | (Optional) ptp multi-domain transition priority1 |
| <code>transition_priority2</code>         | (Optional) ptp multi-domain transition priority2 |
| <code>TABLE_ptp_domain</code>             | (Optional)                                       |
| <code>domain_number</code>                | (Optional) ptp domain number                     |
| <code>domain_priority</code>              | (Optional) ptp domain priority                   |
| <code>ptp_clock_class_threshold</code>    | (Optional) ptp domain class                      |
| <code>ptp_clock_accuracy_threshold</code> | (Optional) ptp domain accuracy                   |
| <code>ptp-ifindex</code>                  | (Optional) ptp ifindex                           |
| <code>ptp-end</code>                      | (Optional) End of table                          |

### Command Mode

- /exec

## show ptp interface domain

show ptp interface domain [ \_\_readonly\_\_ [ TABLE\_ptp <ptp-ifindex> <interface-domain> ] <ptp-end> ]

### Syntax Description

|                         |   |
|-------------------------|---|
| ptp                     | Precision Time Protocol (IEEE 1588) Subsystem |
| interface               | port  |
| domain                  | ptp port domain                               |
| __readonly__            | (Optional) Read Only                          |
| TABLE_ptp               | (Optional) ptp table                          |
| <i>ptp-ifindex</i>      | (Optional) ptp ifindex                        |
| <i>interface-domain</i> | (Optional) ptp port domain                    |
| <i>ptp-end</i>          | (Optional) End of table                       |

### Command Mode

- /exec



## show ptp packet-trace

```
show ptp packet-trace [ __readonly__ <ptp-header> [ TABLE_ptp <intf-name> <sup-time> <pkt_dir>
<pkt_type> <pkt_info> ] <ptp-end> ]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| <code>ptp</code>          | Precision Time Protocol (IEEE 1588) Subsystem |
| <code>__readonly__</code> | (Optional) Read Only                          |
| <code>packet-trace</code> | Display last few pkt traces                   |
| <code>ptp-header</code>   | (Optional) Start of table                     |
| <code>TABLE_ptp</code>    | (Optional) ptp table                          |
| <code>intf-name</code>    | (Optional) interface name                     |
| <code>sup-time</code>     | (Optional) sup time                           |
| <code>pkt_dir</code>      | (Optional) pkt_dir                            |
| <code>pkt_type</code>     | (Optional) pkt_type                           |
| <code>pkt_info</code>     | (Optional) pkt_info                           |
| <code>ptp-end</code>      | (Optional) End of table                       |

### Command Mode

- /exec

# show ptp parent

```
show ptp parent [ __readonly__ <clock-id> <port-num> <obs-parent-offset> <obs-parent-clk-phase-chg> [
<parent-ip> ] <gm-id> <gm-class> <gm-accuracy> <gm-scaled-log-variance> <gm-priority1> <gm-priority2>
[ TABLE-path-trace <path-trace-index> <path-trace-clock-id> ] ]
```

## Syntax Description

|                                 |   |
|---------------------------------|---|
| ptp                             | Precision Time Protocol (IEEE 1588) Subsystem |
| parent                          | parent clock                                  |
| __readonly__                    | (Optional) Read only                          |
| <i>clock-id</i>                 | (Optional) Clock Id                           |
| <i>port-num</i>                 | (Optional) Port ID: port number               |
| <i>obs-parent-offset</i>        | (Optional) observed parent offset             |
| <i>obs-parent-clk-phase-chg</i> | (Optional) observed parent clock phase change |
| <i>parent-ip</i>                | (Optional) Parent clock IP                    |
| <i>gm-id</i>                    | (Optional) Grandmaster Id                     |
| <i>gm-class</i>                 | (Optional) Class                              |
| <i>gm-accuracy</i>              | (Optional) Clock accuracy                     |
| <i>gm-scaled-log-variance</i>   | (Optional) scaled log variance                |
| <i>gm-priority1</i>             | (Optional) GM Priority 1                      |
| <i>gm-priority2</i>             | (Optional) GM Priority 2                      |
| TABLE-path-trace                | (Optional) ptp path trace table               |
| <i>path-trace-index</i>         | (Optional) Clock Identity index               |
| <i>path-trace-clock-id</i>      | (Optional) Clock Identity in path trace       |

## Command Mode

- /exec

## show ptp port interface

```
show ptp port interface <if0> [ __readonly__ [ TABLE_ptp <intf-name> <clock-id> <port-num> <version>
[ <transport-mode> ] [ <accepted-ip> ] <state> <vlan> <delay-req-intv> <ann-rx-tout> <peer-mean-path-delay>
<ann-intv> <sync-intv> <delay-mechanism> [ <peer-delay-req-intv> ] [ <device-type> ] [ <encap> ] [
<prop-delay-thresh> ] [ <neighbor-rate-ratio> ] <cost> <int-domain-id> ] <ptp-end> ]
```

### Syntax Description

|                                   |   |
|-----------------------------------|---|
| <code>ptp</code>                  | Precision Time Protocol (IEEE 1588) Subsystem |
| <code>port</code>                 | port  |
| <code>interface</code>            | Enter the port interface                      |
| <code>if0</code>                  |   |
| <code>__readonly__</code>         | (Optional) Read only                          |
| <code>TABLE_ptp</code>            | (Optional) ptp table                          |
| <code>intf-name</code>            | (Optional) interface name                     |
| <code>clock-id</code>             | (Optional) Port ID: Clock Id                  |
| <code>port-num</code>             | (Optional) Port ID: port number               |
| <code>version</code>              | (Optional) version                            |
| <code>transport-mode</code>       | (Optional) Transport mode                     |
| <code>accepted-ip</code>          | (Optional) Accepted IPs                       |
| <code>state</code>                | (Optional) BMC state                          |
| <code>vlan</code>                 | (Optional) Vlan                               |
| <code>delay-req-intv</code>       | (Optional) log mean delay req interval        |
| <code>ann-rx-tout</code>          | (Optional) announce receipt timeout           |
| <code>peer-mean-path-delay</code> | (Optional) peer mean path delay               |
| <code>ann-intv</code>             | (Optional) announce interval                  |
| <code>sync-intv</code>            | (Optional) sync interval                      |
| <code>delay-mechanism</code>      | (Optional) delay mechanism                    |
| <code>peer-delay-req-intv</code>  | (Optional) peer delay req interval            |
| <code>device-type</code>          | (Optional) Device Type                        |
| <code>encap</code>                | (Optional) Encapsulation                      |

|                            |  |
|----------------------------|--|
| <i>prop-delay-thresh</i>   | (Optional) propagation delay threshold |
| <i>neighbor-rate-ratio</i> | (Optional) Neighbor rate-ratio         |
| <i>cost</i>                | (Optional) Cost                        |
| <i>int-domain-id</i>       | (Optional) domain id                   |
| <i>ptp-end</i>             | (Optional) End of Table                |

**Command Mode**

- /exec

## show ptp time-property

```
show ptp time-property [ __readonly__ <current-utc-offset-valid> <current-utc-offset> <leap-59> <leap-61>
<time-traceable> <freq-traceable> <ptp-timescale> <time-source> ]
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| ptp                             | Precision Time Protocol (IEEE 1588) Subsystem |
| time-property                   | time property                                 |
| __readonly__                    | (Optional) Read only                          |
| <i>current-utc-offset-valid</i> | (Optional) current_utc_offset_valid           |
| <i>current-utc-offset</i>       | (Optional) current_utc_offset                 |
| <i>leap-59</i>                  | (Optional) leap-59                            |
| <i>leap-61</i>                  | (Optional) leap-61                            |
| <i>time-traceable</i>           | (Optional) time-traceable                     |
| <i>freq-traceable</i>           | (Optional) freq-traceable                     |
| <i>ptp-timescale</i>            | (Optional) ptp-timescale                      |
| <i>time-source</i>              | (Optional) time-source                        |

### Command Mode

- /exec

**show ptp time-property**



## Q Show Commands

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- [show qos dcbxp incompatibility interface](#), on page 1952
- [show qos dcbxp info](#), on page 1954
- [show qos dcbxp interface](#), on page 1955
- [show queuing](#), on page 1957
- [show queuing pfc-queue](#), on page 1959
- [show queuing pfc-queue snmp ifIndex](#), on page 1961

## show qos dcbxp incompatibility interface

```
show qos dcbxp incompatibility interface <iface-num> [ __readonly__ { [ { TABLE_local_pfc <vl_id_lpfce>
[ <lpfc> ] } ] [ { TABLE_remote_pfc <vl_id_rpfce> [ <rpfc> ] } ] [ <mtu> ] [ { TABLE_lpg <vl_id_lpg> [
<cos_list_lpg> ] [ <bandwidth_lpg> ] } ] [ { TABLE_rpg <vl_id_rpg> [ <cos_list_rpg> ] [ <bandwidth_rpg>
] } ] [ <bw> ] [ <lfcoe> ] [ <rfoe> ] [ <liscsi> ] [ <riscsi> ] } ] }
```

### Syntax Description

|                      |                                    |
|----------------------|------------------------------------|
| show                 | Show running system information    |
| dcbxp                | DCBXP                              |
| incompatibility      | incompatibility information        |
| interface            | incompatibility info for interface |
| <i>iface-num</i>     | Interface                          |
| <i>__readonly__</i>  | (Optional)                         |
| TABLE_local_pfc      | (Optional) local pfc table         |
| <i>vl_id_lpfce</i>   | (Optional) vl ID for local PFC     |
| <i>lpfc</i>          | (Optional) local pfc               |
| TABLE_remote_pfc     | (Optional) remote pfc table        |
| <i>vl_id_rpfce</i>   | (Optional) vl ID for remote PFC    |
| <i>rpfc</i>          | (Optional) remote pfc              |
| <i>mtu</i>           | (Optional) MTU Value               |
| TABLE_lpg            | (Optional) LPG Table               |
| <i>vl_id_lpg</i>     | (Optional) vl ID for LPG           |
| <i>cos_list_lpg</i>  | (Optional) cos list for LPG        |
| <i>bandwidth_lpg</i> | (Optional) bandwidth for LPG       |
| TABLE_rpg            | (Optional) RPG Table               |
| <i>vl_id_rpg</i>     | (Optional) vl ID for RPG           |
| <i>cos_list_rpg</i>  | (Optional) cos list for RPG        |
| <i>bandwidth_rpg</i> | (Optional) bandwidth for RPG       |
| <i>bw</i>            | (Optional) CIN: bandwidth/priority |
| <i>lfcoe</i>         | (Optional) local fcoe              |



|               |                         |
|---------------|-------------------------|
| <i>rfcoe</i>  | (Optional) remote fcoe  |
| <i>liscsi</i> | (Optional) local iscsi  |
| <i>riscsi</i> | (Optional) remote iscsi |

**Command Mode**

- /exec

## show qos dcbxp info

```
show qos dcbxp info [ __readonly__ { TABLE_dcbxp <intf> <pfer> <pfcc> <pgr> <pgc> <mtur> <mtuc>
<fcoer> <fcoec> <iscsir> <iscsic> } ]
```

### Syntax Description

|               |                                 |
|---------------|---------------------------------|
| show          | Show running system information |
| dcbxp         | DCBXP                           |
| info          | information                     |
| __readonly__  | (Optional)                      |
| TABLE_dcbxp   | (Optional) dxcbsp info          |
| <i>intf</i>   | (Optional) Interface            |
| <i>pfer</i>   | (Optional) pfc recvd            |
| <i>pfcc</i>   | (Optional) pfc compatible       |
| <i>pgr</i>    | (Optional) pg received          |
| <i>pgc</i>    | (Optional) pg compatible        |
| <i>mtur</i>   | (Optional) mtu received         |
| <i>mtuc</i>   | (Optional) mtu compatible       |
| <i>fcoer</i>  | (Optional) fcoe received        |
| <i>fcoec</i>  | (Optional) fcoe compatible      |
| <i>iscsir</i> | (Optional) iscsi received       |
| <i>iscsic</i> | (Optional) iscsi compatible     |

### Command Mode

- /exec

## show qos dcbxp interface

```
show qos dcbxp interface [ <iface> ] [ __readonly__ [ <intf> { <info_absent> | { [ <local_pfc_cap>
<local_pfc_enable_list> ] [ <peers_pfc_cap> <peers_pfc_enable_list> ] [ <local_ets_maxtc>
<local_ets_priority_list> <local_ets_bandwidth_list> <local_ets_tsa_list> ] [ <peers_ets_maxtc>
<peers_ets_priority_list> <peers_ets_bandwidth_list> <peers_ets_tsa_list> ] [ <local_app_pri>
<local_app_type> <local_app_num> ] + [ <peers_app_pri> <peers_app_type> <peers_app_num> ] + [
<local_map_pri> <local_map_dscp> ] + [ <peers_map_pri> <peers_map_dscp> ] + } } ] + ]
```

### Syntax Description

|                                 |  |
|---------------------------------|--|
| show                            | Show running system information                          |
| qos                             | QoS  |
| dcbxp                           | DCBXP  |
| interface                       | Per-interface information                                |
| <i>iface</i>                    | (Optional) Interface                                     |
| <i>__readonly__</i>             | (Optional)   |
| <i>intf</i>                     | (Optional) Interface                                     |
| <i>info_absent</i>              | (Optional) No information is present for this Interface. |
| <i>local_pfc_cap</i>            | (Optional) Number of Local Flows                         |
| <i>local_pfc_enable_list</i>    | (Optional) List of Local Flows Enabled                   |
| <i>peers_pfc_cap</i>            | (Optional) Number of Peer Flows                          |
| <i>peers_pfc_enable_list</i>    | (Optional) List of Peer Flows Enabled                    |
| <i>local_ets_maxtc</i>          | (Optional) Local ETS Maximum Traffic Classes             |
| <i>local_ets_priority_list</i>  | (Optional) Local ETS Priority List                       |
| <i>local_ets_bandwidth_list</i> | (Optional) Local ETS Bandwidth List                      |
| <i>local_ets_tsa_list</i>       | (Optional) Local ETS TSA List                            |
| <i>peers_ets_maxtc</i>          | (Optional) Peer ETS Maximum Traffic Classes              |
| <i>peers_ets_priority_list</i>  | (Optional) Peer ETS Priority List                        |
| <i>peers_ets_bandwidth_list</i> | (Optional) Peer ETS Bandwidth List                       |
| <i>peers_ets_tsa_list</i>       | (Optional) Peer ETS TSA List                             |
| <i>local_app_pri</i>            | (Optional) Local Application Priority                    |
| <i>local_app_type</i>           | (Optional) Local Application Number Type                 |

|                       |   |
|-----------------------|---|
| <i>local_app_num</i>  | (Optional) Local Application Number     |
| <i>peers_app_pri</i>  | (Optional) Peer Application Priority    |
| <i>peers_app_type</i> | (Optional) Peer Application Number Type |
| <i>peers_app_num</i>  | (Optional) Peer Application Number      |
| <i>local_map_pri</i>  | (Optional) Local Map Priority           |
| <i>local_map_dscp</i> | (Optional) Local Map DSCP Value         |
| <i>peers_map_pri</i>  | (Optional) Peer Map Priority            |
| <i>peers_map_dscp</i> | (Optional) Peer Map DSCP Value          |

**Command Mode**

- /exec

# show queuing

```
show queuing [ interface [ <if_list> ] ] [ summary ] [ module <module> ] [ __readonly__ [
TABLE_interface_mtu <intf_name> <mtu_val> ] [ TABLE_queuing_interface <dir> <if_name_str> [
TABLE_qosgrp_cfg <qosgrp> [ <bandwidth> ] [ <priority> ] [ <shape-min> ] [ <shape-max> ] [ <shape-units>
] [ <buffer-size> ] [ <pause-threshold> ] [ <resume-threshold> ] [ <q-limit> ] [ <q-limit-type> ] ] [
<mc-drop-pkt> ] [ TABLE_qosgrp_egress_stats <eq-qosgrp> [ TABLE_qosgrp_egress_stats_entry
<eq-stat-type> <eq-stat-units> <eq-uc-stat-value> [ <eq-oobfc-uc-stat-value> ] [ <eq-mc-stat-value> ] ] ] [
TABLE_egress_stats_entry <ep-stat-type> <ep-stat-units> <ep-stat-value> ] [ TABLE_ingress_stats_entry
<ip-stat-type> <ip-stat-units> <ip-stat-value> ] [ <tx-ppp> <rx-ppp> [ TABLE_pfc_stats <cos> [ <pfc-qosgrp>
] [ <pfc-pg> ] <tx-pause-state> <tx-pause-count> <rx-pause-state> <rx-pause-count> ] ] ] ]
```

## Syntax Description

| show                    | commands to display                                |
|-------------------------|--|
| queuing                 | Queuing related information                        |
| interface               | (Optional) Interface for displaying queuing config |
| <i>if_list</i>          | (Optional) List of interfaces                      |
| module                  | (Optional) Slot/module                             |
| <i>module</i>           | (Optional) Slot/module number                      |
| summary                 | (Optional) summary                                 |
| <i>__readonly__</i>     | (Optional)   |
| TABLE_interface_mtu     | (Optional) mtu values of each interface            |
| <i>intf_name</i>        | (Optional) interface name                          |
| <i>mtu_val</i>          | (Optional) mtu val of interface                    |
| TABLE_queuing_interface | (Optional) Queuing information of an interface     |
| <i>dir</i>              | (Optional) Direction                               |
| <i>if_name_str</i>      | (Optional) interface name                          |
| TABLE_qosgrp_cfg        | (Optional) Qos-group configuration                 |
| <i>qosgrp</i>           | (Optional) Qos-group value                         |
| <i>bandwidth</i>        | (Optional) WRR bandwidth                           |
| <i>priority</i>         | (Optional) Priority level                          |
| <i>shape-units</i>      | (Optional) Shape units                             |
| <i>q-limit</i>          | (Optional) Queue limit                             |

|                                 |  |
|---------------------------------|--|
| <i>q-limit-type</i>             | (Optional) Queue limit type (S-Static, D-Dynamic, U-Unlimited) |
| TABLE_qosgrp_egress_stats       | (Optional) Qos-group egress statistics                         |
| <i>eq-qosgrp</i>                | (Optional) Qos-group value                                     |
| TABLE_qosgrp_egress_stats_entry | (Optional) Qos-group egress statistics entry                   |
| <i>eq-stat-type</i>             | (Optional) Qos-group egress statistics type                    |
| <i>eq-stat-units</i>            | (Optional) Qos-group egress statistics units                   |
| TABLE_egress_stats_entry        | (Optional) Egress port statistics                              |
| <i>ep-stat-type</i>             | (Optional) Egress port statistics type                         |
| <i>ep-stat-units</i>            | (Optional) Egress port statistics units                        |
| TABLE_ingress_stats_entry       | (Optional) Ingress port statistics                             |
| <i>ip-stat-type</i>             | (Optional) Ingress port statistics type                        |
| <i>ip-stat-units</i>            | (Optional) Ingress port statistics units                       |
| TABLE_pfc_stats                 | (Optional) Per COS PFC statistics                              |
| <i>cos</i>                      | (Optional) PFC COS   |
| <i>pfc-qosgrp</i>               | (Optional) Qos-group of the given COS                          |
| <i>pfc-pg</i>                   | (Optional) PG of the given COS/Qos-group                       |
| <i>tx-pause-state</i>           | (Optional) Tx PFC state of the given COS                       |
| <i>rx-pause-state</i>           | (Optional) Rx PFC state of the given COS                       |

### Command Mode

- /exec

## show queuing pfc-queue

```
show queuing pfc-queue [ interface <if_list> ] [ module <module> ] [ detail ] [ __readonly__ <glb-wd-status>
<glb-wd-force-status> <glb-wd-timer> <glb-wd-timer-thresh> <glb-auto-restore> <glb-fixed-restore>
<glb-int-intf-multi> [ TABLE_queuing_interface <if_name_str> <wd-status> [ <disable-action> ] [ <intf-multi>
] [ <vl-bmp> ] [ <qosgrp_7_state> ] [ <qosgrp_6_state> ] [ <qosgrp_5_state> ] [ <qosgrp_4_state> ] [
<qosgrp_3_state> ] [ <qosgrp_2_state> ] [ <qosgrp_1_state> ] [ <qosgrp_0_state> ] [ TABLE_qosgrp_stats
<eq-qosgrp> <eq-qosgrp-state> <pfc-configured> <pfc-cos> TABLE_qosgrp_stats_entry <q-stat-type> [
<q-shutdown> ] [ <q-restored> ] [ <q-pkt-drained> ] [ <q-pkt-dropped> ] [ <q-pkt-drained-n-dropped> ] [
<q-aggr-pkt-dropped> ] [ <q-ing-pkt-dropped> ] [ <q-ing-aggr-pkt-dropped> ] ] ] ]
```

### Syntax Description

| show                       | commands to display  |
|----------------------------|--|
| queuing                    | Queuing related information                                |
| pfc-queue                  | PFC Queuing related information                            |
| interface                  | (Optional) Interface for displaying queuing config         |
| <i>if_list</i>             | (Optional) List of interfaces                              |
| module                     | (Optional) Slot/module                                     |
| <i>module</i>              | (Optional) Slot/module number                              |
| detail                     | (Optional) Show detailed PFC Queuing WD information        |
| <i>__readonly__</i>        | (Optional)   |
| <i>glb-wd-status</i>       | (Optional) Global watch-dog timer status                   |
| <i>glb-wd-force-status</i> | (Optional) Global watch-dog forcestatus                    |
| <i>glb-wd-timer</i>        | (Optional) Global watch-dog timer value in msec            |
| <i>glb-wd-timer-thresh</i> | (Optional) Global watch-dog timer thresh value in ms       |
| <i>glb-auto-restore</i>    | (Optional) Global auto restore multiplier value            |
| <i>glb-fixed-restore</i>   | (Optional) Global fixed restore multiplier value           |
| <i>glb-int-intf-multi</i>  | (Optional) Global internal interface multiplier value      |
| <i>disable-action</i>      | (Optional) Only generate syslog for queue stuck, no action |
| <i>intf-multi</i>          | (Optional) Interface multiplier value                      |
| <i>if_name_str</i>         | (Optional) interface name                                  |
| TABLE_queuing_interface    | (Optional) Queuing information of an interface             |
| <i>wd-status</i>           | (Optional) PFC watch-dog status                            |

|                          |  |
|--------------------------|--|
| <i>vl-bmp</i>            | (Optional) VL Bitmap                         |
| <i>qosgrp_7_state</i>    | (Optional) Qos group 7 state                 |
| <i>qosgrp_6_state</i>    | (Optional) Qos group 6 state                 |
| <i>qosgrp_5_state</i>    | (Optional) Qos group 5 state                 |
| <i>qosgrp_4_state</i>    | (Optional) Qos group 4 state                 |
| <i>qosgrp_3_state</i>    | (Optional) Qos group 3 state                 |
| <i>qosgrp_2_state</i>    | (Optional) Qos group 2 state                 |
| <i>qosgrp_1_state</i>    | (Optional) Qos group 1 state                 |
| <i>qosgrp_0_state</i>    | (Optional) Qos group 0 state                 |
| TABLE_qosgrp_stats       | (Optional) Qos-group egress statistics       |
| <i>eq-qosgrp</i>         | (Optional) Qos-group value                   |
| <i>eq-qosgrp-state</i>   | (Optional) Qos-group state                   |
| <i>pfc-configured</i>    | (Optional) PFC configuration                 |
| <i>pfc-cos</i>           | (Optional) PFC Cos value                     |
| TABLE_qosgrp_stats_entry | (Optional) Qos-group egress statistics entry |
| <i>q-stat-type</i>       | (Optional) Queue stat                        |

**Command Mode**

- /exec



## show queuing pfc-queue snmp ifIndex

```
show queuing pfc-queue snmp ifIndex <ifidx> [ __readonly__ TABLE-cpfcWatchdogIfQueueInfoTable
<ifidx_out> <queueno_out> <q-state> <q-shutdown> <q-restored> <q-pkt-dropped> <q-aggr-pkt-dropped>
<q-ing-pkt-dropped> <q-ing-aggr-pkt-dropped> ]
```

### Syntax Description

|                                    |  |
|------------------------------------|--|
| show                               | Show running system information                          |
| queuing                            | Queuing related information                              |
| pfc-queue                          | PFC Queuing related information                          |
| snmp                               | Snmp information   |
| ifIndex                            | Interface index  |
| <i>ifidx</i>                       | Index  |
| <i>__readonly__</i>                | (Optional) Read Only                                     |
| TABLE-cpfcWatchdogIfQueueInfoTable | (Optional) SNMP table                                    |
| <i>ifidx_out</i>                   | (Optional) Interface index out                           |
| <i>queueno_out</i>                 | (Optional) Queue number out                              |
| <i>q-state</i>                     | (Optional) Queue state                                   |
| <i>q-shutdown</i>                  | (Optional) Number of times queue is shutdown             |
| <i>q-restored</i>                  | (Optional) Number of times queue is restored             |
| <i>q-pkt-dropped</i>               | (Optional) Number of packets dropped since last shutdown |
| <i>q-aggr-pkt-dropped</i>          | (Optional) Number of aggregate packets dropped           |
| <i>q-ing-pkt-dropped</i>           | (Optional) Number of Ingress packets dropped             |
| <i>q-ing-aggr-pkt-dropped</i>      | (Optional) Number of aggregate Ingress packets dropped   |

### Command Mode

- /exec

show queuing pfc-queue snmp ifIndex



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# show radius-cfs

```
show radius-cfs [ __readonly__ [ <distr_status> ] [ <session_status> ] [ <session_db> ] [ <merge_status> ] ]
```

## Syntax Description

|                       |                                       |
|-----------------------|---------------------------------------|
| show                  | Show running system information       |
| radius-cfs            | Show radius cfs state                 |
| <i>__readonly__</i>   | (Optional)                            |
| <i>distr_status</i>   | (Optional) radius distribution status |
| <i>session_status</i> | (Optional) current session status     |
| <i>session_db</i>     | (Optional) status of session db       |
| <i>merge_status</i>   | (Optional) radius merge status        |

## Command Mode

- /exec

## show radius-server

```
show radius-server [ __readonly__ [ <global_secretKey> ] { <global_timeout> <retransmissionCount>
<global_deadtime> } [ <global_source_intf> ] [ <global_idle_time> ] { [ <global_testUsername> ] [
<global_testPassword> ] } { <server_count> [ TABLE_server <server_ip> [ <auth_port> ] [ <acct_port> ]
[ <secretKey> ] [ <timeout> ] [ <retries> ] ] [ { <host0> <auth_port> <acct_port> <shared_key>
<idle_time><test_username> <test_password> } + ] ]
```

### Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information                                   |
| radius-server              | Show RADIUS configuration information                             |
| <i>__readonly__</i>        | (Optional)  |
| <i>global_secretKey</i>    | (Optional) Global shared secret                                   |
| <i>global_timeout</i>      | (Optional) Global timeout for radius                              |
| <i>retransmissionCount</i> | (Optional) Retransmission count when there is no server response  |
| <i>global_deadtime</i>     | (Optional) Global deadtime  |
| <i>global_source_intf</i>  | (Optional) Radius global source interface                         |
| <i>global_idle_time</i>    | (Optional) Radius global idle-time for server monitoring          |
| <i>global_testUsername</i> | (Optional) Username of global test parameters                     |
| <i>global_testPassword</i> | (Optional) Password of global test parameters                     |
| <i>server_count</i>        | (Optional) Total number of radius servers configured              |
| TABLE_server               | (Optional)  |
| <i>server_ip</i>           | (Optional) Ip address of the server                               |
| <i>auth_port</i>           | (Optional) Authentication port used for this server               |
| <i>acct_port</i>           | (Optional) Accounting Port used for this server                   |
| <i>secretKey</i>           | (Optional) Shared secret between the server and the radius client |
| <i>timeout</i>             | (Optional) Timeout for this radius server                         |
| <i>retries</i>             | (Optional) Retry count for individual servers                     |
| <i>host0</i>               | (Optional) DNS name or IP address                                 |
| <i>auth_port</i>           | (Optional) RADIUS server's port for authentication                |
| <i>acct_port</i>           | (Optional) RADIUS server's port for accounting                    |
| <i>shared_key</i>          | (Optional) RADIUS shared secret                                   |



|                      |  |
|----------------------|--|
| <i>test_password</i> | (Optional) User password in test packets |
|----------------------|--|

**Command Mode**

- /exec

## show radius-server

```
show radius-server { <host> } [ __readonly__ { <host1> } [ <authen_port> ] [ <account_port> ] [ <share_key> ] [ <timeout> ] [ <retries> ] [ <secure_radius> ] [ <aid> ] <idle_tim> <test_user_name> <test_pwd> ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                    |
| radius-server         | Show RADIUS configuration information              |
| <i>host</i>           | DNS name or IP address                             |
| <i>__readonly__</i>   | (Optional)   |
| <i>host1</i>          | (Optional) DNS name or IP address                  |
| <i>authen_port</i>    | (Optional) RADIUS server's port for authentication |
| <i>account_port</i>   | (Optional) RADIUS server's port for accounting     |
| <i>timeout</i>        | (Optional) radius server timeout                   |
| <i>retries</i>        | (Optional) radius server retry count               |
| <i>secure_radius</i>  | (Optional) secure radius enabled or not            |
| <i>aid</i>            | (Optional) Authority identity                      |
| <i>share_key</i>      | (Optional) RADIUS shared secret                    |
| <i>test_user_name</i> | (Optional) User name in test packets               |
| <i>test_pwd</i>       | (Optional) User password in test packets           |
| <i>idle_tim</i>       | (Optional) Time interval for monitoring the server |

### Command Mode

- /exec

# show radius-server directed-request

```
show radius-server directed-request [ __readonly__ { <radius_directedRequest_status> } ]
```

## Syntax Description

|                                      |   |
|--------------------------------------|---|
| show                                 | Show running system information                     |
| radius-server                        | Show RADIUS configuration information               |
| directed-request                     | Show directed server enable configuration           |
| <i>__readonly__</i>                  | (Optional)  |
| <i>radius_directedRequest_status</i> | (Optional) status of radius-server directed request |

## Command Mode

- /exec

# show radius-server groups

```
show radius-server groups [ <s0> ] [ __readonly__ [ <num_of_groups> ] TABLE_group <group_name> [
TABLE_server <server_ip> [ <auth_port> ] [ <acct_port> ] ] [ <dead_time> ] [ <vrf_name> ] [
<source_interface> ] ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information   |
| radius-server           | Show RADIUS configuration information   |
| groups                  | Show RADIUS server group configuration information  |
| <i>s0</i>               | (Optional) RADIUS server group name   |
| <i>__readonly__</i>     | (Optional)  |
| <i>num_of_groups</i>    | (Optional) number of groups   |
| TABLE_group             | (Optional)  |
| <i>group_name</i>       | (Optional) name of the group  |
| TABLE_server            | (Optional)  |
| <i>server_ip</i>        | (Optional) DNS name or IP address   |
| <i>auth_port</i>        | (Optional) radius server authentication port  |
| <i>acct_port</i>        | (Optional) radius server accounting port  |
| <i>dead_time</i>        | (Optional) Time interval for which the server is marked as dead before sending a test command |
| <i>vrf_name</i>         | (Optional) name of the vrf  |
| <i>source_interface</i> | (Optional) Interface Description  |

## Command Mode

- /exec

## show radius-server sorted

```
show radius-server sorted [ __readonly__ [ <global_secretKey> ] { <global_timeout> <retransmissionCount>
<global_deadtime> } [ <global_source_intf> ] [ <global_idle_time> ] { [ <global_testUsername> ] [
<global_testPassword> ] } { <server_count> } [ TABLE_server <server_ip> [ <auth_port> ] [ <acct_port> ]
[ <secretKey> ] [ <timeout> ] [ <retries> ] ] ]
```

### Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information                                   |
| radius-server              | Show RADIUS configuration information                             |
| sorted                     | Show RADIUS servers sorted by name                                |
| <i>__readonly__</i>        | (Optional)  |
| <i>global_secretKey</i>    | (Optional) Global shared secret                                   |
| <i>global_timeout</i>      | (Optional) Global timeout for radius                              |
| <i>retransmissionCount</i> | (Optional) Retransmission count when there is no server response  |
| <i>global_deadtime</i>     | (Optional) Global deadtime  |
| <i>global_source_intf</i>  | (Optional) Radius global source interface                         |
| <i>global_idle_time</i>    | (Optional) Radius global idle-time for server monitoring          |
| <i>global_testUsername</i> | (Optional) Username of global test parameters                     |
| <i>global_testPassword</i> | (Optional) Password of global test parameters                     |
| <i>server_count</i>        | (Optional) Total number of radius servers configured              |
| TABLE_server               | (Optional)  |
| <i>server_ip</i>           | (Optional) Ip address of the server                               |
| <i>auth_port</i>           | (Optional) Authentication port used for this server               |
| <i>acct_port</i>           | (Optional) Accounting Port used for this server                   |
| <i>secretKey</i>           | (Optional) Shared secret between the server and the radius client |
| <i>timeout</i>             | (Optional) Timeout for this radius server                         |
| <i>retries</i>             | (Optional) Retry count for individual servers                     |

### Command Mode

- /exec

## show radius-server statistics

```
show radius-server statistics <host0> [ __readonly__ { <server_state> [ <clock_time> { monitoring_statistics
<time_in_pstate> <ndead> <tt_in_dstate> } ] } { auth_statistics <auth_failed_transactions>
<auth_succ_transactions> <auth_req_sent> <auth_req_timedout> <auth_resp_no_match>
<auth_resp_not_processed> <auth_resp_error> } { acct_statistics <acct_failed_transactions>
<acct_succ_transactions> <acct_req_sent> <acct_req_timedout> <acct_resp_no_match>
<acct_resp_not_processed> <acct_resp_error> } } ]
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information                                   |
| radius-server                   | Show RADIUS configuration information                             |
| statistics                      | Show RADIUS statistics  |
| <i>host0</i>                    | DNS name or IP address  |
| <i>__readonly__</i>             | (Optional)  |
| <i>server_state</i>             | (Optional) Show state of server                                   |
| <i>clock_time</i>               | (Optional) Show clock time in terms of hours, minutes and seconds |
| <i>monitoring_statistics</i>    | (Optional) Monitoring Statistics                                  |
| <i>time_in_pstate</i>           | (Optional) Time in previous state                                 |
| <i>ndead</i>                    | (Optional) Number of times dead                                   |
| <i>tt_in_dstate</i>             | (Optional) Total time in dead state                               |
| <i>auth_statistics</i>          | (Optional) Authentication Statistics                              |
| <i>acct_statistics</i>          | (Optional) Accounting Statistics                                  |
| <i>auth_failed_transactions</i> | (Optional) Authentication: Failed transactions                    |
| <i>auth_succ_transactions</i>   | (Optional) Authentication: Successful transactions                |
| <i>auth_req_sent</i>            | (Optional) Authentication: Requests sent                          |
| <i>auth_req_timedout</i>        | (Optional) Authentication: Requests timedout                      |
| <i>auth_resp_no_match</i>       | (Optional) Authentication: Responses with no matching requests    |
| <i>auth_resp_not_processed</i>  | (Optional) Authentication: Responses not processed                |
| <i>auth_resp_error</i>          | (Optional) Authentication: Responses containing errors            |
| <i>acct_failed_transactions</i> | (Optional) Accounting: Failed transactions                        |
| <i>acct_succ_transactions</i>   | (Optional) Accounting: Successful transactions                    |

|                                |  |
|--------------------------------|--|
| <i>acct_req_sent</i>           | (Optional) Accounting: Requests sent                       |
| <i>acct_req_timedout</i>       | (Optional) Accounting: Requests timedout                   |
| <i>acct_resp_no_match</i>      | (Optional) Accounting: Responses with no matching requests |
| <i>acct_resp_not_processed</i> | (Optional) Accounting: Responses not processed             |
| <i>acct_resp_error</i>         | (Optional) Accounting: Responses containing errors         |

**Command Mode**

- /exec

## show radius status

```
show radius status [ __readonly__ [ <distr_status> ] [ <session_status> ] [ <session_owner> ] [ <session_db> ] [ <last_operation> ] [ <last_operation_status> ] [ <fail_code> ] ]
```

### Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show running system information                      |
| radius                       | Show RADIUS Information                              |
| status                       | Show RADIUS cfs distribution status                  |
| <i>__readonly__</i>          | (Optional)   |
| <i>distr_status</i>          | (Optional) radius distribution status                |
| <i>session_status</i>        | (Optional) current session status                    |
| <i>session_owner</i>         | (Optional) owner of the current distribution session |
| <i>session_db</i>            | (Optional) status of session db                      |
| <i>last_operation</i>        | (Optional) last_operation                            |
| <i>last_operation_status</i> | (Optional) status of the last operation              |
| <i>fail_code</i>             | (Optional) reason for the failure of last operation  |

### Command Mode

- /exec



# show redundancy status

```
show redundancy status [ __readonly__ <rmode_admin> <rmode_opr> <this_sup> <this_sup_rd_st>
<this_sup_sup_st> <this_sup_int_st> <oth_sup> <oth_sup_rd_st> <oth_sup_sup_st> <oth_sup_int_st>
<sys_strt_time> <sys_uptm_days> <sys_uptm_hrs> <sys_uptm_mins> <sys_uptm_secs> <kern_uptm_days>
<kern_uptm_hrs> <kern_uptm_mins> <kern_uptm_secs> <asup_uptm_days> <asup_uptm_hrs>
<asup_uptm_mins> <asup_uptm_secs> ]
```

## Syntax Description

|                        |                               |
|------------------------|-------------------------------|
| show                   |                               |
| redundancy             | Show system redundancy status |
| status                 | Current redundancy status     |
| <i>__readonly__</i>    | (Optional)                    |
| <i>rmode_admin</i>     | (Optional)                    |
| <i>rmode_opr</i>       | (Optional)                    |
| <i>this_sup</i>        | (Optional)                    |
| <i>this_sup_rd_st</i>  | (Optional)                    |
| <i>this_sup_sup_st</i> | (Optional)                    |
| <i>this_sup_int_st</i> | (Optional)                    |
| <i>oth_sup</i>         | (Optional)                    |
| <i>oth_sup_rd_st</i>   | (Optional)                    |
| <i>oth_sup_sup_st</i>  | (Optional)                    |
| <i>oth_sup_int_st</i>  | (Optional)                    |
| <i>sys_strt_time</i>   | (Optional)                    |
| <i>sys_uptm_days</i>   | (Optional)                    |
| <i>sys_uptm_hrs</i>    | (Optional)                    |
| <i>sys_uptm_mins</i>   | (Optional)                    |
| <i>sys_uptm_secs</i>   | (Optional)                    |
| <i>kern_uptm_days</i>  | (Optional)                    |
| <i>kern_uptm_hrs</i>   | (Optional)                    |
| <i>kern_uptm_mins</i>  | (Optional)                    |
| <i>kern_uptm_secs</i>  | (Optional)                    |

|                       |            |
|-----------------------|------------|
| <i>asup_uptm_days</i> | (Optional) |
| <i>asup_uptm_hrs</i>  | (Optional) |
| <i>asup_uptm_mins</i> | (Optional) |
| <i>asup_uptm_secs</i> | (Optional) |

**Command Mode**

- /exec

# show regexp

```
show { ip mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] all | ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ ipv4 { unicast | multicast } ] } regexp <regexp-str> [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                                 |
| ip                    | Display IP information  |
| bgp                   | Display BGP status and configuration                            |
| mbgp                  | Display MBGP status and configuration                           |
| vrf                   | (Optional) Virtual Router Context                               |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                       |
| ipv4                  | (Optional) Display BGP information for IPv4 address family      |
| unicast               | (Optional) Display BGP information for unicast address family   |
| multicast             | (Optional) Display BGP information for multicast address family |
| all                   | Display BGP information for all address families                |
| regexp                | Display routes matching the AS path regular expression          |
| <i>regexp-str</i>     | Regular expression to match the AS paths                        |

## Command Mode

- /exec

# show reload

show reload [ \_\_readonly\_\_ <reload-schedule> ]

## Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information            |
| reload                 | Display information about scheduled reload |
| __readonly__           | (Optional)                                 |
| <i>reload-schedule</i> | (Optional) Reload scheduling info          |

## Command Mode

- /exec

# show resource

```
show resource [ <res-mgr-res-known-name> ] [ hidden-too | with-flags ] [ __readonly__ {
TABLE_vdc_resource_local <res_name> <min> <max> <used> <unused> <free> } ]
```

## Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information                                  |
| resource                      | Show resource configuration for VDC                              |
| <i>res-mgr-res-known-name</i> | (Optional) Resource name   |
| hidden-too                    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                        |
| with-flags                    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                        |
| <u>__readonly__</u>           | (Optional) Read Only   |
| TABLE_vdc_resource_local      | (Optional)   |
| <i>res_name</i>               | (Optional) Resource Name   |
| <i>min</i>                    | (Optional) Resource min configuration                            |
| <i>max</i>                    | (Optional) Resource max configuration                            |
| <i>used</i>                   | (Optional) Resource current usage for this VDC                   |
| <i>unused</i>                 | (Optional) Resource reserved for this VDC but currently not used |
| <i>free</i>                   | (Optional) Resource current free for this VDC                    |

## Command Mode

- /exec

## show rmon

```
show rmon { alarms | events | hcalarms | info | logs } [ __readonly__ [ TABLE_rmon_alarm { <alarm-str>
<ascii-buf-str> <samp-type-str> <ris-trshod-str> <fall-trshod-str> <start-enable-str> } ] [ TABLE_rmon_event
{ <ev-alaran-str> <ev-desc-str> <ev-fir-cause> <last-fired> } ] [ TABLE_rmon_hcala { <hc-alaran-str>
<hc-ascii-buf-str> <hc-sam-ty-str> <hc-ris-thresh-str> <hc-fal-thresh-str> <start-alm-str> <fail-attem-str> }
] [ TABLE_rmon_info { <max-32-64-ala-str> <max-conf-32-ala-str> <max-conf-64-ala-str> } ] [
TABLE_rmon_log { <event-id-str> <rmon-pch> [ <log-buff-str> ] <log-oid> } ] ]
```

### Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information                |
| rmon                    | Display RMON statistics                        |
| alarms                  | Display the RMON alarm table                   |
| events                  | Display the RMON event table                   |
| hcalarms                | Display the RMON HC(High Capacity) Alarm table |
| info                    | Display the RMON info                          |
| logs                    | Display the RMON event log table               |
| __readonly__            | (Optional)                                     |
| TABLE_rmon_alarm        | (Optional)                                     |
| <i>alarm-str</i>        | (Optional)                                     |
| <i>ascii-buf-str</i>    | (Optional)                                     |
| <i>samp-type-str</i>    | (Optional)                                     |
| <i>ris-trshod-str</i>   | (Optional)                                     |
| <i>fall-trshod-str</i>  | (Optional)                                     |
| <i>start-enable-str</i> | (Optional)                                     |
| TABLE_rmon_event        | (Optional)                                     |
| <i>ev-alaran-str</i>    | (Optional)                                     |
| <i>ev-desc-str</i>      | (Optional)                                     |
| <i>ev-fir-cause</i>     | (Optional)                                     |
| <i>last-fired</i>       | (Optional)                                     |
| TABLE_rmon_hcala        | (Optional)                                     |
| <i>hc-alaran-str</i>    | (Optional)                                     |

|                            |            |
|----------------------------|------------|
| <i>hc-ascii-buf-str</i>    | (Optional) |
| <i>hc-sam-ty-str</i>       | (Optional) |
| <i>hc-ris-thresh-str</i>   | (Optional) |
| <i>hc-fal-thresh-str</i>   | (Optional) |
| <i>start-alm-str</i>       | (Optional) |
| <i>fail-attem-str</i>      | (Optional) |
| TABLE_rmon_info            | (Optional) |
| <i>max-32-64-ala-str</i>   | (Optional) |
| <i>max-conf-32-ala-str</i> | (Optional) |
| <i>max-conf-64-ala-str</i> | (Optional) |
| TABLE_rmon_log             | (Optional) |
| <i>event-id-str</i>        | (Optional) |
| <i>rmon-pch</i>            | (Optional) |
| <i>log-buff-str</i>        | (Optional) |
| <i>log-oid</i>             | (Optional) |

### Command Mode

- /exec

# show role

```
show role [ name <arg3> ] [ __readonly__ { TABLE_role <role_name> <role_description> [ <attribute_scope> ] [ <permit_vsan> ] [ <permit_vlan> ] [ <permit_vlan_id> ] [ <permit_interface> ] [ <permit_interface_slot> ] [ <permit_vrf> ] [ TABLE_vrf<permit_vrf_name> ] [ { TABLE_rule <rule_num> <rule_action> { <rule_permission> | <rule_permission_mds> } [ <rule_featuretype> ] [ <rule_entity> ] } } ]
```

## Syntax Description

|                       |                                 |
|-----------------------|---------------------------------|
| show                  | Show running system information |
| role                  | Show role configuration         |
| name                  | (Optional) Enter the role name  |
| arg3                  | (Optional) Enter the role name  |
| __readonly__          | (Optional)                      |
| TABLE_role            | (Optional)                      |
| role_name             | (Optional)                      |
| role_description      | (Optional)                      |
| attribute_scope       | (Optional)                      |
| permit_vsan           | (Optional)                      |
| permit_vlan           | (Optional)                      |
| permit_vlan_id        | (Optional)                      |
| permit_interface      | (Optional)                      |
| permit_interface_slot | (Optional)                      |
| permit_vrf            | (Optional)                      |
| TABLE_rule            | (Optional)                      |
| rule_num              | (Optional)                      |
| rule_action           | (Optional)                      |
| rule_permission       | (Optional)                      |
| rule_permission_mds   | (Optional)                      |
| rule_featuretype      | (Optional)                      |
| rule_entity           | (Optional)                      |

## Command Mode



- /exec

## show role feature-group

```
show role feature-group [ name <arg4> ] [ detail ] [ __readonly__ TABLE_role_feature_group
<feature_group_name> TABLE_role_feature <feature_name> [ TABLE_role_feature_rule <feature_rule> ]
]
```

### Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information                         |
| role                      | Show role configuration                                 |
| feature-group             | Role feature group                                      |
| name                      | (Optional) Enter the feature-group name                 |
| <i>arg4</i>               | (Optional) Feature-group name                           |
| detail                    | (Optional) Detailed information including feature rules |
| <i>__readonly__</i>       | (Optional)  |
| TABLE_role_feature_group  | (Optional)  |
| <i>feature_group_name</i> | (Optional)  |
| TABLE_role_feature        | (Optional)  |
| <i>feature_name</i>       | (Optional)  |
| TABLE_role_feature_rule   | (Optional)  |
| <i>feature_rule</i>       | (Optional)  |

### Command Mode

- /exec

# show role feature

```
show role feature [ name <arg5> | detail ] [ __readonly__ TABLE_role_feature <feature_name> [
TABLE_role_feature_rule <feature_rule> ] ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                         |
| role                    | Show role configuration                                 |
| feature                 | Role feature  |
| name                    | (Optional) Enter the feature name                       |
| <i>arg5</i>             | (Optional) Feature name                                 |
| detail                  | (Optional) Detailed information including feature rules |
| <i>__readonly__</i>     | (Optional)  |
| TABLE_role_feature      | (Optional)  |
| <i>feature_name</i>     | (Optional)  |
| TABLE_role_feature_rule | (Optional)  |
| <i>feature_rule</i>     | (Optional)  |

## Command Mode

- /exec

# show rollback log exec

```
show rollback log { exec | verify } [ __readonly__ [ <log_entry> + ] ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information        |
| rollback            | Show rollback                          |
| log                 | show rollback log                      |
| exec                | show rollback execution log            |
| verify              | show rollback verify log               |
| <i>__readonly__</i> | (Optional) Read only                   |
| <i>log_entry</i>    | (Optional) log entry from rollback log |

## Command Mode

- /exec

## show rollback status

```
show rollback status [ __readonly__ <last_operation> [ <rollback_type> ] [ <name> ] [ <start_time> ] [ <end_time> ] [ <operation_status> ] ]
```

### Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information        |
| rollback                | show rollback                          |
| status                  | show status of last rollback operation |
| <i>__readonly__</i>     | (Optional) Read only                   |
| <i>last_operation</i>   | (Optional) last operation              |
| <i>rollback_type</i>    | (Optional) rollback type               |
| <i>name</i>             | (Optional) name                        |
| <i>start_time</i>       | (Optional) start time                  |
| <i>end_time</i>         | (Optional) end time                    |
| <i>operation_status</i> | (Optional) operation status            |

### Command Mode

- /exec

# show route-map

```
show route-map [ <route-map-name> | <route-map-cfg-name> ] [ __readonly__ TABLE_rmap <name>
<action> <seq> [ <descript> ] [ <continue> ] [ { TABLE_rmap_match <match_type> <match_stmt> } ] [ {
TABLE_rmap_set <set_type> <set_stmt> } ] ]
```

## Syntax Description

|                           |                                 |
|---------------------------|---------------------------------|
| show                      | Show running system information |
| route-map                 | Route-map information           |
| <i>route-map-name</i>     | (Optional) Route-map name       |
| <i>route-map-cfg-name</i> | (Optional) Known route-map name |
| <i>__readonly__</i>       | (Optional)                      |
| TABLE_rmap                | (Optional)                      |
| TABLE_rmap_match          | (Optional)                      |
| TABLE_rmap_set            | (Optional)                      |
| <i>name</i>               | (Optional)                      |
| <i>action</i>             | (Optional)                      |
| <i>seq</i>                | (Optional)                      |
| <i>descript</i>           | (Optional)                      |
| <i>continue</i>           | (Optional)                      |
| <i>match_type</i>         | (Optional)                      |
| <i>match_stmt</i>         | (Optional)                      |
| <i>set_type</i>           | (Optional)                      |
| <i>set_stmt</i>           | (Optional)                      |

## Command Mode

- /exec

## show route-map pbr-statistics

```
show route-map { <pbr_rmap_name> | <pbr_rmap_cfg_name> } pbr-statistics [ __readonly__ TABLE_rmap
{ TABLE_pbr <tag> <action> <seq> <pbr_pkt_count> } <dflt_rtg_pkt_count> ]
```

### Syntax Description

|                           |                                 |
|---------------------------|---------------------------------|
| show                      | Show running system information |
| route-map                 | Route-map information           |
| <i>pbr_rmap_name</i>      | Route-map name                  |
| <i>pbr_rmap_cfg_name</i>  | Known route-map name            |
| pbr-statistics            | PBR statistics                  |
| <i>__readonly__</i>       | (Optional)                      |
| TABLE_rmap                | (Optional)                      |
| TABLE_pbr                 | (Optional)                      |
| <i>tag</i>                | (Optional)                      |
| <i>action</i>             | (Optional)                      |
| <i>seq</i>                | (Optional)                      |
| <i>pbr_pkt_count</i>      | (Optional)                      |
| <i>dflt_rtg_pkt_count</i> | (Optional)                      |

### Command Mode

- /exec

## show router-guard

```
show router-guard [ vlan <vlan_id> ] [ __readonly__ [ TABLE_vlanid { <vlanid>
<globally-enabled-switch-port> } [ TABLE_if [ <disabled-if> ] ] ] ] ]
```

### Syntax Description

|                                     |  |
|-------------------------------------|--|
| show                                | Show running system information                      |
| router-guard                        | Shows router guard config details for all interfaces |
| vlan                                | (Optional) Only for the specified VLAN               |
| <i>vlan_id</i>                      | (Optional) VLAN ID                                   |
| <i>__readonly__</i>                 | (Optional)   |
| TABLE_vlanid                        | (Optional)   |
| <i>vlanid</i>                       | (Optional)   |
| <i>globally-enabled-switch-port</i> | (Optional)   |
| TABLE_if                            | (Optional)   |
| <i>disabled-if</i>                  | (Optional)   |

### Command Mode

- /exec



# show routing-context

show routing-context [ \_\_readonly\_\_ <routing-con> ]

## Syntax Description

|                    |                                     |
|--------------------|-------------------------------------|
| show               | Show running system information     |
| routing-context    | Display the current routing context |
| __readonly__       | (Optional)                          |
| <i>routing-con</i> | (Optional)                          |

## Command Mode

- /exec

## show routing

```
show routing [ ip | ipv4 ] [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ip-addr> | {
<ip-prefix> [ { longer-prefixes | shorter-prefixes } ] ] [ { <protocol> [ all ] } | { bind-label <bind-lbl> |
next-hop <next-hop> | next-hop-v6 <next-hop-v6> } | { interface <interface> } | { updated { [ since <stime>
] [ until <utime> ] } } ] + [ summary | detail ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [
__readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [ TABLE_prefix <ipprefix> <ucast-nhops>
<mcast-nhops> <attached> TABLE_path [ <ipnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl>
] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <unres> ] [ <hidden> ] [
<stale-label> ] [ <bgpbackuppath> ] [ <ubest> ] [ <mbest> ] ] [ TABLE_summary <routes> <paths> [
<multicast_paths> ] [ TABLE_unicast [ <clientnameuni> ] [ <best-paths> ] [ <backup-paths> ] ] [
TABLE_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE_route_count [
<mask_len> ] [ <count> ] ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                                 |
| routing               | Display routing information                                     |
| vrf                   | (Optional) Display per-VRF information                          |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                       |
| vrf-all               | (Optional) Display information for all VRFs                     |
| ip                    | (Optional) Display IP information                               |
| ipv4                  | (Optional) Display IP information                               |
| unicast               | (Optional) Display unicast information                          |
| topology              | (Optional) Display per-topology information                     |
| <i>topology-name</i>  | (Optional) topology name  |
| l3vm-info             | (Optional) Display corresponding L3VM information               |
| rpf                   | (Optional) Display RPF information for multicast source         |
| <i>ip-addr</i>        | (Optional) Display single route longest match lookup            |
| <i>ip-prefix</i>      | (Optional) Display single exact match route                     |
| longer-prefixes       | (Optional) Display matching routes with mask-lengths >= prefix  |
| shorter-prefixes      | (Optional) Display matching routes with mask-lengths <= prefix  |
| <i>protocol</i>       | (Optional) Display routes for protocol (or route type)          |
| all                   | (Optional) Display routes for protocol for backup next-hops too |

|                         |   |
|-------------------------|---|
| bind-label              | (Optional) Display routes with this bind-label only         |
| <i>bind-lbl</i>         | (Optional) Binding label                                    |
| next-hop                | (Optional) Display routes with this next-hop only           |
| <i>next-hop</i>         | (Optional) Next hop address                                 |
| next-hop-v6             | (Optional) Display routes with this V6 next-hop only        |
| interface               | (Optional) Display routes with this output interface only   |
| <i>interface</i>        | (Optional) Interface Name                                   |
| updated                 | (Optional) Display routes filtered by last updated time     |
| since                   | (Optional) Display those routes updated since this time     |
| <i>stime</i>            | (Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS] |
| until                   | (Optional) Display those routes updated until this time     |
| <i>utime</i>            | (Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS] |
| summary                 | (Optional) Display route counts                             |
| detail                  | (Optional) Display routes in full detail                    |
| <u>__readonly__</u>     | (Optional)  |
| TABLE_vrf               | (Optional)  |
| <i>vrf-name-out</i>     | (Optional)  |
| TABLE_addrf             | (Optional)  |
| <i>addrf</i>            | (Optional)  |
| TABLE_prefix            | (Optional)  |
| <i>ipprefix</i>         | (Optional)  |
| <i>ucast-nhops</i>      | (Optional)  |
| <i>mcast-nhops</i>      | (Optional)  |
| <i>attached</i>         | (Optional)  |
| TABLE_path              | (Optional)  |
| <i>ipnexthop</i>        | (Optional)  |
| <i>nexthop-vrf-name</i> | (Optional)  |
| <i>ifname</i>           | (Optional)  |
| <i>bindlbl</i>          | (Optional)  |

|                        |            |
|------------------------|------------|
| <i>uptime</i>          | (Optional) |
| <i>pref</i>            | (Optional) |
| <i>metric</i>          | (Optional) |
| <i>clientname</i>      | (Optional) |
| <i>type</i>            | (Optional) |
| <i>tag</i>             | (Optional) |
| <i>stale</i>           | (Optional) |
| <i>unres</i>           | (Optional) |
| <i>hidden</i>          | (Optional) |
| <i>stale-label</i>     | (Optional) |
| <i>bgpbackuppath</i>   | (Optional) |
| <i>ubest</i>           | (Optional) |
| <i>mbest</i>           | (Optional) |
| TABLE_summary          | (Optional) |
| <i>routes</i>          | (Optional) |
| <i>paths</i>           | (Optional) |
| <i>multicast_paths</i> | (Optional) |
| TABLE_unicast          | (Optional) |
| <i>clientnameuni</i>   | (Optional) |
| <i>best-paths</i>      | (Optional) |
| <i>backup-paths</i>    | (Optional) |
| TABLE_multicast        | (Optional) |
| <i>clientnamemulti</i> | (Optional) |
| <i>best-paths</i>      | (Optional) |
| <i>backup-paths</i>    | (Optional) |
| TABLE_route_count      | (Optional) |
| <i>mask_len</i>        | (Optional) |
| <i>count</i>           | (Optional) |

**Command Mode**

- /exec

## show routing clients

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] clients [ <client> | <protocol> ] [ __readonly__ { TABLE_client <client_name>
<pib_index> <epid> [ <mts_sap> ] [ <mts_sap_str> ] <mru_cache_hits> <mru_cache_misses> <pib_stale_time>
<pss_created> [ <bad_l3vm_table_refcount> ] [ <pib_stale_timer> ] [ { TABLE_nib_node
<uribtibtype_contextname> [ <all_igp> ] [ <self> ] [ <all> ] [ <unib_notify_mask> ] <routes> <rnhs> <labels>
[ <convg_req_mask> ] [ <convg_send_mask> ] [ <utib_state> ] [ <pending_timer> ] [ <urib_state_invalid>
} ] [ { TABLE_msgs_rcvd <urib_mtype_str> <upib_rcvd> } ] [ { TABLE_msgs_sent <urib_mtype_str>
<upib_sent> } ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                   |
| routing               | Display routing information                       |
| vrf                   | (Optional) Display per-VRF information            |
| <i>vrf-name</i>       | (Optional) VRF name                               |
| <i>vrf-known-name</i> | (Optional) Known VRF name                         |
| vrf-all               | (Optional) Display information for all VRFs       |
| topology              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED         |
| <i>topology-name</i>  | (Optional) topology name                          |
| ip                    | (Optional) Display IP information                 |
| ipv4                  | (Optional) Display IP information                 |
| unicast               | (Optional) Display unicast information            |
| clients               | Display urib client information                   |
| <i>client</i>         | (Optional) Display single urib client information |
| <i>protocol</i>       | (Optional) Display single urib client information |
| __readonly__          | (Optional)  |
| TABLE_client          | (Optional)  |
| <i>client_name</i>    | (Optional)  |
| <i>pib_index</i>      | (Optional)  |
| <i>epid</i>           | (Optional)  |
| <i>mts_sap</i>        | (Optional)  |
| <i>mts_sap_str</i>    | (Optional)  |

|                                |            |
|--------------------------------|------------|
| <i>mru_cache_hits</i>          | (Optional) |
| <i>mru_cache_misses</i>        | (Optional) |
| <i>pib_stale_time</i>          | (Optional) |
| <i>pss_created</i>             | (Optional) |
| <i>bad_l3vm_table_refcount</i> | (Optional) |
| <i>pib_stale_timer</i>         | (Optional) |
| TABLE_nib_node                 | (Optional) |
| <i>uribtibtype_contextname</i> | (Optional) |
| <i>all_igp</i>                 | (Optional) |
| <i>self</i>                    | (Optional) |
| <i>all</i>                     | (Optional) |
| <i>unib_notify_mask</i>        | (Optional) |
| <i>routes</i>                  | (Optional) |
| <i>rnhs</i>                    | (Optional) |
| <i>labels</i>                  | (Optional) |
| <i>convg_req_mask</i>          | (Optional) |
| <i>convg_send_mask</i>         | (Optional) |
| <i>utib_state</i>              | (Optional) |
| <i>pending_timer</i>           | (Optional) |
| <i>urib_state_invalid</i>      | (Optional) |
| TABLE_msgs_rcvd                | (Optional) |
| <i>urib_mtype_str</i>          | (Optional) |
| <i>upib_rcvd</i>               | (Optional) |
| TABLE_msgs_sent                | (Optional) |
| <i>urib_mtype_str</i>          | (Optional) |
| <i>upib_sent</i>               | (Optional) |

**Command Mode**

- /exec

## show routing hash

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] hash <source> <dest> [ ip-proto <ip-proto> ] { { [ gtpu-teid <gtpu-teid> ] } } { [ <src-port>
<dest-port> ] } [ in-interface <in-interface> ] [ module <module-id> ] [ vrf { <vrf-name> | <vrf-known-name>
| <vrf-all> } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> TABLE_hashpath <mcast>
<hashpath> <hash-val> TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path
<ubest> <mbest> <ipnexthop> <ifname> <pref> <metric> <uptime> <clientname> [ <type> ] [ <tag> ] [
<stale> ] [ <unres> ] [ <hidden> ] [ <stale-label> ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information   |
| routing               | Display routing information   |
| vrf                   | (Optional) Display per-VRF information  |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name   |
| vrf-all               | (Optional) Display information for all VRFs                                     |
| ip                    | (Optional) Display IP information   |
| ipv4                  | (Optional) Display IP information   |
| unicast               | (Optional) Display unicast information  |
| topology              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                                       |
| <i>topology-name</i>  | (Optional) topology name  |
| hash                  | Display load-balancing hash information   |
| <i>source</i>         | Source IPv4 address of unicast flow or group address for multicast flow         |
| <i>dest</i>           | Destination IPv4 address of unicast flow or source address for multicast flow   |
| <i>src-port</i>       | (Optional) Source-port  |
| <i>dest-port</i>      | (Optional) Destination-port   |
| in-interface          | (Optional) Incoming Interface for Packet.Option valid on Tomahawk platform only |
| <i>in-interface</i>   | (Optional) Interface Name   |
| ip-proto              | (Optional) IP Protocol information for the packet                               |
| <i>ip-proto</i>       | (Optional) IP Protocol information for the packet                               |



|                             |                                     |
|-----------------------------|-------------------------------------|
| <code>gtpu-teid</code>      | (Optional) GTPu TEID for the packet |
| <i>gtpu-teid</i>            | (Optional) GTPu TEID for the packet |
| <code>module</code>         | (Optional) Module                   |
| <i>module-id</i>            | (Optional) Module                   |
| <code>__readonly__</code>   | (Optional)                          |
| <code>TABLE_vrf</code>      | (Optional)                          |
| <i>vrf-name-out</i>         | (Optional)                          |
| <code>TABLE_addrf</code>    | (Optional)                          |
| <i>addrf</i>                | (Optional)                          |
| <code>TABLE_hashpath</code> | (Optional)                          |
| <i>mcast</i>                | (Optional)                          |
| <i>hashpath</i>             | (Optional)                          |
| <i>hash-val</i>             | (Optional)                          |
| <code>TABLE_prefix</code>   | (Optional)                          |
| <i>ipprefix</i>             | (Optional)                          |
| <i>ucast-nhops</i>          | (Optional)                          |
| <i>mcast-nhops</i>          | (Optional)                          |
| <i>attached</i>             | (Optional)                          |
| <code>TABLE_path</code>     | (Optional)                          |
| <i>ubest</i>                | (Optional)                          |
| <i>mbest</i>                | (Optional)                          |
| <i>ipnexthop</i>            | (Optional)                          |
| <i>ifname</i>               | (Optional)                          |
| <i>pref</i>                 | (Optional)                          |
| <i>metric</i>               | (Optional)                          |
| <i>uptime</i>               | (Optional)                          |
| <i>clientname</i>           | (Optional)                          |
| <i>type</i>                 | (Optional)                          |
| <i>tag</i>                  | (Optional)                          |

|                    |            |
|--------------------|------------|
| <i>stale</i>       | (Optional) |
| <i>unres</i>       | (Optional) |
| <i>hidden</i>      | (Optional) |
| <i>stale-label</i> | (Optional) |

**Command Mode**

- /exec

## show routing hidden-nh

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] hidden-nh [ __readonly__ <uribtibtype_contextname> [ <utibtibtype_topologyname> ]
{ TABLE_hidden_nh <hidden_nh_uhn_prefix> <hidden_nh_uhn_mask_len> <pib> <rnh> <rnh_mask_len>
} ]
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information             |
| routing                         | Display routing information                 |
| vrf                             | (Optional) Display per-VRF information      |
| <i>vrf-name</i>                 | (Optional) VRF name                         |
| <i>vrf-known-name</i>           | (Optional) Known VRF name                   |
| vrf-all                         | (Optional) Display information for all VRFs |
| ip                              | (Optional) Display IP information           |
| ipv4                            | (Optional) Display IP information           |
| unicast                         | (Optional) Display unicast information      |
| topology                        | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| <i>topology-name</i>            | (Optional) topology name                    |
| hidden-nh                       | Display hidden next-hop information         |
| <i>__readonly__</i>             | (Optional)                                  |
| <i>uribtibtype_contextname</i>  | (Optional)                                  |
| <i>utibtibtype_topologyname</i> | (Optional)                                  |
| TABLE_hidden_nh                 | (Optional)                                  |
| <i>hidden_nh_uhn_prefix</i>     | (Optional)                                  |
| <i>hidden_nh_uhn_mask_len</i>   | (Optional)                                  |
| <i>pib</i>                      | (Optional)                                  |
| <i>rnh</i>                      | (Optional)                                  |
| <i>rnh_mask_len</i>             | (Optional)                                  |

### Command Mode

- /exec

## show routing ipv6

```
show routing ipv6 [ unicast ] [ topology <topology-name> ] [ l3vm-info ] [ rpf ] [ <ipv6-addr> | { <ipv6-prefix>
[ { longer-prefixes | shorter-prefixes } ] } ] [ { <ipv6-protocol> [ all ] } | { bind-label <bind-lbl> | next-hop
<next-hop> } | { interface <interface> } | { updated { [ since <stime> ] [ until <utime> ] } } ] + [ summary |
{ [ detail ] [ deleted ] } ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf
<vrf-name-out> TABLE_addrf <addrf> [ TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> [ <attached>
] TABLE_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <nexthop-vrf-name> ] [ <ifname> ] [ <bindlbl> ]
<uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <stalelbl> ] [ <hidden> ] ] [
TABLE_summary <routes> <paths> [ <multicast_paths> ] [ TABLE_unicast [ <clientnameuni> ] [ <best-paths>
] [ <backup-paths> ] ] [ TABLE_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [
TABLE_route_count [ <mask_len> ] [ <count> ] ] ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                                 |
| routing               | Display routing information                                     |
| ipv6                  | Display IPv6 information  |
| vrf                   | (Optional) Display per-VRF information                          |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                       |
| vrf-all               | (Optional) Display information for all VRFs                     |
| unicast               | (Optional) Display unicast information                          |
| topology              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                       |
| <i>topology-name</i>  | (Optional) topology name  |
| l3vm-info             | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                       |
| rpf                   | (Optional) Display RPF information for multicast source         |
| longer-prefixes       | (Optional) Display matching routes with mask-lengths >= prefix  |
| shorter-prefixes      | (Optional) Display matching routes with mask-lengths <= prefix  |
| <i>ipv6-protocol</i>  | (Optional) Display routes for protocol (or route type)          |
| all                   | (Optional) Display routes for protocol for backup next-hops too |
| bind-label            | (Optional) Display routes with this bind-label only             |
| <i>bind-lbl</i>       | (Optional) Binding label  |
| next-hop              | (Optional) Display routes with this next-hop only               |
| interface             | (Optional) Display routes with this output interface only       |

|                         |   |
|-------------------------|---|
| <i>interface</i>        | (Optional) Interface Name                                   |
| updated                 | (Optional) Display routes filtered by last updated time     |
| since                   | (Optional) Display those routes updated since this time     |
| <i>stime</i>            | (Optional) Since this date/time [[CC]YY-][MM-DD-]HH:MM[:SS] |
| until                   | (Optional) Display those routes updated until this time     |
| <i>utime</i>            | (Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS] |
| summary                 | (Optional) Display route counts                             |
| deleted                 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                   |
| detail                  | (Optional) Display routes in full detail                    |
| <u>__readonly__</u>     | (Optional)  |
| TABLE_vrf               | (Optional)  |
| <i>vrf-name-out</i>     | (Optional)  |
| TABLE_addrf             | (Optional)  |
| <i>addrf</i>            | (Optional)  |
| TABLE_prefix            | (Optional)  |
| <i>ucast-nhops</i>      | (Optional)  |
| <i>mcast-nhops</i>      | (Optional)  |
| <i>attached</i>         | (Optional)  |
| TABLE_path              | (Optional)  |
| <i>ubest</i>            | (Optional)  |
| <i>mbest</i>            | (Optional)  |
| <i>nexthop-vrf-name</i> | (Optional)  |
| <i>ifname</i>           | (Optional)  |
| <i>bindlbl</i>          | (Optional)  |
| <i>pref</i>             | (Optional)  |
| <i>tag</i>              | (Optional)  |
| <i>metric</i>           | (Optional)  |
| <i>uptime</i>           | (Optional)  |
| <i>clientname</i>       | (Optional)  |

|                        |            |
|------------------------|------------|
| <i>type</i>            | (Optional) |
| <i>stale</i>           | (Optional) |
| <i>stalelbl</i>        | (Optional) |
| <i>hidden</i>          | (Optional) |
| TABLE_summary          | (Optional) |
| <i>routes</i>          | (Optional) |
| <i>paths</i>           | (Optional) |
| <i>multicast_paths</i> | (Optional) |
| TABLE_unicast          | (Optional) |
| <i>clientnameuni</i>   | (Optional) |
| <i>best-paths</i>      | (Optional) |
| <i>backup-paths</i>    | (Optional) |
| TABLE_multicast        | (Optional) |
| <i>clientnamemulti</i> | (Optional) |
| <i>best-paths</i>      | (Optional) |
| <i>backup-paths</i>    | (Optional) |
| TABLE_route_count      | (Optional) |
| <i>mask_len</i>        | (Optional) |
| <i>count</i>           | (Optional) |

### Command Mode

- /exec

## show routing ipv6 clients

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ]
clients [ <client> | <ipv6-protocol> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__
{ TABLE_client <client_name> <pib_index> <pib_state> <pib_id> <multicast_or_unicast_pib>
<mru_cache_hits> <mru_cache_misses> [ <mts_sap> ] [ <mts_sap_str> ] [ <bad_l3vm_table_refcount> ]
<pib_stale_time> [ { TABLE_nib_node <u6ribtibtype_contextname> <routes> <rnhs> [ {
TABLE_notiffee_mask [ <u6pib_name> ] [ <index> ] } ] [ <u6tib_state> ] [ <pending_timer> ] [
<u6rib_state_invalid> ] [ <u6nib_notifier_all> ] [ { TABLE_notify_rcd <notify_rcd_name>
<notify_rcd_handle> [ <notifier_pib_u6pib_index> } ] ] [ { TABLE_notiffee_nib <notiffee_pib_u6pib_name>
<u6nib_notify_handle> } ] ] [ { TABLE_ready_client_event_queue <queue_name><queue_count> [ {
TABLE_client_event <event> <use_buf> <sched> <resend> <buf> [ <state> } ] } ] [ {
TABLE_buffer_rqst_client_event_queue <queue_name><queue_count> [ { TABLE_client_event <event>
<use_buf> <sched> <resend> <buf> [ <state> } ] } ] <update_ack_queue_count> [ { TABLE_update_ack
<update_ack> <update_ack_data> <update_ack_type> <update_ack_xid> } ] [ {
TABLE_route_buffer_used_queue <queue_name> <queue_count> [ { TABLE_clt_buf
<clt_buf><clt_buf_count><clt_buf_xid> } ] } ] [ { TABLE_rnh_buffer_used_queue <queue_name>
<queue_count> [ { TABLE_clt_buf <clt_buf><clt_buf_count><clt_buf_xid> } ] } ] [ { TABLE_msgs_rcvd
<u6rib_mtype_str><u6pib_rcvd> } ] [ { TABLE_msgs_sent <u6rib_mtype_str><u6pib_sent> } ] } ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                    |
| routing               | Display routing information                        |
| vrf                   | (Optional) Display per-VRF information             |
| <i>vrf-name</i>       | (Optional) VRF name                                |
| <i>vrf-known-name</i> | (Optional) Known VRF name                          |
| vrf-all               | (Optional) Display information for all VRFs        |
| ipv6                  | Display IPv6 information                           |
| unicast               | (Optional) Display unicast information             |
| topology              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED          |
| <i>topology-name</i>  | (Optional) topology name                           |
| clients               | Display u6rib client information                   |
| <i>client</i>         | (Optional) Display single u6rib client information |
| <i>ipv6-protocol</i>  | (Optional) Display single u6rib client information |
| __readonly__          | (Optional)   |
| TABLE_client          | (Optional)   |
| <i>client_name</i>    | (Optional)   |

|                                 |            |
|---------------------------------|------------|
| <i>pib_index</i>                | (Optional) |
| <i>pib_state</i>                | (Optional) |
| <i>pib_id</i>                   | (Optional) |
| <i>multicast_or_unicast_pib</i> | (Optional) |
| <i>mru_cache_hits</i>           | (Optional) |
| <i>mru_cache_misses</i>         | (Optional) |
| <i>mts_sap</i>                  | (Optional) |
| <i>mts_sap_str</i>              | (Optional) |
| <i>bad_l3vm_table_refcount</i>  | (Optional) |
| <i>pib_stale_time</i>           | (Optional) |
| TABLE_nib_node                  | (Optional) |
| <i>u6ribtibtype_contextname</i> | (Optional) |
| <i>routes</i>                   | (Optional) |
| <i>rnh</i>                      | (Optional) |
| TABLE_notiffee_mask             | (Optional) |
| <i>u6pib_name</i>               | (Optional) |
| <i>index</i>                    | (Optional) |
| <i>u6tib_state</i>              | (Optional) |
| <i>pending_timer</i>            | (Optional) |
| <i>u6rib_state_invalid</i>      | (Optional) |
| <i>u6nib_notifier_all</i>       | (Optional) |
| TABLE_notify_rcd                | (Optional) |
| <i>notify_rcd_name</i>          | (Optional) |
| <i>notify_rcd_handle</i>        | (Optional) |
| <i>notifier_pib_u6pib_index</i> | (Optional) |
| TABLE_notiffee_nib              | (Optional) |
| <i>notiffee_pib_u6pib_name</i>  | (Optional) |
| <i>u6nib_notify_handle</i>      | (Optional) |
| TABLE_ready_client_event_queue  | (Optional) |



|                                      |            |
|--------------------------------------|------------|
| <i>queue_name</i>                    | (Optional) |
| <i>queue_count</i>                   | (Optional) |
| TABLE_client_event                   | (Optional) |
| <i>event</i>                         | (Optional) |
| <i>use_buf</i>                       | (Optional) |
| <i>sched</i>                         | (Optional) |
| <i>resend</i>                        | (Optional) |
| <i>buf</i>                           | (Optional) |
| <i>state</i>                         | (Optional) |
| TABLE_buffer_rqst_client_event_queue | (Optional) |
| <i>queue_name</i>                    | (Optional) |
| <i>queue_count</i>                   | (Optional) |
| TABLE_client_event                   | (Optional) |
| <i>event</i>                         | (Optional) |
| <i>use_buf</i>                       | (Optional) |
| <i>sched</i>                         | (Optional) |
| <i>resend</i>                        | (Optional) |
| <i>buf</i>                           | (Optional) |
| <i>state</i>                         | (Optional) |
| <i>update_ack_queue_count</i>        | (Optional) |
| TABLE_update_ack                     | (Optional) |
| <i>update_ack</i>                    | (Optional) |
| <i>update_ack_data</i>               | (Optional) |
| <i>update_ack_type</i>               | (Optional) |
| <i>update_ack_xid</i>                | (Optional) |
| TABLE_route_buffer_used_queue        | (Optional) |
| TABLE_clt_buf                        | (Optional) |
| TABLE_rnh_buffer_used_queue          | (Optional) |
| TABLE_clt_buf                        | (Optional) |

|                 |            |
|-----------------|------------|
| TABLE_msgs_rcvd | (Optional) |
| TABLE_msgs_sent | (Optional) |

**Command Mode**

- /exec

## show routing ipv6 hash

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] hash [ mpls <ipv6-prefix> [ eos ] ] <source> <dest> [ ip-proto <ip-proto> ] [ <src-port> <dest-port> ] [ in-interface <in-interface> ] [ module <module-id> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf <vrf-name-out> [ <hash-type> ] [ <mcast> ] [ <hashpath> ] TABLE_prefix <ipprefix> <uicast-nhops> <mcast-nhops> <attached> TABLE_path [ <ubest> ] [ <mbest> ] [ <ipnexthop> ] [ <ifname> ] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale> ] [ <hidden> ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information  |
| routing               | Display routing information  |
| vrf                   | (Optional) Display per-VRF information   |
| <i>vrf-name</i>       | (Optional) VRF name  |
| <i>vrf-known-name</i> | (Optional) Known VRF name  |
| vrf-all               | (Optional) Display information for all VRFs                                      |
| ipv6                  | Display IPv6 information   |
| unicast               | (Optional) Display unicast information   |
| topology              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED  |
| <i>topology-name</i>  | (Optional) topology name   |
| hash                  | Display load-balancing hash information  |
| mpls                  | (Optional) MPLS path load-balancing hash information                             |
| eos                   | (Optional) Set End-of-Stack to 1   |
| ip-proto              | (Optional) IP Protocol information for the packet                                |
| <i>ip-proto</i>       | (Optional) IP Protocol information for the packet                                |
| <i>src-port</i>       | (Optional) Source-port   |
| <i>dest-port</i>      | (Optional) Destination-port  |
| in-interface          | (Optional) Incoming Interface for Packet.Option valid on Tomahawk platform only. |
| <i>in-interface</i>   | (Optional) Interface Name  |
| module                | (Optional) Module  |
| <i>module-id</i>      | (Optional) Module  |
| __readonly__          | (Optional)   |

|                     |            |
|---------------------|------------|
| TABLE_vrf           | (Optional) |
| <i>vrf-name-out</i> | (Optional) |
| <i>hash-type</i>    | (Optional) |
| <i>mcast</i>        | (Optional) |
| <i>hashpath</i>     | (Optional) |
| TABLE_prefix        | (Optional) |
| <i>ipprefix</i>     | (Optional) |
| <i>ucast-nhops</i>  | (Optional) |
| <i>mcast-nhops</i>  | (Optional) |
| <i>attached</i>     | (Optional) |
| TABLE_path          | (Optional) |
| <i>ubest</i>        | (Optional) |
| <i>mbest</i>        | (Optional) |
| <i>ifname</i>       | (Optional) |
| <i>pref</i>         | (Optional) |
| <i>tag</i>          | (Optional) |
| <i>metric</i>       | (Optional) |
| <i>uptime</i>       | (Optional) |
| <i>clientname</i>   | (Optional) |
| <i>type</i>         | (Optional) |
| <i>stale</i>        | (Optional) |
| <i>hidden</i>       | (Optional) |

**Command Mode**

- /exec

## show routing ipv6 hidden-nh

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] hidden-nh [ __readonly__ <uribtibtype_contextname> { TABLE_hidden_nh <nh> <nh-iod> <hidden_nh_uhn_prefix> <hidden_nh_uhn_mask_len> <pib> <rnh> <rnh_mask_len> } ]
```

### Syntax Description

|                                |   |
|--------------------------------|---|
| show                           | Show running system information             |
| routing                        | Display routing information                 |
| vrf                            | (Optional) Display per-VRF information      |
| <i>vrf-name</i>                | (Optional) VRF name                         |
| <i>vrf-known-name</i>          | (Optional) Known VRF name                   |
| vrf-all                        | (Optional) Display information for all VRFs |
| ipv6                           | Display IPv6 information                    |
| unicast                        | (Optional) Display unicast information      |
| topology                       | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| <i>topology-name</i>           | (Optional) topology name                    |
| hidden-nh                      | Display hidden next-hop information         |
| <i>__readonly__</i>            | (Optional)                                  |
| <i>uribtibtype_contextname</i> | (Optional)                                  |
| TABLE_hidden_nh                | (Optional)                                  |
| <i>nh</i>                      | (Optional)                                  |
| <i>nh-iod</i>                  | (Optional)                                  |
| <i>hidden_nh_uhn_prefix</i>    | (Optional)                                  |
| <i>hidden_nh_uhn_mask_len</i>  | (Optional)                                  |
| <i>pib</i>                     | (Optional)                                  |
| <i>rnh</i>                     | (Optional)                                  |
| <i>rnh_mask_len</i>            | (Optional)                                  |

### Command Mode

- /exec

## show routing ipv6 memory estimate

```
show routing ipv6 [ unicast ] memory estimate [ routes <route-count> next-hops <nh-count> ] [ labels ] [
__readonly__ <curr-max-MB> <curr-max-routes> <curr-max-nh> <inuse-MB> <inuse-routes> <inuse-nh>
<conf-max-MB> <conf-max-routes> <conf-max-nh> [ <est-MB> <est-routes> <est-nh> ] ]
```

### Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information                                    |
| routing                | Display routing information  |
| ipv6                   | Display IPv6 information   |
| unicast                | (Optional) Display unicast information                             |
| memory                 | Display u6rib memory information                                   |
| estimate               | Display u6rib memory estimate                                      |
| routes                 | (Optional) Display u6rib memory estimate for # routes              |
| <i>route-count</i>     | (Optional) Number of routes  |
| next-hops              | (Optional) Display u6rib memory estimate for # next-hops per route |
| <i>nh-count</i>        | (Optional) Number of next-hops per route                           |
| labels                 | (Optional) When the routes are associated with next hop labels     |
| <i>__readonly__</i>    | (Optional)   |
| <i>curr-max-MB</i>     | (Optional)   |
| <i>curr-max-routes</i> | (Optional)   |
| <i>curr-max-nh</i>     | (Optional)   |
| <i>inuse-MB</i>        | (Optional)   |
| <i>inuse-routes</i>    | (Optional)   |
| <i>inuse-nh</i>        | (Optional)   |
| <i>conf-max-MB</i>     | (Optional)   |
| <i>conf-max-routes</i> | (Optional)   |
| <i>conf-max-nh</i>     | (Optional)   |
| <i>est-MB</i>          | (Optional)   |
| <i>est-routes</i>      | (Optional)   |
| <i>est-nh</i>          | (Optional)   |

**Command Mode**

- /exec

## show routing ipv6 memory statistics

```
show routing ipv6 [ unicast ] memory statistics [ __readonly__ { TABLE_shrd_mem <rbuf-alloc>
<rbuf-high-water> <rbuf-max> <rbuf-numalloc> <slbs-alloc> <slbs-high-water> <slbs-max> <slbs-numalloc>
} { TABLE_u6rib_slabs <slab-name> <alloc-count> <max-allocs> <slab-size> } { TABLE_u6rib_blks
<slab-blk-name> <block-count> <max-blocks> <slab-count> } { TABLE_u6rib_routes_rnhs <ctx-name>
<user-nodes> <total-nodes> <elem-size> } ]
```

### Syntax Description

|                                |  |
|--------------------------------|--|
| show                           | Show running system information                |
| routing                        | Display routing information                    |
| ipv6                           | Display IPv6 information                       |
| unicast                        | (Optional) Display unicast routing information |
| memory                         | Display u6rib memory information               |
| statistics                     | Display u6rib memory statistics                |
| <i>__readonly__</i>            | (Optional)                                     |
| <i>TABLE_shrd_mem</i>          | (Optional)                                     |
| <i>TABLE_u6rib_slabs</i>       | (Optional)                                     |
| <i>TABLE_u6rib_blks</i>        | (Optional)                                     |
| <i>TABLE_u6rib_routes_rnhs</i> | (Optional)                                     |
| <i>ctx-name</i>                | (Optional)                                     |
| <i>slab-name</i>               | (Optional)                                     |
| <i>slab-blk-name</i>           | (Optional)                                     |
| <i>rbuf-alloc</i>              | (Optional)                                     |
| <i>rbuf-high-water</i>         | (Optional)                                     |
| <i>rbuf-max</i>                | (Optional)                                     |
| <i>rbuf-numalloc</i>           | (Optional)                                     |
| <i>slbs-alloc</i>              | (Optional)                                     |
| <i>slbs-high-water</i>         | (Optional)                                     |
| <i>slbs-max</i>                | (Optional)                                     |
| <i>slbs-numalloc</i>           | (Optional)                                     |
| <i>user-nodes</i>              | (Optional)                                     |



|                    |            |
|--------------------|------------|
| <i>total-nodes</i> | (Optional) |
| <i>elem-size</i>   | (Optional) |
| <i>alloc-count</i> | (Optional) |
| <i>max-allocs</i>  | (Optional) |
| <i>slab-size</i>   | (Optional) |
| <i>block-count</i> | (Optional) |
| <i>max-blocks</i>  | (Optional) |
| <i>slab-count</i>  | (Optional) |

**Command Mode**

- /exec

## show routing ipv6 multicast

```
show routing ipv6 multicast [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ topology <topology-name> ]
[ [ bitfield ] | rp | { [ <group> ] summary [ software-forwarded ] } | { summary [ count | software-forwarded
] } | { <source> <group> } | { <group> [ <source> ] } } [ summary [ software-forwarded ] | bitfield ] ] [
__readonly__ { TABLE_vrf <vrf-name> [ TABLE_addr <mcast-addr> <pending> <bidir> <uptime> [
TABLE_mpib <mpib-name> <stale-route> ] <if-name><rpf-nbr> <internal>
<oif-count><fabric-oif><fabric-loser> [ TABLE_oif <oif-name> <oif-uptime> [ TABLE_oif_mpib
<oif-mpib-name> <stale-oif> ] <rpf> ] [ <oif-list-bitfield> ] ] [ <total-route-count> <star-g-count>
<source-count> <star-g-prefix-count> <group-count> <avg-sources-per-group><rem> [
<reason-for-route-stats-pending> ] ] [ TABLE_group <group-addr> <group-mask-len> <source-count-per-grp>
[ TABLE_source <route-or-source> [ <name> ] <packets> <bytes> <aps> <pps> <bit-rate-in-bps> <oifs> [
<software-pkts> ] ] ] } ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                        |
| ipv6                  | Display IPv6 information                               |
| vrf                   | (Optional) Display per-VRF information                 |
| <i>vrf-name</i>       | (Optional) VRF name                                    |
| <i>vrf-known-name</i> | (Optional) Known VRF name                              |
| all                   | (Optional) Display information for all VRFs            |
| routing               | Display routing information                            |
| multicast             | Display multicast information                          |
| topology              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED              |
| <i>topology-name</i>  | (Optional) topology name                               |
| summary               | (Optional) Display route counts                        |
| software-forwarded    | (Optional) Display software switched route counts only |
| rp                    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED              |
| count                 | (Optional) Display route counts only                   |
| bitfield              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED              |
| __readonly__          | (Optional)   |
| TABLE_vrf             | (Optional)   |
| <i>vrf-name</i>       | (Optional)   |
| TABLE_addr            | (Optional)   |

|                                       |            |
|---------------------------------------|------------|
| <i>mcast-addr</i> s                   | (Optional) |
| <i>bidir</i>                          | (Optional) |
| <i>pending</i>                        | (Optional) |
| <i>uptime</i>                         | (Optional) |
| <i>internal</i>                       | (Optional) |
| TABLE_mpib                            | (Optional) |
| <i>mpib-name</i>                      | (Optional) |
| <i>stale-route</i>                    | (Optional) |
| TABLE_oif                             | (Optional) |
| <i>oif-name</i>                       | (Optional) |
| <i>oif-uptime</i>                     | (Optional) |
| <i>rpf</i>                            | (Optional) |
| <i>oif-list-bitfield</i>              | (Optional) |
| TABLE_oif_mpib                        | (Optional) |
| <i>oif-mpib-name</i>                  | (Optional) |
| <i>stale-oif</i>                      | (Optional) |
| <i>total-route-count</i>              | (Optional) |
| <i>star-g-count</i>                   | (Optional) |
| <i>source-count</i>                   | (Optional) |
| <i>star-g-prefix-count</i>            | (Optional) |
| <i>group-count</i>                    | (Optional) |
| <i>reason-for-route-stats-pending</i> | (Optional) |
| TABLE_group                           | (Optional) |
| <i>group-addr</i>                     | (Optional) |
| <i>group-mask-len</i>                 | (Optional) |
| <i>source-count-per-grp</i>           | (Optional) |
| TABLE_source                          | (Optional) |
| <i>route-or-source</i>                | (Optional) |
| <i>name</i>                           | (Optional) |

|                        |            |
|------------------------|------------|
| <i>packets</i>         | (Optional) |
| <i>bytes</i>           | (Optional) |
| <i>aps</i>             | (Optional) |
| <i>pps</i>             | (Optional) |
| <i>bit-rate-in-bps</i> | (Optional) |
| <i>oifs</i>            | (Optional) |
| <i>software-pkts</i>   | (Optional) |

**Command Mode**

- /exec

## show routing ipv6 multicast clients

```
show routing ipv6 multicast clients [ <client-name> ] [ __readonly__ { TABLE_client <client-name> <cid>
<pid> <mts-sap> <shared-mem> <is-stale-timer-running> <wants-notification> [ TABLE_protocol
<SSM-owner> <Bidir-owner> <static-owner> <shared-only-owner> <locally-joined-owner> <external-owner>
<Fabric-owner> ] { TABLE_join_notifications <sent> <fail> <ack-rcvd> } { TABLE_prune_notifications
<sent> <fail> <ack-rcvd> } { TABLE_rpf_notifications <sent> <fail> <ack-rcvd> } {
TABLE_delete_notifications <sent> <fail> <ack-rcvd> } { TABLE_clear_mrout_notifications <sent> <fail>
} { TABLE_add_route_req <rcvd> <ack-sent> <ack-fail> } { TABLE_del_route_req <rcvd> <ack-sent>
<ack-fail> } { TABLE_upd_route_req <rcvd> <ack-sent> <ack-fail> } { TABLE_mts_route_req <rcvd>
<ack-sent> <ack-fail> } } ]
```

### Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information              |
| routing                       | Display routing information                  |
| ipv6                          | Display IPv6 information                     |
| multicast                     | Display multicast information                |
| clients                       | Display multicast routing client information |
| <i>client-name</i>            | (Optional) Multicast routing client name     |
| <i>__readonly__</i>           | (Optional)                                   |
| TABLE_client                  | (Optional)                                   |
| <i>client-name</i>            | (Optional)                                   |
| <i>cid</i>                    | (Optional)                                   |
| <i>pid</i>                    | (Optional)                                   |
| <i>mts-sap</i>                | (Optional)                                   |
| <i>shared-mem</i>             | (Optional)                                   |
| <i>is-stale-timer-running</i> | (Optional)                                   |
| <i>wants-notification</i>     | (Optional)                                   |
| TABLE_protocol                | (Optional)                                   |
| <i>SSM-owner</i>              | (Optional)                                   |
| <i>Bidir-owner</i>            | (Optional)                                   |
| <i>static-owner</i>           | (Optional)                                   |
| <i>shared-only-owner</i>      | (Optional)                                   |

|                                  |            |
|----------------------------------|------------|
| <i>locally-joined-owner</i>      | (Optional) |
| <i>external-owner</i>            | (Optional) |
| <i>Fabric-owner</i>              | (Optional) |
| TABLE_join_notifications         | (Optional) |
| <i>sent</i>                      | (Optional) |
| <i>fail</i>                      | (Optional) |
| <i>ack-rcvd</i>                  | (Optional) |
| TABLE_prune_notifications        | (Optional) |
| <i>sent</i>                      | (Optional) |
| <i>fail</i>                      | (Optional) |
| <i>ack-rcvd</i>                  | (Optional) |
| TABLE_rpf_notifications          | (Optional) |
| <i>sent</i>                      | (Optional) |
| <i>fail</i>                      | (Optional) |
| <i>ack-rcvd</i>                  | (Optional) |
| TABLE_delete_notifications       | (Optional) |
| <i>sent</i>                      | (Optional) |
| <i>fail</i>                      | (Optional) |
| <i>ack-rcvd</i>                  | (Optional) |
| TABLE_clear_mroute_notifications | (Optional) |
| <i>sent</i>                      | (Optional) |
| <i>fail</i>                      | (Optional) |
| TABLE_add_route_req              | (Optional) |
| <i>rcvd</i>                      | (Optional) |
| <i>ack-sent</i>                  | (Optional) |
| <i>ack-fail</i>                  | (Optional) |
| TABLE_del_route_req              | (Optional) |
| <i>rcvd</i>                      | (Optional) |
| <i>ack-sent</i>                  | (Optional) |

|                     |            |
|---------------------|------------|
| <i>ack-fail</i>     | (Optional) |
| TABLE_upd_route_req | (Optional) |
| <i>rcvd</i>         | (Optional) |
| <i>ack-sent</i>     | (Optional) |
| <i>ack-fail</i>     | (Optional) |
| TABLE_mts_route_req | (Optional) |
| <i>rcvd</i>         | (Optional) |
| <i>ack-sent</i>     | (Optional) |
| <i>ack-fail</i>     | (Optional) |

**Command Mode**

- /exec

## show routing ipv6 multicast memory estimate

```
show routing ipv6 multicast memory estimate [ groups <group-count> sources-per-group <source-count>
oifs-per-entry <oif-count> ] [ __readonly__ { { TABLE_cur_max <current-max-mb> <groups>
<sources-per-group> <oifs-per-entry> } { TABLE_in_use <in-use_kb> <groups> <sources-per-group>
<oifs-per-entry> } { TABLE_conf_max <conf-max-mb> <groups> <sources-per-group> <oifs-per-entry> }
[ TABLE_est_max <estimate-mb> <groups> <sources-per-group> <oifs-per-entry> ] } ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information   |
| routing                  | Display routing information   |
| ipv6                     | Display IPv6 information  |
| multicast                | Display multicast information   |
| memory                   | Display m6rib memory information  |
| estimate                 | Display m6rib memory estimate   |
| groups                   | (Optional) Display m6rib memory estimate for # groups                       |
| <i>group-count</i>       | (Optional) Number of groups   |
| sources-per-group        | (Optional) Display mrib memory estimate for # sources per group             |
| <i>source-count</i>      | (Optional) Number of sources per route                                      |
| oifs-per-entry           | (Optional) Display mrib memory estimate for # oifs per (S,G) or (*,G) entry |
| <i>oif-count</i>         | (Optional) Number of oifs per entry   |
| <i>__readonly__</i>      | (Optional)  |
| TABLE_cur_max            | (Optional)  |
| <i>current-max-mb</i>    | (Optional)  |
| <i>groups</i>            | (Optional)  |
| <i>sources-per-group</i> | (Optional)  |
| <i>oifs-per-entry</i>    | (Optional)  |
| TABLE_in_use             | (Optional)  |
| <i>in-use_kb</i>         | (Optional)  |
| <i>groups</i>            | (Optional)  |
| <i>sources-per-group</i> | (Optional)  |



|                          |            |
|--------------------------|------------|
| <i>oifs-per-entry</i>    | (Optional) |
| TABLE_conf_max           | (Optional) |
| <i>conf-max-mb</i>       | (Optional) |
| <i>groups</i>            | (Optional) |
| <i>sources-per-group</i> | (Optional) |
| <i>oifs-per-entry</i>    | (Optional) |
| TABLE_est_max            | (Optional) |
| <i>estimate-mb</i>       | (Optional) |
| <i>groups</i>            | (Optional) |
| <i>sources-per-group</i> | (Optional) |
| <i>oifs-per-entry</i>    | (Optional) |

**Command Mode**

- /exec

## show routing ipv6 nhlfe

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ]
nhlfe [ stats ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ { TABLE_vrf
<vrf-name-out> [ <nhlfe-owner> <nhlfe-refcount> { TABLE_nhlabel <nhlfe-index> <nh-label> }
<nhlfe-is-vpn> <nhlfe-owner-index> ] <total-entries> } ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information             |
| routing                  | Display routing information                 |
| vrf                      | (Optional) Display per-VRF information      |
| <i>vrf-name</i>          | (Optional) VRF name                         |
| <i>vrf-known-name</i>    | (Optional) Known VRF name                   |
| vrf-all                  | (Optional) Display information for all VRFs |
| ipv6                     | Display IPv6 information                    |
| unicast                  | (Optional) Display unicast information      |
| topology                 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| <i>topology-name</i>     | (Optional) topology name                    |
| nhlfe                    | Display NHLFE db                            |
| stats                    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| <i>__readonly__</i>      | (Optional)                                  |
| TABLE_vrf                | (Optional)                                  |
| <i>vrf-name-out</i>      | (Optional)                                  |
| <i>nhlfe-owner</i>       | (Optional)                                  |
| <i>nhlfe-refcount</i>    | (Optional)                                  |
| TABLE_nhlabel            | (Optional)                                  |
| <i>nhlfe-index</i>       | (Optional)                                  |
| <i>nh-label</i>          | (Optional)                                  |
| <i>nhlfe-is-vpn</i>      | (Optional)                                  |
| <i>nhlfe-owner-index</i> | (Optional)                                  |
| <i>total-entries</i>     | (Optional)                                  |

### Command Mode

- /exec

## show routing ipv6 recursive-next-hop

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] recursive-next-hop [ <ipv6-addr> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [ TABLE_prefix <ipprefix> <uptime> TABLE_clients <client-req> [ <client-pend> ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| routing               | Display routing information                 |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| vrf-all               | (Optional) Display information for all VRFs |
| ipv6                  | Display IPv6 information                    |
| unicast               | (Optional) Display unicast information      |
| topology              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| <i>topology-name</i>  | (Optional) topology name                    |
| recursive-next-hop    | Display recursive next-hop table            |
| __readonly__          | (Optional)                                  |
| TABLE_vrf             | (Optional)                                  |
| <i>vrf-name-out</i>   | (Optional)                                  |
| TABLE_addrf           | (Optional)                                  |
| <i>addrf</i>          | (Optional)                                  |
| TABLE_prefix          | (Optional)                                  |
| <i>uptime</i>         | (Optional)                                  |
| TABLE_clients         | (Optional)                                  |
| <i>client-req</i>     | (Optional)                                  |
| <i>client-pend</i>    | (Optional)                                  |

### Command Mode

- /exec

# show routing memory estimate

```
show routing [ ip | ipv4 ] [ unicast ] memory estimate [ routes <route-count> [ next-hops <nh-count>
<nh-unique> ] [ next-hops-v6 <nh6-count> <nh6-unique> ] [ next-hops-srte <srte-count> <srte-unique> ] ] [
labels ] [ __readonly__ <current_max_mb> <current_max_routes> <urib_max_nh> <used_mb>
<route_stats_alloc_count> <nhs> <configured_max_mb> <configured_max_routes> <urib_routes_max_nh>
[ <estimate_mb> <estimate_routes> <estimate_nhs> <estimate_with_mvpn_mb> <estimate_with_ospf_mb>
<estimate_with_eigrp_mb> ] ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information   |
| routing             | Display routing information   |
| ip                  | (Optional) Display IP information   |
| ipv4                | (Optional) Display IP information   |
| unicast             | (Optional) Display unicast information  |
| memory              | Display urib memory information   |
| estimate            | Display urib memory estimate  |
| routes              | (Optional) Display urib memory estimate for # routes                              |
| <i>route-count</i>  | (Optional) Number of routes   |
| next-hops           | (Optional) Display urib memory estimate for # next-hops per route                 |
| <i>nh-count</i>     | (Optional) Number of next-hops per route  |
| <i>nh-unique</i>    | (Optional) Number of unique next-hops (between 1 and route-count*nh-count)        |
| next-hops-v6        | (Optional) Display urib memory estimate for # V6 next-hops per route              |
| <i>nh6-count</i>    | (Optional) Number of V6 next-hops per route                                       |
| <i>nh6-unique</i>   | (Optional) Number of unique V6 next-hops (between 1 and route-count*nh6-count)    |
| next-hops-srte      | (Optional) Display urib memory estimate for # srte next-hops per route            |
| <i>srte-count</i>   | (Optional) Number of srte next-hops per route                                     |
| <i>srte-unique</i>  | (Optional) Number of unique srte next-hops (between 1 and route-count*srte-count) |
| labels              | (Optional) When the routes are associated with next hop labels                    |
| <i>__readonly__</i> | (Optional)  |

|                                |            |
|--------------------------------|------------|
| <i>current_max_mb</i>          | (Optional) |
| <i>current_max_routes</i>      | (Optional) |
| <i>urib_max_nh</i>             | (Optional) |
| <i>used_mb</i>                 | (Optional) |
| <i>route_stats_alloc_count</i> | (Optional) |
| <i>nhs</i>                     | (Optional) |
| <i>configured_max_mb</i>       | (Optional) |
| <i>configured_max_routes</i>   | (Optional) |
| <i>urib_routes_max_nh</i>      | (Optional) |
| <i>estimate_mb</i>             | (Optional) |
| <i>estimate_routes</i>         | (Optional) |
| <i>estimate_nhs</i>            | (Optional) |
| <i>estimate_with_mvpn_mb</i>   | (Optional) |
| <i>estimate_with_ospf_mb</i>   | (Optional) |
| <i>estimate_with_eigrp_mb</i>  | (Optional) |

**Command Mode**

- /exec

## show routing memory statistics

```
show routing [ ip | ipv4 ] [ unicast ] memory statistics [ debug ] [ __readonly__ { TABLE_shrd_mem
<ubuf-alloc> <ubuf-high-water> <ubuf-max> <ubuf-numalloc> <rbuf-alloc> <rbuf-high-water> <rbuf-max>
<rbuf-numalloc> <slbs-alloc> <slbs-high-water> <slbs-max> <slbs-numalloc> } { TABLE_urib_slabs
<slab-name> <slab-alloc-count> <slab-max-allocs> <slab-size> } { TABLE_urib_blks <block-name>
<block-count> <max-blocks> <blks-count> } { TABLE_urib_routes_rnhs <ctx-name> <user-node>
<total-node> <elem-size> } ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information           |
| routing                | Display routing information               |
| ip                     | (Optional) Display IP information         |
| ipv4                   | (Optional) Display IP information         |
| unicast                | (Optional) Display unicast information    |
| memory                 | Display urib memory information           |
| statistics             | Display urib memory statistics            |
| debug                  | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| __readonly__           | (Optional)                                |
| TABLE_shrd_mem         | (Optional)                                |
| <i>ubuf-alloc</i>      | (Optional)                                |
| <i>ubuf-high-water</i> | (Optional)                                |
| <i>ubuf-max</i>        | (Optional)                                |
| <i>ubuf-numalloc</i>   | (Optional)                                |
| <i>rbuf-alloc</i>      | (Optional)                                |
| <i>rbuf-high-water</i> | (Optional)                                |
| <i>rbuf-max</i>        | (Optional)                                |
| <i>rbuf-numalloc</i>   | (Optional)                                |
| <i>slbs-alloc</i>      | (Optional)                                |
| <i>slbs-high-water</i> | (Optional)                                |
| <i>slbs-max</i>        | (Optional)                                |
| <i>slbs-numalloc</i>   | (Optional)                                |

|                         |            |
|-------------------------|------------|
| TABLE_urib_slabs        | (Optional) |
| <i>slab-name</i>        | (Optional) |
| <i>slab-alloc-count</i> | (Optional) |
| <i>slab-max-allocs</i>  | (Optional) |
| <i>slab-size</i>        | (Optional) |
| TABLE_urib_blks         | (Optional) |
| <i>block-name</i>       | (Optional) |
| <i>block-count</i>      | (Optional) |
| <i>max-blocks</i>       | (Optional) |
| <i>blks-count</i>       | (Optional) |
| TABLE_urib_routes_rnhs  | (Optional) |
| <i>ctx-name</i>         | (Optional) |
| <i>user-node</i>        | (Optional) |
| <i>total-node</i>       | (Optional) |
| <i>elem-size</i>        | (Optional) |

**Command Mode**

- /exec



## show routing multicast clients

```
show routing [ ip | ipv4 ] multicast clients [ <client-name> ] [ detail ] [ __readonly__ { TABLE_mpib
<mpib_name> <mpib_index> <mpib_pid> <mpib_mts_sap> <mpib_shm> <stale_timer> <join_notify>
<prune_notify> <rpf_notify> <delete_notify> <repopulate_notify> <zero-oif-notify> <non-zero-oif-notify>
<attach_notify> <non-attach_notify> <static_notify> <non-static_notify> <internal_notify>
<non-internal_notify><external_notify><non-external_notify> <otv-decap_notify>
<no-otv-decap_notify><vxlan-decap_notify> <no-vxlan-decap_notify>
<mdt-encap_notify><no-mdt-encap_notify> <mdt-decap_notify> <no-mdt-decap_notify><vpc-svi_notify>
<notification_pending> [ <ssm_owner> <bidir_owner> <static_owner> <shared_only_owner>
<locally_joined_owner> <external_owner> <mdt_owner> <fabric_owner> <sticky_iif_owner>
<data_created_owner> <internal_owner> <prune_owner> <attached_owner> <otv_decap_owner>
<vxlan_decap_owner> <secondary_owner> <encap_index_owner> <force_punt_owner> <multi_route_owner>
<register_stop_owner> ] <notify_sent> <notify_fail> <notify_ack_rcvd> <add_route_req_rcvd>
<add_route_ack_sent> <add_route_ack_fail> <delete_route_req_rcvd> <delete_route_ack_sent>
<delete_route_ack_fail> <update_route_req_rcvd> <update_route_ack_sent> <update_route_ack_fail>
<update_mdt_info_req_rcvd> <update_mdt_info_ack_sent> <update_mdt_info_ack_fail>
<mts_update_route_req_rcvd> <mts_update_route_ack_sent> <mts_update_route_ack_fail>
<force_update_rcvd> <notify_member_count> <pending_mpib> <uptime> } ]
```

### Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information              |
| routing             | Display routing information                  |
| ip                  | (Optional) Display IP information            |
| ipv4                | (Optional) Display IP information            |
| multicast           | Display multicast information                |
| clients             | Display multicast routing client information |
| <i>client-name</i>  | (Optional) Multicast routing client name     |
| detail              | (Optional) Display detailed route attributes |
| __readonly__        | (Optional)                                   |
| TABLE_mpib          | (Optional)                                   |
| <i>mpib_name</i>    | (Optional)                                   |
| <i>mpib_index</i>   | (Optional)                                   |
| <i>mpib_pid</i>     | (Optional)                                   |
| <i>mpib_mts_sap</i> | (Optional)                                   |
| <i>mpib_shm</i>     | (Optional)                                   |
| <i>stale_timer</i>  | (Optional)                                   |

|                              |            |
|------------------------------|------------|
| <i>join_notify</i>           | (Optional) |
| <i>prune_notify</i>          | (Optional) |
| <i>rpf_notify</i>            | (Optional) |
| <i>delete_notify</i>         | (Optional) |
| <i>repopulate_notify</i>     | (Optional) |
| <i>zero-oif-notify</i>       | (Optional) |
| <i>non-zero-oif-notify</i>   | (Optional) |
| <i>attach-notify</i>         | (Optional) |
| <i>non-attach-notify</i>     | (Optional) |
| <i>static-notify</i>         | (Optional) |
| <i>non-static-notify</i>     | (Optional) |
| <i>internal-notify</i>       | (Optional) |
| <i>otv-decap-notify</i>      | (Optional) |
| <i>no-vxlan-decap-notify</i> | (Optional) |
| <i>mdt-decap-notify</i>      | (Optional) |
| <i>notification_pending</i>  | (Optional) |
| <i>ssm_owner</i>             | (Optional) |
| <i>bidir_owner</i>           | (Optional) |
| <i>static_owner</i>          | (Optional) |
| <i>shared_only_owner</i>     | (Optional) |
| <i>locally_joined_owner</i>  | (Optional) |
| <i>external_owner</i>        | (Optional) |
| <i>mdt_owner</i>             | (Optional) |
| <i>fabric_owner</i>          | (Optional) |
| <i>sticky_iif_owner</i>      | (Optional) |
| <i>data_created_owner</i>    | (Optional) |
| <i>internal_owner</i>        | (Optional) |
| <i>prune_owner</i>           | (Optional) |
| <i>attached_owner</i>        | (Optional) |

|                                  |            |
|----------------------------------|------------|
| <i>otv_decap_owner</i>           | (Optional) |
| <i>vlan_decap_owner</i>          | (Optional) |
| <i>secondary_owner</i>           | (Optional) |
| <i>encap_index_owner</i>         | (Optional) |
| <i>force_punt_owner</i>          | (Optional) |
| <i>multi_route_owner</i>         | (Optional) |
| <i>register_stop_owner</i>       | (Optional) |
| <i>notify_sent</i>               | (Optional) |
| <i>notify_fail</i>               | (Optional) |
| <i>notify_ack_rcvd</i>           | (Optional) |
| <i>add_route_req_rcvd</i>        | (Optional) |
| <i>add_route_ack_sent</i>        | (Optional) |
| <i>add_route_ack_fail</i>        | (Optional) |
| <i>delete_route_req_rcvd</i>     | (Optional) |
| <i>delete_route_ack_sent</i>     | (Optional) |
| <i>delete_route_ack_fail</i>     | (Optional) |
| <i>update_route_req_rcvd</i>     | (Optional) |
| <i>update_route_ack_sent</i>     | (Optional) |
| <i>update_route_ack_fail</i>     | (Optional) |
| <i>update_mdt_info_req_rcvd</i>  | (Optional) |
| <i>update_mdt_info_ack_sent</i>  | (Optional) |
| <i>update_mdt_info_ack_fail</i>  | (Optional) |
| <i>mts_update_route_req_rcvd</i> | (Optional) |
| <i>mts_update_route_ack_sent</i> | (Optional) |
| <i>mts_update_route_ack_fail</i> | (Optional) |
| <i>force_update_rcvd</i>         | (Optional) |
| <i>notify_member_count</i>       | (Optional) |
| <i>pending_mpib</i>              | (Optional) |
| <i>uptime</i>                    | (Optional) |

**Command Mode**

- /exec

# show routing multicast lisp encap

```
{ show routing [ ip | ipv4 ] multicast lisp encap } [ __readonly__ { TABLE_mrib_list_encap <encap-index>
<source-rloc> <dest-rloc> <ref-count> } ]
```

## Syntax Description

|                       |                                   |
|-----------------------|-----------------------------------|
| show                  | Show running system information   |
| routing               | Display routing information       |
| ip                    | (Optional) Display IP information |
| ipv4                  | (Optional) Display IP information |
| multicast             | Display multicast information     |
| lisp                  | LISP related information          |
| encap                 | All the encap indices             |
| __readonly__          | (Optional)                        |
| TABLE_mrib_list_encap | (Optional)                        |
| <i>encap-index</i>    | (Optional)                        |
| <i>source-rloc</i>    | (Optional)                        |
| <i>dest-rloc</i>      | (Optional)                        |
| <i>ref-count</i>      | (Optional)                        |

## Command Mode

- /exec

## show routing multicast mdt encapsulation

```
show routing [ ip | ipv4 ] multicast mdt encapsulation [ detail ] [ vrf { <vrf-name> | <vrf-known-name> | all
} ] [ __readonly__ [ TABLE_vrf <vrf-name> [ TABLE_mdt <index> <group> <source> <count>
<delete-pending> ] ] ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information             |
| routing               | Display routing information                 |
| ip                    | (Optional) Display IP information           |
| ipv4                  | (Optional) Display IP information           |
| multicast             | Display multicast information               |
| mdt                   | Multicast Distribution Tree                 |
| encapsulation         | Encapsulation Information                   |
| detail                | (Optional) Display detailed information     |
| vrf                   | (Optional) Display per-VRF information      |
| <i>vrf-name</i>       | (Optional) VRF name                         |
| <i>vrf-known-name</i> | (Optional) Known VRF name                   |
| all                   | (Optional) Display information for all VRFs |
| <i>__readonly__</i>   | (Optional)                                  |
| TABLE_vrf             | (Optional)                                  |
| <i>vrf-name</i>       | (Optional)                                  |
| TABLE_mdt             | (Optional)                                  |
| <i>index</i>          | (Optional)                                  |
| <i>group</i>          | (Optional)                                  |
| <i>source</i>         | (Optional)                                  |
| <i>count</i>          | (Optional)                                  |
| <i>delete-pending</i> | (Optional)                                  |

### Command Mode

- /exec

## show routing multicast memory estimate

```
show routing [ ip | ipv4 ] multicast memory estimate [ groups <group-count> sources-per-group <source-count>
oifs-per-entry <oif-count> [ mdt-encap-entries <encap-entry-count> ] [ __readonly__ [ TABLE_currentmax
[ <max-mb> ] [ <max-groups> ] [ <sources-per-group> ] [ <oifs-per-entry> ] ] [ TABLE_inuse [ <used-kb>
] [ <alloc-count> ] [ <sources-per-group> ] [ <oifs-per-entry> ] [ <mdt-encap-entry> ] ] [
TABLE_configuredmax [ <max-mb> ] [ <max-groups> ] [ <sources-per-group> ] [ <oifs-per-entry> ] ] [
TABLE_estimate [ <estimate-mb> ] [ <groups> ] [ <sources-per-group> ] [ <oifs-per-entry> ] [
<mdt-encap-entry> ] ] ] ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information   |
| routing                  | Display routing information   |
| ip                       | (Optional) Display IP information   |
| ipv4                     | (Optional) Display IP information   |
| multicast                | Display multicast information   |
| memory                   | Display mrib memory information   |
| estimate                 | Display mrib memory estimate  |
| groups                   | (Optional) Display mrib memory estimate for # groups                        |
| <i>group-count</i>       | (Optional) Number of groups   |
| sources-per-group        | (Optional) Display mrib memory estimate for # sources per group             |
| <i>source-count</i>      | (Optional) Number of sources per route                                      |
| oifs-per-entry           | (Optional) Display mrib memory estimate for # oifs per (S,G) or (*,G) entry |
| <i>oif-count</i>         | (Optional) Number of oifs per entry   |
| mdt-encap-entries        | (Optional) Display mrib memory estimate for # mdt encap entries             |
| <i>encap-entry-count</i> | (Optional) Number of mdt encap entries                                      |
| __readonly__             | (Optional)  |
| TABLE_currentmax         | (Optional)  |
| <i>max-mb</i>            | (Optional)  |
| <i>max-groups</i>        | (Optional)  |
| <i>sources-per-group</i> | (Optional)  |
| <i>oifs-per-entry</i>    | (Optional)  |

|                          |            |
|--------------------------|------------|
| TABLE_inuse              | (Optional) |
| <i>used-kb</i>           | (Optional) |
| <i>alloc-count</i>       | (Optional) |
| <i>sources-per-group</i> | (Optional) |
| <i>oifs-per-entry</i>    | (Optional) |
| <i>mdt-encap-entry</i>   | (Optional) |
| TABLE_configuredmax      | (Optional) |
| <i>max-mb</i>            | (Optional) |
| <i>max-groups</i>        | (Optional) |
| <i>sources-per-group</i> | (Optional) |
| <i>oifs-per-entry</i>    | (Optional) |
| TABLE_estimate           | (Optional) |
| <i>estimate-mb</i>       | (Optional) |
| <i>groups</i>            | (Optional) |
| <i>sources-per-group</i> | (Optional) |
| <i>oifs-per-entry</i>    | (Optional) |
| <i>mdt-encap-entry</i>   | (Optional) |

**Command Mode**

- /exec



## show routing multicast sr

```
show routing [ ip | ipv4 ] multicast sr [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ [
TABLE_vrf <vrf-name> <mode> <mac-rewrite> [ TABLE_route <interface> <in-group-range>
<to-group-range> <group-mask> <in-source-range> <to-source-range> <source-mask> ] ] ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information             |
| routing                | Display routing information                 |
| ip                     | (Optional) Display IP information           |
| ipv4                   | (Optional) Display IP information           |
| multicast              | Display multicast information               |
| sr                     | Service Reflect Rules                       |
| vrf                    | (Optional) Display per-VRF information      |
| <i>vrf-name</i>        | (Optional) VRF name                         |
| <i>vrf-known-name</i>  | (Optional) Known VRF name                   |
| all                    | (Optional) Display information for all VRFs |
| <i>__readonly__</i>    | (Optional)                                  |
| TABLE_vrf              | (Optional)                                  |
| <i>vrf-name</i>        | (Optional)                                  |
| <i>mode</i>            | (Optional)                                  |
| <i>mac-rewrite</i>     | (Optional)                                  |
| TABLE_route            | (Optional)                                  |
| <i>interface</i>       | (Optional)                                  |
| <i>in-group-range</i>  | (Optional)                                  |
| <i>to-group-range</i>  | (Optional)                                  |
| <i>group-mask</i>      | (Optional)                                  |
| <i>in-source-range</i> | (Optional)                                  |
| <i>to-source-range</i> | (Optional)                                  |
| <i>source-mask</i>     | (Optional)                                  |

### Command Mode

- /exec

# show routing nhlfe

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] nhlfe [ stats ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ __readonly__
TABLE_vrf <vrf-name-out> [ <nhlfe-owner> <nhlfe-refcount> { TABLE_nhlabel <nlabel-index> <nh-label>
} <nhlfe-is-vpn> <nhlfe-owner-index> ] <total-entries> ]
```

## Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information             |
| routing                  | Display routing information                 |
| vrf                      | (Optional) Display per-VRF information      |
| <i>vrf-name</i>          | (Optional) VRF name                         |
| <i>vrf-known-name</i>    | (Optional) Known VRF name                   |
| vrf-all                  | (Optional) Display information for all VRFs |
| ip                       | (Optional) Display IP information           |
| ipv4                     | (Optional) Display IP information           |
| unicast                  | (Optional) Display unicast information      |
| topology                 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| <i>topology-name</i>     | (Optional) topology name                    |
| nhlfe                    | Display URIB NHLFE db                       |
| stats                    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED   |
| __readonly__             | (Optional)                                  |
| TABLE_vrf                | (Optional)                                  |
| <i>vrf-name-out</i>      | (Optional)                                  |
| <i>nhlfe-owner</i>       | (Optional)                                  |
| <i>nhlfe-refcount</i>    | (Optional)                                  |
| TABLE_nhlabel            | (Optional)                                  |
| <i>nlabel-index</i>      | (Optional)                                  |
| <i>nh-label</i>          | (Optional)                                  |
| <i>nhlfe-is-vpn</i>      | (Optional)                                  |
| <i>nhlfe-owner-index</i> | (Optional)                                  |

|                      |            |
|----------------------|------------|
| <i>total-entries</i> | (Optional) |
|----------------------|------------|

**Command Mode**

- /exec

## show routing recursive-next-hop

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] recursive-next-hop [ <ip-addr> ] [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ]
[ __readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> [ TABLE_prefix <ipprefix> <uptime>
TABLE_clients <clientname> ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                      |
| routing               | Display routing information                          |
| vrf                   | (Optional) Display per-VRF information               |
| <i>vrf-name</i>       | (Optional) VRF name                                  |
| <i>vrf-known-name</i> | (Optional) Known VRF name                            |
| vrf-all               | (Optional) Display information for all VRFs          |
| ip                    | (Optional) Display IP information                    |
| ipv4                  | (Optional) Display IP information                    |
| unicast               | (Optional) Display unicast information               |
| topology              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED            |
| recursive-next-hop    | Display recursive next-hop table                     |
| <i>topology-name</i>  | (Optional) topology name                             |
| <i>ip-addr</i>        | (Optional) Display single recursive virtual next-hop |
| __readonly__          | (Optional)   |
| TABLE_vrf             | (Optional)   |
| <i>vrf-name-out</i>   | (Optional)   |
| TABLE_addrf           | (Optional)   |
| <i>addrf</i>          | (Optional) Address type                              |
| TABLE_prefix          | (Optional)   |
| <i>ipprefix</i>       | (Optional)   |
| <i>uptime</i>         | (Optional)   |
| TABLE_clients         | (Optional)   |
| <i>clientname</i>     | (Optional)   |

**Command Mode**

- /exec

## show routing vxlan-hash peer-ip

```
show routing vxlan-hash peer-ip <peer-ip> <inner-src-mac> <inner-dst-mac> [ <inner-src-ip> <inner-dst-ip>
] [ <inner-src-ip6> <inner-dst-ip6> ] [ ip-proto <ip-proto> ] [ <inner-src-port> <inner-dst-port> ] [ module
<module-id> ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                   |
| routing               | Display routing information                       |
| vxlan-hash            | Display load-balancing information for vxlan      |
| peer-ip               | Peer IP address                                   |
| <i>peer-ip</i>        | Peer IP   |
| <i>inner-src-mac</i>  | Inner Source MAC Address                          |
| <i>inner-dst-mac</i>  | Inner Destination MAC Address                     |
| <i>inner-src-ip</i>   | (Optional) Inner Source IP                        |
| <i>inner-dst-ip</i>   | (Optional) Inner Destination IP                   |
| ip-proto              | (Optional) IP Protocol information for the packet |
| <i>ip-proto</i>       | (Optional) IP Protocol information for the packet |
| <i>inner-src-port</i> | (Optional) Inner Source-port                      |
| <i>inner-dst-port</i> | (Optional) Inner Destination-port                 |
| module                | (Optional) Module                                 |
| <i>module-id</i>      | (Optional) Module                                 |

### Command Mode

- /exec

## show routing vxlan-hash peer-ipv6

```
show routing vxlan-hash peer-ipv6 <peer-ipv6> <inner-src-mac> <inner-dst-mac> [ <inner-src-ip>
<inner-dst-ip> ] [ <inner-src-ipv6> <inner-dst-ipv6> ] [ ip-proto <ip-proto> ] [ <inner-src-port> <inner-dst-port>
] [ module <module-id> ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                   |
| routing               | Display routing information                       |
| vxlan-hash            | Display load-balancing information for vxlan      |
| peer-ipv6             | Peer IPv6 address                                 |
| <i>inner-src-mac</i>  | Inner Source MAC Address                          |
| <i>inner-dst-mac</i>  | Inner Destination MAC Address                     |
| <i>inner-src-ip</i>   | (Optional) Inner Source IP                        |
| <i>inner-dst-ip</i>   | (Optional) Inner Destination IP                   |
| ip-proto              | (Optional) IP Protocol information for the packet |
| <i>ip-proto</i>       | (Optional) IP Protocol information for the packet |
| <i>inner-src-port</i> | (Optional) Inner Source-port                      |
| <i>inner-dst-port</i> | (Optional) Inner Destination-port                 |
| module                | (Optional) Module                                 |
| <i>module-id</i>      | (Optional) Module                                 |

### Command Mode

- /exec



# show running-config

show running-config

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operating configuration |

## Command Mode

- /exec

# show running-config aaa

show running-config aaa [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| aaa            | Display aaa configuration                    |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config acllog

show running-config acllog [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| acllog         | show running config for acllog               |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config aclmgr

show running-config aclmgr [ all | inactive-if-config ]

## Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information                      |
| running-config     | Current operating configuration                      |
| aclmgr             | show running config for aclmgr                       |
| all                | (Optional) show running config with defaults         |
| inactive-if-config | (Optional) show running config for inactive-policies |

## Command Mode

- /exec

# show running-config adjmgr

show running-config adjmgr [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operating configuration                      |
| adjmgr         | Display adjmgr information                           |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config all

show running-config all

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information               |
| running-config | Current operating configuration               |
| all            | Current operating configuration with defaults |

## Command Mode

- /exec

# show running-config arp

show running-config arp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operating configuration                      |
| arp            | Display arp information                              |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config assoc

show running-config assoc [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| assoc          | Original ID to Translated ID Association     |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec



# show running-config backup

show running-config { backup | flexlink } [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information           |
| running-config | Current operating configuration           |
| backup         | Show running config for Switchport Backup |
| flexlink       | Show running config for Switchport Backup |
| all            | (Optional) Show config with defaults      |

## Command Mode

- /exec

# show running-config bfd

show running-config bfd [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| bfd            | show running config for bfd                  |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config bgp

show running-config bgp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| bgp            | Display bgp information                              |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config bloggerd

show running-config bloggerd [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| bloggerd       | Display bloggerd configuration               |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config callhome

show running-config callhome [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| callhome       | Display callhome configuration               |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config catena

show running-config catena

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show running-cfg                |
| running-config | show running system information |
| catena         | catena instances                |

## Command Mode

- /exec

# show running-config cdp

show running-config cdp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| cdp            | Display cdp configuration                    |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config cert-enroll

show running-config cert-enroll [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| cert-enroll    | Display certificates configuration           |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec



# show running-config cfs

show running-config cfs [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operation configuration              |
| cfs            | Display cfs configurations                   |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config clock\_manager

show running-config clock\_manager [ all ]

## Syntax Description

|                |  |
|----------------|--|
| running-config | Current operating configuration              |
| clock_manager  | show running config for clock manager        |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config config-profile

show running-config config-profile [ <all\_conf\_profile\_name> ]

## Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show running-cfg                         |
| running-config               | show running configuration               |
| config-profile               | Display port-profile configuration       |
| <i>all_conf_profile_name</i> | (Optional) Enter the name of the profile |

## Command Mode

- /exec

# show running-config config-template

show running-config config-template

## Syntax Description

|                 |                                       |
|-----------------|---------------------------------------|
| show            | Show running system information       |
| running-config  | Current operationg configuration      |
| config-template | Display config-template configuration |

## Command Mode

- /exec

# show running-config controller

show running-config controller

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operating configuration |
| controller     | controller                      |

## Command Mode

- /exec

# show running-config copp

show running-config copp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| copp           | Control-Plane Policing                       |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config dhcp

show running-config dhcp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operation configuration              |
| dhcp           | Display dhcp snoop configurations            |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config diagnostic

show running-config diagnostic [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| running-config | Current operating configuration                 |
| diagnostic     | Display diagnostic information                  |
| all            | (Optional) Display running config with defaults |

## Command Mode

- /exec



# show running-config diff

show running-config diff

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                               |
| running-config | Current operating configuration                               |
| diff           | Show the difference between running and startup configuration |

## Command Mode

- /exec

# show running-config dot1x

show running-config dot1x [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| dot1x          | Display dot1x configuration                  |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config ecp

show running-config ecp [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| running-config | Current operationg configuration                |
| ecp            | ECP (Edge Control Protocol)                     |
| all            | (Optional) Display running config with defaults |

## Command Mode

- /exec

# show running-config eem

show running-config eem

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Show the system running configuration        |
| eem            | Show the event manager running configuration |

## Command Mode

- /exec

# show running-config eigrp

show running-config eigrp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| eigrp          | Display eigrp information                            |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config eltm

show running-config eltm

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operation configuration |
| eltm           | Display eltm configurations     |

## Command Mode

- /exec

# show running-config evb

show running-config evb [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| running-config | Current operationg configuration                |
| evb            | EVB (Edge Virtual Bridge)                       |
| all            | (Optional) Display running config with defaults |

## Command Mode

- /exec

# show running-config exclude

show running-config exclude <feature-list> +

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                     |
| running-config      | Current operating configuration                     |
| exclude             | Exclude running configuration of specified features |
| <i>feature-list</i> | Exclude features                                    |

## Command Mode

- /exec



# show running-config expand-port-profile

show running-config expand-port-profile

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| running-config      | Current operating configuration |
| expand-port-profile | Expand port profile             |

## Command Mode

- /exec

# show running-config fabric forwarding

show running-config fabric forwarding [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                         |
| running-config | Current operationg configuration                        |
| fabric         | Fabric  |
| forwarding     | Fabric Forwarding Protocol: Host Mobility Manager (HMM) |
| all            | (Optional) Display running config with defaults clis    |

## Command Mode

- /exec

# show running-config fabric multicast

show running-config fabric multicast [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operating configuration                      |
| fabric         | Fabric   |
| multicast      | Multicast information                                |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config fabricpath

show running-config fabricpath [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| fabricpath     | fabricpath information                       |
| all            | (Optional) Show running config with defaults |

## Command Mode

- /exec

# show running-config fabricpath domain default

show running-config fabricpath domain default [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operating configuration                      |
| fabricpath     | fabricpath information                               |
| domain         | Enter fabricpath IS-IS domain configuration mode     |
| default        | default fabricpath domain                            |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config fabricpath switch-id

show running-config fabricpath switch-id [ all ]

## Syntax Description

|                |  |
|----------------|--|
| running-config | Current operating configuration              |
| fabricpath     | fabricpath information                       |
| switch-id      | fabricpath switch-id configuration           |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config fabricpath topology

show running-config fabricpath topology [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| fabricpath     | fabricpath Module Information                        |
| topology       | Fabricpath topology Information                      |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config fcoe\_mgr

show running-config fcoe\_mgr [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| fcoe_mgr       | Display fcoe_mgr configuration               |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec



# show running-config hardware-telemetry

show running-config hardware-telemetry [ all ]

## Syntax Description

|                    |  |
|--------------------|--|
| running-config     | Current operating configuration              |
| hardware-telemetry | show running config for hardware-telemetry   |
| all                | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config hsrp

show running-config hsrp [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show system information                             |
| running-config | System running configuration                        |
| hsrp           | HSRP running configuration                          |
| all            | (Optional) Show HSRP running configuration defaults |

## Command Mode

- /exec

# show running-config icam

show running-config icam

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show running-cfg                |
| running-config | show running system information |
| icam           | icam services                   |

## Command Mode

- /exec

# show running-config igmp

show running-config igmp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| igmp           | Display igmp information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config imp

show running-config imp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show system information                            |
| running-config | System running configuration                       |
| imp            | IMP running configuration                          |
| all            | (Optional) Show IMP running configuration defaults |

## Command Mode

- /exec

# show running-config interface

show running-config interface <if0> [ membership ] [ expand-port-profile ]

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                 |
| running-config      | Current operating configuration                 |
| interface           | Interface configuration                         |
| <i>if0</i>          | interface type and number in module/slot format |
| membership          | (Optional) Show membership information          |
| expand-port-profile | (Optional) Expand port profile                  |

## Command Mode

- /exec

# show running-config interface

show running-config interface [ <if0> ] [ all ] [ expand-port-profile ]

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                            |
| running-config      | Current operating configuration                            |
| interface           | Interface configuration                                    |
| <i>if0</i>          | (Optional) interface type and number in module/slot format |
| all                 | (Optional) show running config with defaults               |
| expand-port-profile | (Optional) Expand port profile                             |

## Command Mode

- /exec

# show running-config ip

show running-config ip [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operating configuration                      |
| ip             | Display ip information                               |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec



# show running-config ipqos

show running-config ipqos [ all | inactive-if-config ]

## Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information                      |
| running-config     | Current operating configuration                      |
| all                | (Optional) show running config with defaults         |
| inactive-if-config | (Optional) show running config for inactive-policies |

## Command Mode

- /exec

# show running-config isis

show running-config isis [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| isis           | Display isis information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config l3vm

show running-config l3vm [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| running-config | Current operationg configuration                |
| l3vm           | Display l3vm information                        |
| all            | (Optional) Display running config with defaults |

## Command Mode

- /exec

# show running-config ldap

show running-config ldap [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| ldap           | Display ldap configuration                   |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config license

show running-config license [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show   |
| running-config | show running system information              |
| license        | Display licensing configuration              |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config lisp

show running-config lisp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| lisp           | Display lisp information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config lldp

show running-config lldp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| lldp           | Display lldp configuration                   |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config macsec

show running-config macsec

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operating configuration |
| macsec         | Show CTS information            |

## Command Mode

- /exec



# show running-config mmode

show running-config mmode [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                |
| running-config | Show running configuration                     |
| mmode          | Display maintenance mode running configuration |
| all            | (Optional) Show running config with defaults   |

## Command Mode

- /exec

# show running-config monitor

show running-config monitor [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| monitor        | Configure Ethernet SPAN sessions             |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config mpls static

show running-config mpls static [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| running-config | Current operating configuration                 |
| mpls           | Display MPLS status and configuration           |
| static         | Static Label Bindings                           |
| all            | (Optional) Display running-config with defaults |

## Command Mode

- /exec

# show running-config mpls traffic-eng

show running-config mpls traffic-eng [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| mpls           | show running config for mpls features        |
| traffic-eng    | show running-config for Traffic Engineering  |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config msdp

show running-config msdp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| msdp           | Display msdp information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config nat

show running-config nat [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| nat            | Display NAT configuration                    |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config nbm

show running-config nbm

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operating configuration |
| nbm            | Non Blocking Multicast          |

## Command Mode

- /exec

# show running-config ngoam

show running-config ngoam [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Show running system information              |
| ngoam          | ngoam configuration                          |
| all            | (Optional) Show running config with defaults |

## Command Mode

- /exec



# show running-config ntp

show running-config ntp [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show information                              |
| running-config | Show running system configuration             |
| ntp            | Show NTP information                          |
| all            | (Optional) Show all NTP running configuration |

## Command Mode

- /exec

# show running-config nv overlay

show running-config nv overlay [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show system information                            |
| running-config | System running configuration                       |
| nv             | NVE running configuration                          |
| overlay        | NVE running configuration                          |
| all            | (Optional) Show NVE running configuration defaults |

## Command Mode

- /exec

# show running-config nxsdk

show running-config nxsdk [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| running-config | Current operating configuration                 |
| nxsdk          | NXOS SDK  |
| all            | (Optional) Display running config with defaults |

## Command Mode

- /exec

# show running-config openflow

show running-config openflow [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| openflow       | Show running config for OpenFlow agent       |
| all            | (Optional) Show running config with defaults |

## Command Mode

- /exec

# show running-config ospf

show running-config ospf [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| ospf           | Display ospf information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config ospfv3

show running-config ospfv3 [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| ospfv3         | Display ospfv3 information                           |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config otv-isis

show running-config otv-isis [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| otv-isis       | Display otv-isis information                         |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config otv

show running-config otv [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| otv            | Display otv information                              |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec



# show running-config param-list

show running-config param-list [ <plistname> ]

## Syntax Description

|                  |   |
|------------------|---|
| show             | Show running-cfg                            |
| running-config   | show running configuration                  |
| param-list       | Display param-list configuration            |
| <i>plistname</i> | (Optional) Enter the name of the param list |

## Command Mode

- /exec

# show running-config pim

show running-config pim [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| pim            | Display pim information                              |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config pim6

show running-config pim6 [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| pim6           | Display pim6 information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config plb-services

show running-config plb-services

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show running-cfg                |
| running-config | show running system information |
| plb-services   | PLB services                    |

## Command Mode

- /exec

# show running-config poe

show running-config poe [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| poe            | Power over Ethernet                          |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config port-profile

show running-config port-profile [ <all\_profile\_name> ]

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running-cfg                         |
| running-config          | show running configuration               |
| port-profile            | Display port-profile configuration       |
| <i>all_profile_name</i> | (Optional) Enter the name of the profile |

## Command Mode

- /exec

# show running-config port-security

show running-config port-security [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| port-security  | Display port-security configuration          |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config ptp

show running-config ptp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| running-config | Current operating configuration              |
| ptp            | show running config for ptp                  |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec



# show running-config radius

show running-config radius [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| radius         | Display radius configuration                 |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config rip

show running-config rip [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| rip            | Display rip information                              |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config routing ip multicast

show running-config routing { ip | ipv4 } multicast [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| routing        | Display routing information                          |
| ip             | Display IP information                               |
| ipv4           | Display IP information                               |
| multicast      | Display multicast information                        |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config routing ipv6 multicast

show running-config routing ipv6 multicast [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| routing        | Display routing information                          |
| ipv6           | Display IPv6 information                             |
| multicast      | Display m6rib information                            |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config rpm

show running-config rpm [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| running-config | Current operating configuration                 |
| rpm            | Display Route Policy Manager (RPM) information  |
| all            | (Optional) Display running config with defaults |

## Command Mode

- /exec

# show running-config rsvp

show running-config rsvp

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operating configuration |
| rsvp           | Display RSVP status             |

## Command Mode

- /exec

# show running-config scheduler

show running-config scheduler [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| scheduler      | Show scheduler config or data                |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config section

show running-config section <section>

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information  |
| running-config | Current operating configuration  |
| section        | show only a particular section of running-config (in format needed for 'merge config' command) |
| <i>section</i> | the section to show, a regular expression, (use a dot for a space)                             |

## Command Mode

- /exec



# show running-config security

show running-config security [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| security       | Display security configuration               |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config segment-routing

show running-config segment-routing [ all ]

## Syntax Description

|                 |   |
|-----------------|---|
| show            | Show running system information               |
| running-config  | Show running configuration                    |
| segment-routing | Display segment-routing running configuration |
| all             | (Optional) Show running config with defaults  |

## Command Mode

- /exec

# show running-config services

show running-config services

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show running-cfg                |
| running-config | show running system information |
| services       | services                        |

## Command Mode

- /exec

# show running-config services

show running-config services

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show running-cfg                |
| running-config | show running system information |
| services       | services                        |

## Command Mode

- /exec

# show running-config sflow

show running-config sflow [ all ]

## Syntax Description

|                |  |
|----------------|--|
| running-config | Current operating configuration              |
| sflow          | show running config for sflow                |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config sla responder

show running-config sla responder

## Syntax Description

|                |                                      |
|----------------|--------------------------------------|
| show           | show running-cfg                     |
| running-config | show running system information      |
| sla            | Service Level Agreement (SLA)        |
| responder      | Show information about sla-responder |

## Command Mode

- /exec

# show running-config sla sender

show running-config sla sender

## Syntax Description

|                |                                   |
|----------------|-----------------------------------|
| show           | show running-cfg                  |
| running-config | show running system information   |
| sla            | Service Level Agreement (SLA)     |
| sender         | Show information about sla-sender |

## Command Mode

- /exec

# show running-config sla twamp-server

show running-config sla twamp-server

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                           |
| running-config | show running system information            |
| sla            | Service Level Agreement (SLA)              |
| twamp-server   | Show IPSLA IPPM TWAMP server configuration |

## Command Mode

- /exec



# show running-config smart-channel

show running-config smart-channel

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show running-cfg                |
| running-config | show running system information |
| smart-channel  | smart channel services          |

## Command Mode

- /exec

# show running-config snmp

show running-config snmp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| snmp           | Display snmp configuration                   |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config spanning-tree

show running-config spanning-tree [ <all> | interface <interface\_range> ]

## Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information                             |
| running-config         | Current operating configuration                             |
| spanning-tree          | Show spanning tree information                              |
| <i>all</i>             | (Optional)  |
| interface              | (Optional) Specify an interface as a target for the command |
| <i>interface_range</i> | (Optional)  |

## Command Mode

- /exec

# show running-config srte

show running-config srte

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operating configuration |
| srte           | SRTE                            |

## Command Mode

- /exec

# show running-config switch

show running-config { switch-profile | include-switch-profile }

## Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information               |
| running-config         | Current operating configuration               |
| switch-profile         | Show switch-profile information               |
| include-switch-profile | Show running and switch-profile configuration |

## Command Mode

- /exec

# show running-config tacacs

show running-config tacacs + [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running-cfg                             |
| running-config | show running system information              |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config telemetry

show running-config telemetry [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show running system configuration            |
| running-config | Current operating configuration              |
| telemetry      | Display telemetry configuration              |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config track

show running-config track [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Show the system running information                  |
| track          | Show track running configuration                     |
| all            | (Optional) Show track running configuration defaults |

## Command Mode

- /exec



# show running-config udd

show running-config udd [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| udd            | Show udd configuration                       |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config vdc-all

show running-config vdc-all [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                           |
| running-config | Current operating configuration                           |
| vdc-all        | Display config from all VDC                               |
| all            | (Optional) Display config from all VDC including defaults |

## Command Mode

- /exec

# show running-config vdc

show running-config vdc [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| vdc            | Show Virtual Device Contexts                 |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config virtual-service

show running-config virtual-service

## Syntax Description

|                 |   |
|-----------------|---|
| show            | Show running system information                 |
| running-config  | Current operating configuration                 |
| virtual-service | Show running config for virtualization services |

## Command Mode

- /exec

# show running-config vlan

show running-config vlan <vlan-id> [ expand-port-profile ]

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                 |
| running-config      | Current operating configuration                 |
| vlan                | Vlan commands                                   |
| <i>vlan-id</i>      | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |
| expand-port-profile | (Optional) Expand port profile                  |

## Command Mode

- /exec

# show running-config vlan

show running-config vlan <vlan-id> [ expand-port-profile ]

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                 |
| running-config      | Current operating configuration                 |
| vlan                | Vlan commands                                   |
| <i>vlan-id</i>      | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |
| expand-port-profile | (Optional) Expand port profile                  |

## Command Mode

- /exec

# show running-config vlan

show running-config vlan

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operating configuration |
| vlan           | Vlan commands                   |

## Command Mode

- /exec

# show running-config vmtracker

show running-config vmtracker [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| vmtracker      | show running config for vmtracker            |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec



# show running-config vpc

show running-config vpc [ all ]

## Syntax Description

|                |  |
|----------------|--|
| running-config | Current operating configuration              |
| vpc            | show running config for vPC                  |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config vrf

show running-config vrf <vrf-cfg-name> [ all ]

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                      |
| running-config      | Current operationg configuration                     |
| vrf                 | Display VRF information                              |
| <i>vrf-cfg-name</i> | Configurable VRF name                                |
| all                 | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config vrf default

show running-config vrf default [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| running-config | Current operationg configuration                     |
| vrf            | Display VRF information                              |
| default        | Known VRF name                                       |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show running-config vrrp

show running-config vrrp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| vrrp           | Display VRRP running configuration           |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config vrrpv3

show running-config vrrpv3 [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| running-config | Current operating configuration              |
| vrrpv3         | Show running config for VRRPv3               |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show running-config vshd

show running-config vshd

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| running-config | Current operating configuration |
| vshd           | Show running config for vshd    |

## Command Mode

- /exec

# show running-config vtp

show running-config vtp [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                             |
| running-config | Current operating configuration                             |
| vtp            | Show running configuration for VTP                          |
| all            | (Optional) Show running configuration for VTP with defaults |

## Command Mode

- /exec

# show running-config wwnm

show running-config wwnm

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information           |
| running-config | Current running configuration             |
| wwnm           | Display WWN Manager running configuration |

## Command Mode

- /exec





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# show san-port-channel compatibility-parameters

```
show san-port-channel compatibility-parameters [ __readonly__ [ { TABLE_compatibility_params <parameter>
<description> } ] ]
```

## Syntax Description

|                                   |  |
|-----------------------------------|--|
| show                              | Show running system information                |
| san-port-channel                  | Show san-port-channel information              |
| compatibility-parameters          | Show san-port-channel compatibility-parameters |
| <i>__readonly__</i>               | (Optional) Read Only                           |
| <i>TABLE_compatibility_params</i> | (Optional) Table with compatibility params     |
| <i>parameter</i>                  | (Optional) Compatibility parameter             |
| <i>description</i>                | (Optional) Parameter description               |

## Command Mode

- /exec

## show san-port-channel consistency

```
show san-port-channel consistency [ __readonly__ [ <msg> ] [ { [ <error_msg> ] [ <consistency_state> ] [
<module> ] [ { TABLE_inconsistent_database [ <database> ] [ { [ <total_port_channels> ] [ {
TABLE_san_port_channel_database [ <interface> ] [ <total_ports> ] [ <first_operational_port> ] [ {
TABLE_san_port_channel_member <port> <state> } ] [ <db_error_str> } ] } ] } ] } ] }
```

### Syntax Description

|                                 |  |
|---------------------------------|--|
| show                            | Show running system information                        |
| san-port-channel                | Show san-port-channel information                      |
| consistency                     | Show san-port-channel distributed database consistency |
| <i>__readonly__</i>             | (Optional) Read Only                                   |
| <i>msg</i>                      | (Optional) Message string                              |
| <i>error_msg</i>                | (Optional) Prints consistency errors, if any           |
| <i>consistency_state</i>        | (Optional) Consistency state                           |
| <i>module</i>                   | (Optional) Module no                                   |
| TABLE_inconsistent_database     | (Optional) Table with details of inconsistent dbs      |
| <i>database</i>                 | (Optional) Inconsistent database                       |
| TABLE_san_port_channel_database | (Optional) san-po Table                                |
| <i>total_port_channels</i>      | (Optional) Total port channels                         |
| <i>interface</i>                | (Optional) san-port-channel interface                  |
| <i>first_operational_port</i>   | (Optional) First oper port in san-po                   |
| <i>total_ports</i>              | (Optional) Total number of ports in the san-po         |
| TABLE_san_port_channel_member   | (Optional) san-po member Table                         |
| <i>port</i>                     | (Optional) san-po member port                          |
| <i>state</i>                    | (Optional) san-po member port state                    |
| <i>db_error_str</i>             | (Optional) prints cmd errors, if any                   |

### Command Mode

- /exec



## show san-port-channel consistency detail

```
show san-port-channel consistency detail [ __readonly__ [ <sup_total_port_channels> ] [ { [ <sup_db_error_str> ] [ { TABLE_sup_san_port_channel_database <sup_interface> [ <sup_total_ports> ] [ <sup_first_operational_port> ] [ { TABLE_sup_san_port_channel_member <sup_port> <sup_state> } ] } ] } ] [ <msg> ] [ { [ <error_msg> ] [ <db_index> ] [ <module> ] [ { [ <total_port_channels> ] [ { TABLE_san_port_channel_database [ <interface> ] [ <total_ports> ] [ <first_operational_port> ] [ { TABLE_san_port_channel_member <port> <state> } ] [ <db_error_str> ] } ] } ] } ] [ <consistency_state> ] ]
```

### Syntax Description

|                                     |  |
|-------------------------------------|--|
| show                                | Show running system information                            |
| san-port-channel                    | Show san-port-channel information                          |
| consistency                         | Show san-port-channel distributed database consistency     |
| detail                              | Show san-port-channel distributed databases of all modules |
| __readonly__                        | (Optional) Read Only                                       |
| sup_total_port_channels             | (Optional) Authoritative po db - Total POs                 |
| TABLE_sup_san_port_channel_database | (Optional) Table with details of auth po db                |
| sup_interface                       | (Optional) san-port-channel interface                      |
| sup_first_operational_port          | (Optional) First oper port in san-po                       |
| sup_total_ports                     | (Optional) Total number of ports in the san-po             |
| TABLE_sup_san_port_channel_member   | (Optional) san-po member Table                             |
| sup_port                            | (Optional) san-po member port                              |
| sup_state                           | (Optional) san-po member port state                        |
| sup_db_error_str                    | (Optional) prints cmd errors, if any                       |
| msg                                 | (Optional) Msg string                                      |
| error_msg                           | (Optional) Prints errors, if any                           |
| db_index                            | (Optional) Database index                                  |
| module                              | (Optional) Module no                                       |
| total_port_channels                 | (Optional) Authoritative po db - Total POs                 |
| TABLE_san_port_channel_database     | (Optional) Table with details of auth po db                |
| interface                           | (Optional) san-port-channel interface                      |
| first_operational_port              | (Optional) First oper port in san-po                       |

|                               |  |
|-------------------------------|--|
| <i>total_ports</i>            | (Optional) Total number of ports in the san-po |
| TABLE_san_port_channel_member | (Optional) san-po member Table                 |
| <i>port</i>                   | (Optional) san-po member port                  |
| <i>state</i>                  | (Optional) san-po member port state            |
| <i>db_error_str</i>           | (Optional) prints cmd errors, if any           |
| <i>consistency_state</i>      | (Optional) Consistency state                   |

**Command Mode**

- /exec

# show san-port-channel database

```
show san-port-channel database [ interface <ifid> | all ] [ __readonly__ [ <error_str> ] [ {
TABLE_san_port_channel_database <interface> <admin_chan_mode> <oper_chan_mode>
<last_membership_update> [ <last_membership_update_fail_reason> ] [ <pcm_interface_flag> ] [
<vlan_interfaces> ] [ <first_operational_port> ] [ <total_ports> ] [ <total_oper_ports> ] [ {
TABLE_san_port_channel_member <port> <state> } } ] [ <cmd_error_str> ] ]
```

## Syntax Description

|   |  |
|---|--|
| show                                      | Show running system information                |
| san-port-channel                          | Show san-port-channel information              |
| database                                  | Show san-port-channel database                 |
| interface                                 | (Optional) Specify a port-channel              |
| <i>ifid</i>                               | (Optional)                                     |
| all                                       | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED      |
| <i>__readonly__</i>                       | (Optional) Read Only                           |
| <i>error_str</i>                          | (Optional) Prints errors,if any                |
| TABLE_san_port_channel_database           | (Optional) san-port-channel database Table     |
| <i>interface</i>                          | (Optional) san-po Interface                    |
| <i>admin_chan_mode</i>                    | (Optional) san-po administrative channel mode  |
| <i>oper_chan_mode</i>                     | (Optional) san-po operational channel mode     |
| <i>last_membership_update</i>             | (Optional) Last membership update status       |
| <i>last_membership_update_fail_reason</i> | (Optional) Membership update status casue      |
| <i>pcm_interface_flag</i>                 | (Optional) san-po interface flag               |
| <i>vlan_interfaces</i>                    | (Optional) san-po vlan interfaces              |
| <i>first_operational_port</i>             | (Optional) First oper port in san-po           |
| <i>total_ports</i>                        | (Optional) Total number of ports in the san-po |
| <i>total_oper_ports</i>                   | (Optional) Total oper ports in the san-po      |
| TABLE_san_port_channel_member             | (Optional) san-po member Table                 |
| <i>port</i>                               | (Optional) san-po member port                  |
| <i>state</i>                              | (Optional) san-po member port state            |
| <i>cmd_error_str</i>                      | (Optional) prints cmd errors,if any            |

**Command Mode**

- /exec

# show san-port-channel summary

```
show san-port-channel summary [ __readonly__ [ { TABLE_san_port_channel_summary <interface>
<total_ports> <total_oper_ports> <first_operational_port> } ] [ <cmd_error_str> ] ]
```

## Syntax Description

|                                       |  |
|---------------------------------------|--|
| <i>show</i>                           | Show running system information                |
| <i>san-port-channel</i>               | Show san-port-channel information              |
| <i>summary</i>                        | Show san-port-channel summary                  |
| <i>__readonly__</i>                   | (Optional) Read Only                           |
| <i>TABLE_san_port_channel_summary</i> | (Optional) san-port-channel Summary Table      |
| <i>interface</i>                      | (Optional) san-po Interface                    |
| <i>total_ports</i>                    | (Optional) Total number of ports in the san-po |
| <i>total_oper_ports</i>               | (Optional) Total oper ports in the san-po      |
| <i>first_operational_port</i>         | (Optional) First oper port in san-po           |
| <i>cmd_error_str</i>                  | (Optional) Prints cmd error,if any             |

## Command Mode

- /exec

## show san-port-channel usage

```
show san-port-channel usage [ __readonly__ [ <total_channel_numbers_used> { <used_range> } + {
<unused_range> } + ] [ <error_str> ] ]
```

### Syntax Description

|                                   |   |
|-----------------------------------|---|
| show                              | Show running system information               |
| san-port-channel                  | Show san-port-channel information             |
| usage                             | Show san-port-channel usages                  |
| <i>__readonly__</i>               | (Optional) Read Only                          |
| <i>total_channel_numbers_used</i> | (Optional) Total used number of port-channels |
| <i>used_range</i>                 | (Optional) Used range                         |
| <i>unused_range</i>               | (Optional) Un-used range                      |
| <i>error_str</i>                  | (Optional) Prints error if any                |

### Command Mode

- /exec



**Command Mode**

- /exec



# show scheduler job

```
show scheduler job [ name <s0> ] [ __readonly__ [ { TABLE_schedulerjobs <jobname> [ <jobdata> ] } ] ]
```

## Syntax Description

|                     |                                    |
|---------------------|------------------------------------|
| show                | Show running system information    |
| scheduler           | Show scheduler config or data      |
| job                 | Display job information            |
| name                | (Optional) Specify the name of job |
| s0                  | (Optional) Specify the job name    |
| __readonly__        | (Optional)                         |
| TABLE_schedulerjobs | (Optional) schedulerjobs           |
| jobname             | (Optional) job name                |
| jobdata             | (Optional) job data                |

## Command Mode

- /exec

# show scheduler logfile

```
show scheduler logfile [ __readonly__ [ { TABLE_joblog <jobname> [ <jobstatus> ] [ <schedulename> ] [ <scheduleusername> ] [ <completiontime> ] [ <joboutput> ] } ] ]
```

## Syntax Description

|                         |                                  |
|-------------------------|----------------------------------|
| show                    | Show running system information  |
| scheduler               | Show scheduler config or data    |
| logfile                 | Display scheduler job output log |
| <i>__readonly__</i>     | (Optional)                       |
| <i>TABLE_joblog</i>     | (Optional) jobs log              |
| <i>jobname</i>          | (Optional) job name              |
| <i>jobstatus</i>        | (Optional) job status            |
| <i>schedulename</i>     | (Optional) schedulename          |
| <i>scheduleusername</i> | (Optional) scheduleusername      |
| <i>completiontime</i>   | (Optional) completiontime        |
| <i>joboutput</i>        | (Optional) joboutput             |

## Command Mode

- /exec

# show scheduler schedule

```
show scheduler schedule [ name <s0> ] [ __readonly__ [ { TABLE_schedules <schedulename> [
<scheduleusername> ] [ <scheduletype> ] [ <starttime> ] [ <lastexecetime> ] [ <lastcompletiontime> ] [
<execcount> ] [ <jobcount> ] [ { TABLE_jobs <jobname> [ <execstatus> ] } } ] ] ]
```

## Syntax Description

|                    |   |
|--------------------|---|
| show               | Show running system information         |
| scheduler          | Show scheduler config or data           |
| schedule           | Display schedule information            |
| name               | (Optional) Specify the name of schedule |
| s0                 | (Optional) Specify the schedule name    |
| __readonly__       | (Optional)                              |
| TABLE_schedules    | (Optional) schedules                    |
| schedulename       | (Optional) Schedule name                |
| scheduleusername   | (Optional) schedule username            |
| scheduletype       | (Optional) scheduletype                 |
| starttime          | (Optional) starttime                    |
| lastexecetime      | (Optional) last exec time               |
| lastcompletiontime | (Optional) lastcompletiontime           |
| execcount          | (Optional) execcount                    |
| jobcount           | (Optional) jobcount                     |
| TABLE_jobs         | (Optional) jobs                         |
| jobname            | (Optional) jobname                      |
| execstatus         | (Optional) execstatus                   |

## Command Mode

- /exec

## show segment-routing

```
show segment-routing [ detail ] [ __readonly__ <srvname> <state> <process_id> [ <srgb_min_label>
<srgb_max_label> <srgb_alloc_status> [ <oper_srgb_min_label> <oper_srgb_max_label> ] <cleanup_intvl>
<retry_intvl> [ <num_retries> ] [ <srgb_alloc_hdl> ] [ <cleanup_timer_state> <retry_timer_state> ] ] [
<ulib_reg_status> [ <ulib_pib_hdl> ] ] ]
```

### Syntax Description

|                            |                                       |
|----------------------------|---------------------------------------|
| show                       | Show running system information       |
| segment-routing            | Show segment-routing status info      |
| detail                     | (Optional) Show detailed information  |
| __readonly__               | (Optional)                            |
| <i>srvname</i>             | (Optional) Service name               |
| <i>state</i>               | (Optional) Process state              |
| <i>process_id</i>          | (Optional) Process id                 |
| <i>srgb_min_label</i>      | (Optional) Configured SRGB min label  |
| <i>srgb_max_label</i>      | (Optional) Configured SRGB max label  |
| <i>srgb_alloc_status</i>   | (Optional) SRGB allocation status     |
| <i>oper_srgb_min_label</i> | (Optional) Operational SRGB min label |
| <i>oper_srgb_max_label</i> | (Optional) Operational SRGB max label |
| <i>cleanup_intvl</i>       | (Optional) SRGB cleanup interval      |
| <i>retry_intvl</i>         | (Optional) SRGB alloc retry interval  |
| <i>num_retries</i>         | (Optional) SRGB alloc retries done    |
| <i>srgb_alloc_hdl</i>      | (Optional) SRGB alloc handle          |
| <i>cleanup_timer_state</i> | (Optional) SRGB cleanup timer state   |
| <i>retry_timer_state</i>   | (Optional) SRGB retry timer state     |
| <i>ulib_reg_status</i>     | (Optional) ULIB registration done     |
| <i>ulib_pib_hdl</i>        | (Optional) ULIB PIB handle            |

### Command Mode

- /exec

## show segment-routing clients

```
show segment-routing clients [ __readonly__ [ { TABLE_client <client_pib_name> <client_pib_index>
<client_uuid> <client_pid> <client_sap> [ { TABLE_tib <vrf_name> <tib_name> [ <pfxsid_cleanup_status>
] } ] } ] <total_clients> ]
```

### Syntax Description

|                              |                                       |
|------------------------------|---------------------------------------|
| show                         | Show running system information       |
| segment-routing              | Show segment-routing status info      |
| clients                      | Show client info                      |
| <i>__readonly__</i>          | (Optional)                            |
| TABLE_client                 | (Optional)                            |
| <i>client_pib_name</i>       | (Optional) Client name                |
| <i>client_pib_index</i>      | (Optional) Client pib index           |
| <i>client_uuid</i>           | (Optional) Client UUID                |
| <i>client_pid</i>            | (Optional) Client PID                 |
| <i>client_sap</i>            | (Optional) Client SAP                 |
| TABLE_tib                    | (Optional)                            |
| <i>vrf_name</i>              | (Optional) VRF name                   |
| <i>tib_name</i>              | (Optional) Table name                 |
| <i>pfxsid_cleanup_status</i> | (Optional) Prefixsid Cleanup Pending? |
| <i>total_clients</i>         | (Optional) Total number of clients    |

### Command Mode

- /exec

## show segment-routing ipv4 connected-prefix-sid-map

```
show segment-routing ipv4 connected-prefix-sid-map [ __readonly__ [ { TABLE_tib <vrf_name> <tib_name>
[ { TABLE_pfxsid <prefix> <index> <absolute> <range> <valid> } ] } ] ] ]
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information            |
| segment-routing          | Show segment-routing status info           |
| ipv4                     | Show info for IPv4 address-family          |
| connected-prefix-sid-map | Show prefix-sid mapping                    |
| <i>__readonly__</i>      | (Optional)                                 |
| <i>TABLE_tib</i>         | (Optional)                                 |
| <i>vrf_name</i>          | (Optional) Vrf name                        |
| <i>tib_name</i>          | (Optional) Table name                      |
| <i>TABLE_pfxsid</i>      | (Optional)                                 |
| <i>prefix</i>            | (Optional) Prefix                          |
| <i>index</i>             | (Optional) Segment ID                      |
| <i>absolute</i>          | (Optional) Segment ID is absolute?         |
| <i>range</i>             | (Optional) Range of Segment IDs from index |
| <i>valid</i>             | (Optional) Segment ID is valid?            |

### Command Mode

- /exec

## show segment-routing mpls

```
show segment-routing mpls [ detail ] [ __readonly__ <srvname> <state> <process_id> [ <srgb_min_label>
<srgb_max_label> <srgb_alloc_status> [ <oper_srgb_min_label> <oper_srgb_max_label> ] <cleanup_intvl>
<retry_intvl> [ <num_retries> ] [ <srgb_alloc_hdl> ] [ <cleanup_timer_state> <retry_timer_state> ] ] [
<ulib_reg_status> [ <ulib_pib_hdl> ] ] ]
```

### Syntax Description

|                     |                                       |
|---------------------|---------------------------------------|
| show                | Show running system information       |
| segment-routing     | Show segment-routing status info      |
| mpls                | Show segment-routing mpls info        |
| detail              | (Optional) Show detailed information  |
| __readonly__        | (Optional)                            |
| srvname             | (Optional) Service name               |
| state               | (Optional) Process state              |
| process_id          | (Optional) Process id                 |
| srgb_min_label      | (Optional) Configured SRGB min label  |
| srgb_max_label      | (Optional) Configured SRGB max label  |
| srgb_alloc_status   | (Optional) SRGB allocation status     |
| oper_srgb_min_label | (Optional) Operational SRGB min label |
| oper_srgb_max_label | (Optional) Operational SRGB max label |
| cleanup_intvl       | (Optional) SRGB cleanup interval      |
| retry_intvl         | (Optional) SRGB alloc retry interval  |
| num_retries         | (Optional) SRGB alloc retries done    |
| srgb_alloc_hdl      | (Optional) SRGB alloc handle          |
| cleanup_timer_state | (Optional) SRGB cleanup timer state   |
| retry_timer_state   | (Optional) SRGB retry timer state     |
| ulib_reg_status     | (Optional) ULIB registration done     |
| ulib_pib_hdl        | (Optional) ULIB PIB handle            |

### Command Mode

- /exec

## show segment-routing mpls clients

```
show segment-routing mpls clients [ __readonly__ [ { TABLE_client <client_pib_name> <client_pib_index>
<client_uuid> <client_pid> <client_sap> [ { TABLE_tib <vrf_name> <tib_name> [ <pxsid_cleanup_status>
] } ] } ] <total_clients> ]
```

### Syntax Description

|                             |                                       |
|-----------------------------|---------------------------------------|
| show                        | Show running system information       |
| segment-routing             | Show segment-routing status info      |
| mpls                        | Show segment-routing mpls info        |
| clients                     | Show client info                      |
| <i>__readonly__</i>         | (Optional)                            |
| <i>TABLE_client</i>         | (Optional)                            |
| <i>client_pib_name</i>      | (Optional) Client name                |
| <i>client_pib_index</i>     | (Optional) Client pib index           |
| <i>client_uuid</i>          | (Optional) Client UUID                |
| <i>client_pid</i>           | (Optional) Client PID                 |
| <i>client_sap</i>           | (Optional) Client SAP                 |
| <i>TABLE_tib</i>            | (Optional)                            |
| <i>vrf_name</i>             | (Optional) VRF name                   |
| <i>tib_name</i>             | (Optional) Table name                 |
| <i>pxsid_cleanup_status</i> | (Optional) Prefixsid Cleanup Pending? |
| <i>total_clients</i>        | (Optional) Total number of clients    |

### Command Mode

- /exec



## show segment-routing mpls ipv4 connected-prefix-sid-map

```
show segment-routing mpls ipv4 connected-prefix-sid-map [ __readonly__ [ { TABLE_tib <vrf_name>
<tib_name> [ { TABLE_pfxsid <prefix> <index> <absolute> <range> <valid> } ] } ] ] ]
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information            |
| segment-routing          | Show segment-routing status info           |
| mpls                     | Show segment-routing mpls info             |
| ipv4                     | Show info for IPv4 address-family          |
| connected-prefix-sid-map | Show prefix-sid mapping                    |
| <i>__readonly__</i>      | (Optional)                                 |
| <i>TABLE_tib</i>         | (Optional)                                 |
| <i>vrf_name</i>          | (Optional) Vrf name                        |
| <i>tib_name</i>          | (Optional) Table name                      |
| <i>TABLE_pfxsid</i>      | (Optional)                                 |
| <i>prefix</i>            | (Optional) Prefix                          |
| <i>index</i>             | (Optional) Segment ID                      |
| <i>absolute</i>          | (Optional) Segment ID is absolute?         |
| <i>range</i>             | (Optional) Range of Segment IDs from index |
| <i>valid</i>             | (Optional) Segment ID is valid?            |

### Command Mode

- /exec

# show sflow

```
show sflow [ __readonly__ <sampling-rate> <max-sampled-size> <counter-poll-interval> <max-datagram-size>
<collector-vrf> <collector-ip> [ <source-ip> ] <collector-port> <agent-ip> [ <data-source-interface> ] ]
```

## Syntax Description

|                              |                                    |
|------------------------------|------------------------------------|
| show                         | Show running system information    |
| sflow                        | Display sFlow global configuration |
| <i>__readonly__</i>          | (Optional) Read only               |
| <i>sampling-rate</i>         | (Optional) Sampling Rate           |
| <i>max-sampled-size</i>      | (Optional) Max Sampled Size        |
| <i>counter-poll-interval</i> | (Optional) Counter Poll Interval   |
| <i>max-datagram-size</i>     | (Optional) Max Datagram Size       |
| <i>collector-vrf</i>         | (Optional) Collector VRF           |
| <i>collector-ip</i>          | (Optional) Collector IP            |
| <i>source-ip</i>             | (Optional) Source IP               |
| <i>collector-port</i>        | (Optional) Collector Port          |
| <i>agent-ip</i>              | (Optional) Agent IP                |
| <i>data-source-interface</i> | (Optional) Data Source Interface   |

## Command Mode

- /exec

# show sflow statistics

```
show sflow statistics [ __readonly__ <total-packets> <total-samples> <processed-samples> <dropped-samples>
[ <rate-limiter-drops> ] [ <dropped-sflow-samples> ] <sent-datagrams> <dropped-datagrams> ]
```

## Syntax Description

|                              |                                    |
|------------------------------|------------------------------------|
| show                         | Show running system information    |
| sflow                        | Display sFlow global configuration |
| statistics                   | Display sFlow statistics           |
| <i>__readonly__</i>          | (Optional) Read only               |
| <i>total-packets</i>         | (Optional) Total Packets           |
| <i>total-samples</i>         | (Optional) Total Samples           |
| <i>processed-samples</i>     | (Optional) Processed Samples       |
| <i>dropped-samples</i>       | (Optional) Dropped Samples         |
| <i>rate-limiter-drops</i>    | (Optional) Rate-Limiter Drops      |
| <i>dropped-sflow-samples</i> | (Optional) Dropped sflow Samples   |
| <i>sent-datagrams</i>        | (Optional) Sent Datagrams          |
| <i>dropped-datagrams</i>     | (Optional) Dropped Datagrams       |

## Command Mode

- /exec

# show smart-channel

```
show smart-channel <svc-name> [ brief ] [ __readonly__ <is_firstentry> <is_detail> <is_active>
<is_firstentry_routemap> <is_firstentry_standby> <is_firstentry_acl> <is_lastentry> [ TABLE_summary
<service_name> <lb_scheme> [ <interface> ] <state> <buckets> [ <reason> ] <vrf_name> <userACL> [
TABLE_device <device_grp> <dg_probe> <dg_probe_port> ] [ TABLE_route_map [ <route_map> ] [
<interface> ] [ <r_status> ] [ <int_track_id> ] ] [ TABLE_vip [ <vip_ip> ] [ <vip_probe> ] [ <vip_port> ] [
TABLE_vip_node [ <vip_node> ] [ <vip_nodev6> ] <vip_config> <vip_weight> <vip_node_probe>
<vip_node_probe_port> <vip_node_probe_ip> <vip_status> <vip_track_id> <vip_ip_sla_id> [
TABLE_vip_standby [ <vip_standby_ip> ] [ <vip_standby_ipv6> ] <vip_standby_config>
<vip_standby_weight> <vip_standby_probe> <vip_standby_probe_port> <vip_standby_probe_ip>
<vip_standby_status> <vip_standby_track_id> <vip_standby_sla_id> ] [ TABLE_vip_acl [ <vip_access_list>
] ] ] ] [ TABLE_node [ <node> ] [ <nodev6> ] <config> <weight> <node_probe> <node_probe_port>
<node_probe_ip> <status> <track_id> <ip_sla_id> [ TABLE_standby [ <standby_ip> ] [ <standby_ipv6> ]
<standby_config> <standby_weight> <standby_probe> <standby_probe_port> <standby_probe_ip>
<standby_status> <standby_track_id> <standby_sla_id> ] [ TABLE_acl [ <access_list> ] ] ] ] ] ] ]
```

## Syntax Description

|                               |   |
|-------------------------------|---|
| show                          | Show running system information           |
| smart-channel                 | smart channel                             |
| <i>svc-name</i>               | smart channel name                        |
| brief                         | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <u>__readonly__</u>           | (Optional) Read Only                      |
| <i>is_firstentry</i>          | (Optional)                                |
| <i>is_detail</i>              | (Optional)                                |
| <i>is_active</i>              | (Optional)                                |
| <i>is_firstentry_routemap</i> | (Optional)                                |
| <i>is_firstentry_acl</i>      | (Optional)                                |
| <i>is_lastentry</i>           | (Optional)                                |
| <i>is_firstentry_standby</i>  | (Optional)                                |
| TABLE_summary                 | (Optional)                                |
| <i>service_name</i>           | (Optional) service_name                   |
| <i>lb_scheme</i>              | (Optional) lb scheme                      |
| <i>interface</i>              | (Optional) interface                      |
| <i>state</i>                  | (Optional) state                          |
| <i>buckets</i>                | (Optional) buckets                        |

|                            |                                 |
|----------------------------|---------------------------------|
| <i>reason</i>              | (Optional) inactive reason      |
| <i>vrf_name</i>            | (Optional) VRF-Name             |
| <i>userACL</i>             | (Optional) user access-list     |
| TABLE_device               | (Optional)                      |
| <i>device_grp</i>          | (Optional) service device group |
| <i>dg_probe</i>            | (Optional) probe type           |
| <i>dg_probe_port</i>       | (Optional) probe port           |
| TABLE_route_map            | (Optional)                      |
| <i>route_map</i>           | (Optional) service route map    |
| <i>interface</i>           | (Optional) interface            |
| <i>r_status</i>            | (Optional) route map status     |
| <i>int_track_id</i>        | (Optional) interface track id   |
| TABLE_vip                  | (Optional)                      |
| <i>vip_ip</i>              | (Optional) vip ip               |
| <i>vip_probe</i>           | (Optional) vip protocol         |
| <i>vip_port</i>            | (Optional) vip port             |
| TABLE_vip_node             | (Optional)                      |
| <i>vip_node</i>            | (Optional) service node ip      |
| <i>vip_nodev6</i>          | (Optional) service node IPv6    |
| <i>vip_config</i>          | (Optional) node config          |
| <i>vip_weight</i>          | (Optional) node weight          |
| <i>vip_status</i>          | (Optional) node status          |
| <i>vip_node_probe</i>      | (Optional) node probe type      |
| <i>vip_node_probe_port</i> | (Optional) node probe port      |
| <i>vip_node_probe_ip</i>   | (Optional) node probe ip        |
| <i>vip_track_id</i>        | (Optional) node track id        |
| <i>vip_ip_sla_id</i>       | (Optional) node ip sla id       |
| TABLE_vip_standby          | (Optional)                      |
| <i>vip_standby_ip</i>      | (Optional) standby node ip      |

|                               |                                    |
|-------------------------------|------------------------------------|
| <i>vip_standby_ipv6</i>       | (Optional) standby node ipv6       |
| <i>vip_standby_config</i>     | (Optional) standby node config     |
| <i>vip_standby_weight</i>     | (Optional) standby node weight     |
| <i>vip_standby_status</i>     | (Optional) standby node status     |
| <i>vip_standby_probe</i>      | (Optional) standby node probe type |
| <i>vip_standby_probe_port</i> | (Optional) standby node probe port |
| <i>vip_standby_probe_ip</i>   | (Optional) standby node probe ip   |
| <i>vip_standby_track_id</i>   | (Optional) standby node track id   |
| <i>vip_standby_sla_id</i>     | (Optional) standby node sla id     |
| TABLE_vip_acl                 | (Optional)                         |
| <i>vip_access_list</i>        | (Optional) access list             |
| TABLE_node                    | (Optional)                         |
| <i>node</i>                   | (Optional) service node ip         |
| <i>nodev6</i>                 | (Optional) service node IPv6       |
| <i>config</i>                 | (Optional) node config             |
| <i>weight</i>                 | (Optional) node weight             |
| <i>status</i>                 | (Optional) node status             |
| <i>node_probe</i>             | (Optional) node probe type         |
| <i>node_probe_port</i>        | (Optional) node probe port         |
| <i>node_probe_ip</i>          | (Optional) node probe ip           |
| <i>track_id</i>               | (Optional) node track id           |
| <i>ip_sla_id</i>              | (Optional) node ip sla id          |
| TABLE_standby                 | (Optional)                         |
| <i>standby_ip</i>             | (Optional) standby node ip         |
| <i>standby_ipv6</i>           | (Optional) standby node ipv6       |
| <i>standby_config</i>         | (Optional) standby node config     |
| <i>standby_weight</i>         | (Optional) standby node weight     |
| <i>standby_status</i>         | (Optional) standby node status     |
| <i>standby_probe</i>          | (Optional) standby node probe type |

|                           |                                    |
|---------------------------|------------------------------------|
| <i>standby_probe_port</i> | (Optional) standby node probe port |
| <i>standby_probe_ip</i>   | (Optional) standby node probe ip   |
| <i>standby_track_id</i>   | (Optional) standby node track id   |
| <i>standby_sla_id</i>     | (Optional) standby node sla id     |
| TABLE_acl                 | (Optional)                         |
| <i>access_list</i>        | (Optional) access list             |

**Command Mode**

- /exec

# show snapshots

show snapshots [ \_\_readonly\_\_ TABLE\_snapshot <snap\_name> <snap\_ctime> <description> ]

## Syntax Description

|                    |                                 |
|--------------------|---------------------------------|
| show               | Show running system information |
| snapshots          | Snapshots present on the switch |
| __readonly__       | (Optional)                      |
| TABLE_snapshot     | (Optional)                      |
| <i>snap_name</i>   | (Optional) snapshot name        |
| <i>snap_ctime</i>  | (Optional) snapshot create time |
| <i>description</i> | (Optional) snapshot description |

## Command Mode

- /exec



## show snapshots compare

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> [ __readonly__ TABLE_feature
<feat_name> [ <feat_state1> <feat_state2> ] [ TABLE_element <elemkey1> <elemval1> [ <elemkey2>
<elemval2> ] [ <elemkey3> <elemval3> ] [ <elemkey4> <elemval4> ] [ <elemstate1> <elemstate2> ] [
TABLE_value <tag> <val1> <val2> ] [ TABLE_subrow <subrowkey> <subrowval> [ <substate1> <substate2>
] [ TABLE_subvalue <tag> <val1> <val2> ] ] ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information         |
| snapshots               | Snapshots present on the switch         |
| compare                 | Compare two snapshots                   |
| <i>snapshot-name-T1</i> | Name of a snapshot taken at interval T1 |
| <i>snapshot-name-T2</i> | Name of a snapshot taken at interval T2 |
| <i>__readonly__</i>     | (Optional)                              |
| TABLE_feature           | (Optional)                              |
| <i>feat_name</i>        | (Optional) feature name                 |
| <i>feat_state1</i>      | (Optional) feature state in snapshot1   |
| <i>feat_state2</i>      | (Optional) feature state in snapshot2   |
| TABLE_element           | (Optional)                              |
| <i>elemkey1</i>         | (Optional) element key1                 |
| <i>elemval1</i>         | (Optional) element value1               |
| <i>elemkey2</i>         | (Optional) element key2                 |
| <i>elemval2</i>         | (Optional) element value2               |
| <i>elemkey3</i>         | (Optional) element key3                 |
| <i>elemval3</i>         | (Optional) element value3               |
| <i>elemkey4</i>         | (Optional) element key4                 |
| <i>elemval4</i>         | (Optional) element value4               |
| <i>elemstate1</i>       | (Optional) element state in snapshot 1  |
| <i>elemstate2</i>       | (Optional) element state in snapshot 2  |
| TABLE_value             | (Optional)                              |
| <i>tag</i>              | (Optional) element tag                  |

|                  |   |
|------------------|---|
| <i>val1</i>      | (Optional) element value for tag in snapshot1 |
| <i>val2</i>      | (Optional) element value for tag in snapshot2 |
| TABLE_subrow     | (Optional)                                    |
| <i>subrowkey</i> | (Optional) subrow key                         |
| <i>subrowval</i> | (Optional) subrow value                       |
| <i>substate1</i> | (Optional) subrow state in snapshot 1         |
| <i>substate2</i> | (Optional) subrow state in snapshot 2         |
| TABLE_subvalue   | (Optional)                                    |
| <i>tag</i>       | (Optional) subrow tag                         |
| <i>val1</i>      | (Optional) subrow value for tag in snapshot1  |
| <i>val2</i>      | (Optional) subrow value for tag in snapshot2  |

**Command Mode**

- /exec

## show snapshots compare ipv4routes

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> ipv4routes [ __readonly__
TABLE_summary <item_desc> <summary_val1> <summary_val2> [ <changed> ] [ TABLE_prefix <prefix>
<missing_snapshot> ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information         |
| snapshots               | Snapshots present on the switch         |
| compare                 | Compare two snapshots                   |
| <i>snapshot-name-T1</i> | Name of a snapshot taken at interval T1 |
| <i>snapshot-name-T2</i> | Name of a snapshot taken at interval T2 |
| ipv4routes              | Compare ipv4 route information          |
| <i>__readonly__</i>     | (Optional)                              |
| TABLE_summary           | (Optional)                              |
| <i>item_desc</i>        | (Optional) item description             |
| <i>summary_val1</i>     | (Optional) summary value in snapshot1   |
| <i>summary_val2</i>     | (Optional) summary value in snapshot2   |
| <i>changed</i>          | (Optional) changed flag                 |
| TABLE_prefix            | (Optional)                              |
| <i>prefix</i>           | (Optional) route prefix                 |
| <i>missing_snapshot</i> | (Optional) missing in snapshot name     |

### Command Mode

- /exec

# show snapshots compare ipv6routes

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> ipv6routes [ __readonly__
TABLE_summary <item_desc> <summary_val1> <summary_val2> [ <changed> ] [ TABLE_prefix <prefix>
<missing_snapshot> ] ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information         |
| snapshots               | Snapshots present on the switch         |
| compare                 | Compare two snapshots                   |
| <i>snapshot-name-T1</i> | Name of a snapshot taken at interval T1 |
| <i>snapshot-name-T2</i> | Name of a snapshot taken at interval T2 |
| ipv6routes              | Compare ipv6 route information          |
| <i>__readonly__</i>     | (Optional)                              |
| TABLE_summary           | (Optional)                              |
| <i>item_desc</i>        | (Optional) item description             |
| <i>summary_val1</i>     | (Optional) summary value in snapshot1   |
| <i>summary_val2</i>     | (Optional) summary value in snapshot2   |
| <i>changed</i>          | (Optional) changed flag                 |
| TABLE_prefix            | (Optional)                              |
| <i>prefix</i>           | (Optional) route prefix                 |
| <i>missing_snapshot</i> | (Optional) missing in snapshot name     |

## Command Mode

- /exec

# show snapshots compare summary

```
show snapshots compare <snapshot-name-T1> <snapshot-name-T2> summary [ __readonly__
TABLE_summary <item_desc> <summary_val1> <summary_val2> [ <changed> ] ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information         |
| snapshots               | Snapshots present on the switch         |
| compare                 | Compare two snapshots                   |
| <i>snapshot-name-T1</i> | Name of a snapshot taken at interval T1 |
| <i>snapshot-name-T2</i> | Name of a snapshot taken at interval T2 |
| summary                 | Compare summary information             |
| <i>__readonly__</i>     | (Optional)                              |
| <i>TABLE_summary</i>    | (Optional)                              |
| <i>item_desc</i>        | (Optional) item description             |
| <i>summary_val1</i>     | (Optional) summary value in snapshot1   |
| <i>summary_val2</i>     | (Optional) summary value in snapshot2   |
| <i>changed</i>          | (Optional) changed flag                 |

## Command Mode

- /exec

# show snapshots dump

show snapshots dump <snapshot-name> [ \_\_readonly\_\_ TABLE\_snapshot <file\_name> <snap\_name> ]

## Syntax Description

|                      |                                   |
|----------------------|-----------------------------------|
| show                 | Show running system information   |
| snapshots            | Snapshots present on the switch   |
| dump                 | Dump contents of snapshot         |
| <i>snapshot-name</i> | Name of a snapshot                |
| __readonly__         | (Optional)                        |
| TABLE_snapshot       | (Optional)                        |
| <i>file_name</i>     | (Optional) snapshot XML file name |
| <i>snap_name</i>     | (Optional) snapshot name          |

## Command Mode

- /exec

# show snapshots dump

```
show snapshots dump <snapshot-name> <section-name> [ __readonly__ TABLE_snapshot <file_name>
<snap_name> ]
```

## Syntax Description

|                           |                                   |
|---------------------------|-----------------------------------|
| show                      | Show running system information   |
| snapshots                 | Snapshots present on the switch   |
| dump                      | Dump contents of snapshot         |
| <i>snapshot-name</i>      | Name of a snapshot                |
| <i>section-name</i>       | Name of snapshot section          |
| <code>__readonly__</code> | (Optional)                        |
| TABLE_snapshot            | (Optional)                        |
| <i>file_name</i>          | (Optional) snapshot XML file name |
| <i>snap_name</i>          | (Optional) snapshot name          |

## Command Mode

- /exec

# show snapshots sections

show snapshots sections [ *\_\_readonly\_\_* *TABLE\_snapsection* <sectname> <sectcmd> <sectrow> <sectkey1> <sectkey2> ]

## Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information          |
| snapshots                | Snapshots present on the switch          |
| sections                 | User-specified snapshot sections         |
| <i>__readonly__</i>      | (Optional)                               |
| <i>TABLE_snapsection</i> | (Optional)                               |
| <i>sectname</i>          | (Optional) snapshot section name         |
| <i>sectcmd</i>           | (Optional) snapshot section show command |
| <i>sectrow</i>           | (Optional) snapshot section row id       |
| <i>sectkey1</i>          | (Optional) snapshot section key1         |
| <i>sectkey2</i>          | (Optional) snapshot section key2         |

## Command Mode

- /exec



# show snmp

```
show snmp [ __readonly__ <sys_contact> <sys_location> <snmp_input_packets> <bad_snmp_version>
<unknown_community_name> <illegal_community_name> <encoding_Err> <req_var_nums> <alt_var_nums>
<get_req_in> <getnext_req_in> <set_req_in> <noname_pdu_in> <badval_pdu_in> <ro_pdu_in>
<genral_err_in> <get_resp_in> <unknown_ctx> <snmp_output_packets> <trap_pdu> <toobig_err>
<noname_pdu_out> <badval_pdu_out> <genral_err_out> <get_req_out> <getnext_req_out> <set_req_out>
<get_resp_out> <silent_drops> [ <max_pkt_size> ] [ { TABLE_snmp_community <community_name>
<grouporaccess> <context> <aclfilter> } ] [ { TABLE_snmp_users <user> <auth> <priv> [ { TABLE_groups
<group> } ] [ <acl_filter> ] [ <engineID> } ] ] <tcp_auth_status> [ <port_mon_status> [ <policy_name>
<pol_admin_status> <plo_oper_status> <pol_port_type> [ TABLE_policies <counter> <threshold> <interval>
<rising_threshold> <rising_event> <falling_threshold> <falling_event> <pmon_config> ] ] ] [ <protocol_status>
] [ { TABLE_snmp_contexts <context_name> <proto_instanceid> <vrf> <topology> [ <vlan> | <MST> } ]
] ]
```

## Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information                          |
| snmp                          | show snmp information                                    |
| <i>__readonly__</i>           | (Optional) Read Only                                     |
| TABLE_snmp_community          | (Optional) Table that displays the community information |
| TABLE_snmp_users              | (Optional) Table that displays the user information      |
| TABLE_groups                  | (Optional) Table that displays the group information     |
| TABLE_policies                | (Optional) Table that displays the policy information    |
| TABLE_snmp_contexts           | (Optional) Table that displays the context information   |
| <i>sys_contact</i>            | (Optional) System Contact                                |
| <i>sys_location</i>           | (Optional) System Location                               |
| <i>snmp_input_packets</i>     | (Optional) SNMP input packets                            |
| <i>bad_snmp_version</i>       | (Optional) bad snmp version in Input SNMP packets        |
| <i>unknown_community_name</i> | (Optional) unknown community name in Input SNMP packets  |
| <i>illegal_community_name</i> | (Optional) Illegal community name in Input SNMP packets  |
| <i>encoding_Err</i>           | (Optional) Encoding Errors in Input SNMP packets         |
| <i>req_var_nums</i>           | (Optional) number of requested variables                 |
| <i>alt_var_nums</i>           | (Optional) number of altered variable                    |
| <i>get_req_in</i>             | (Optional) GET request in Input SNMP packets             |
| <i>getnext_req_in</i>         | (Optional) GET-NEXT request in Input SNMP packets        |

|                            |   |
|----------------------------|---|
| <i>set_req_in</i>          | (Optional) SET request in Input SNMP packets          |
| <i>noname_pdu_in</i>       | (Optional) NONAME PDU in Input SNMP packets           |
| <i>badval_pdu_in</i>       | (Optional) Bad value PDU in Input SNMP packets        |
| <i>ro_pdu_in</i>           | (Optional) Read only PDU in Input SNMP packets        |
| <i>genral_err_in</i>       | (Optional) Genral Error in Input SNMP packets         |
| <i>get_resp_in</i>         | (Optional) Get Response PDU in Input SNMP packets     |
| <i>unknown_ctx</i>         | (Optional) Unknown context Name in Input SNMP packets |
| <i>snmp_output_packets</i> | (Optional) SNMP Output Packets                        |
| <i>trap_pdu</i>            | (Optional) Trap PDU in Output SNMP Packets            |
| <i>toobig_err</i>          | (Optional) Too Big errors in Output SNMP Packets      |
| <i>noname_pdu_out</i>      | (Optional)  |
| <i>badval_pdu_out</i>      | (Optional) NoName PDU in Output SNMP Packets          |
| <i>genral_err_out</i>      | (Optional) Genral Error in Output SNMP Packets        |
| <i>get_req_out</i>         | (Optional) GET request in Output SNMP Packets         |
| <i>getnext_req_out</i>     | (Optional) GET-NEXTrequest in Output SNMP Packets     |
| <i>set_req_out</i>         | (Optional) SET request in Output SNMP packets         |
| <i>get_resp_out</i>        | (Optional) Get Response PDU in Output SNMP Packets    |
| <i>silent_drops</i>        | (Optional) Silent Drop packets                        |
| <i>max_pkt_size</i>        | (Optional) Maximum packet size                        |
| <i>community_name</i>      | (Optional) community name                             |
| <i>grouporaccess</i>       | (Optional) Group name                                 |
| <i>context</i>             | (Optional) context Name                               |
| <i>aclfilter</i>           | (Optional) Acl filter name                            |
| <i>user</i>                | (Optional) User name                                  |
| <i>auth</i>                | (Optional) Auth type                                  |
| <i>priv</i>                | (Optional) Priv Type                                  |
| <i>group</i>               | (Optional) Group name                                 |
| <i>acl_filter</i>          | (Optional) acl filter                                 |
| <i>engineID</i>            | (Optional) engine id for the user                     |

|                          |                                      |
|--------------------------|--------------------------------------|
| <i>tcp_auth_status</i>   | (Optional) TCP authentication status |
| <i>port_mon_status</i>   | (Optional) Port monitor status       |
| <i>policy_name</i>       | (Optional) policy name               |
| <i>pol_admin_status</i>  | (Optional) Policy Admin status       |
| <i>plo_oper_status</i>   | (Optional) Police oper status        |
| <i>pol_port_type</i>     | (Optional) policy port type          |
| <i>counter</i>           | (Optional) counters                  |
| <i>threshold</i>         | (Optional) Threshold                 |
| <i>interval</i>          | (Optional) Interval                  |
| <i>rising_threshold</i>  | (Optional) Rising threshold          |
| <i>rising_event</i>      | (Optional) Rising Event              |
| <i>falling_threshold</i> | (Optional) Falling threshold         |
| <i>falling_event</i>     | (Optional) Falling Event             |
| <i>pmon_config</i>       | (Optional) PMON configured           |
| <i>protocol_status</i>   | (Optional) Protocol Enable status    |
| <i>context_name</i>      | (Optional) context name              |
| <i>proto_instanceid</i>  | (Optional) Protocol instance ID      |
| <i>vrf</i>               | (Optional) VRF Name                  |
| <i>topology</i>          | (Optional) Topology                  |
| <i>vlan</i>              | (Optional) VLAN name                 |
| <i>MST</i>               | (Optional) MST name                  |

**Command Mode**

- /exec

# show snmp community

```
show snmp community [ __readonly__ { TABLE_snmp_community <community_name> <grouporaccess>
<context> <aclfilter> } ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information              |
| snmp                  | show snmp information                        |
| community             | show snmp community strings                  |
| __readonly__          | (Optional) Read Only                         |
| TABLE_snmp_community  | (Optional) contains all snmp community names |
| <i>community_name</i> | (Optional) community name                    |
| <i>grouporaccess</i>  | (Optional) group or access name              |
| <i>context</i>        | (Optional) context name                      |
| <i>aclfilter</i>      | (Optional) acl filter name                   |

## Command Mode

- /exec

## show snmp context

```
show snmp context [ __readonly__ { TABLE_snmp_contexts <context_name> <proto_instanceid> <vrf>
<topology> [ <vlan> | <MST> ] } ]
```

### Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information          |
| snmp                    | show snmp information                    |
| context                 | show snmp context mapping entries        |
| __readonly__            | (Optional)                               |
| TABLE_snmp_contexts     | (Optional) All SNMP Contexts Entries     |
| <i>context_name</i>     | (Optional) SNMP context Name             |
| <i>proto_instanceid</i> | (Optional) Name of the protocol instance |
| <i>vrf</i>              | (Optional) VRF name                      |
| <i>topology</i>         | (Optional) Name of the Topology          |
| <i>vlan</i>             | (Optional) VLAN Name                     |
| <i>MST</i>              | (Optional)                               |

### Command Mode

- /exec

# show snmp engineID

show snmp engineID [ \_\_readonly\_\_ <engineIDHex> <engineIDDec> ]

## Syntax Description

|                    |                                     |
|--------------------|-------------------------------------|
| show               | Show running system information     |
| snmp               | show snmp information               |
| engineID           | show snmp engineID                  |
| __readonly__       | (Optional)                          |
| <i>engineIDHex</i> | (Optional) SNMP engineID in HEX     |
| <i>engineIDDec</i> | (Optional) SNMP engineID in Decimal |

## Command Mode

- /exec

## show snmp group

```
show snmp group [ __readonly__ { TABLE_role <role_name> <role_description> [ <attribute_scope> ] [
<permit_vsan> ] [ <permit_vlan> ] [ <permit_vlan_id> ] [ <permit_interface> ] [ <permit_interface_slot> ]
[ <permit_vrf> ] [ TABLE_vrf<permit_vrf_name> ] [ { TABLE_rule [ <rule_num> ] [ <rule_action> ] {
<rule_permission> | <rule_permission_mds> } [ <rule_featuretype> ] [ <rule_entity> ] } } ] ]
```

### Syntax Description

|                              |                                 |
|------------------------------|---------------------------------|
| show                         | Show running system information |
| snmp                         | show snmp information           |
| group                        | show snmp group                 |
| <i>__readonly__</i>          | (Optional) Read Only            |
| TABLE_role                   | (Optional) Table displays role  |
| <i>role_name</i>             | (Optional) Role Name            |
| <i>role_description</i>      | (Optional) Role Description     |
| <i>attribute_scope</i>       | (Optional) Role scope           |
| <i>permit_vsan</i>           | (Optional) permitted vsan       |
| <i>permit_vlan</i>           | (Optional)                      |
| <i>permit_vlan_id</i>        | (Optional)                      |
| <i>permit_interface</i>      | (Optional)                      |
| <i>permit_interface_slot</i> | (Optional)                      |
| <i>permit_vrf</i>            | (Optional)                      |
| TABLE_rule                   | (Optional)                      |
| <i>rule_num</i>              | (Optional)                      |
| <i>rule_action</i>           | (Optional)                      |
| <i>rule_permission</i>       | (Optional)                      |
| <i>rule_permission_mds</i>   | (Optional)                      |
| <i>rule_featuretype</i>      | (Optional)                      |
| <i>rule_entity</i>           | (Optional)                      |

### Command Mode

- /exec

# show snmp host

```
show snmp host [ __readonly__ { TABLE_host <host><port><version><level><type><secname> [ [ <vrf>
] [ TABLE_vrf_filters <vrf_filter> ] [ <src_intf> ] ] } ]
```

## Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information                                    |
| snmp                     | show snmp information  |
| host                     | show snmp hosts  |
| <i>__readonly__</i>      | (Optional) Read Only   |
| <i>TABLE_host</i>        | (Optional) displays the list of hosts configured for snmp requests |
| <i>TABLE_vrf_filters</i> | (Optional) displays the host vrf filters                           |
| <i>vrf</i>               | (Optional) VRF Name  |
| <i>vrf_filter</i>        | (Optional) vrf filters   |
| <i>src_intf</i>          | (Optional) source interface  |

## Command Mode

- /exec



## show snmp mib igmpCacheTable

```
show snmp mib igmpCacheTable [ <igmpCacheAddress-in> ] [ <igmpCacheIfIndex-in> ] [ __readonly__
TABLE_igmpCacheTable <igmpCacheAddress-out> <igmpCacheIfIndex-out> <igmpCacheSelf>
<igmpCacheLastReporter> <igmpCacheUpTime> <igmpCacheExpiryTime> <igmpCacheStatus>
<igmpCacheVersion1HostTimer> ]
```

### Syntax Description

|                                   |  |
|-----------------------------------|--|
| show                              | Show running system information                  |
| snmp                              | show snmp  |
| mib                               | show mib tables                                  |
| igmpCacheTable                    | show mib table igmpCacheTable                    |
| <i>igmpCacheAddress-in</i>        | (Optional) igmpCacheAddress                      |
| <i>igmpCacheIfIndex-in</i>        | (Optional) igmpCacheIfIndex                      |
| <i>__readonly__</i>               | (Optional)                                       |
| TABLE_igmpCacheTable              | (Optional)                                       |
| <i>igmpCacheAddress-out</i>       | (Optional) mib table index igmpCacheAddress      |
| <i>igmpCacheIfIndex-out</i>       | (Optional) mib table index igmpCacheIfIndex      |
| <i>igmpCacheSelf</i>              | (Optional) mib object igmpCacheSelf              |
| <i>igmpCacheLastReporter</i>      | (Optional) mib object igmpCacheLastReporter      |
| <i>igmpCacheUpTime</i>            | (Optional) mib object igmpCacheUpTime            |
| <i>igmpCacheExpiryTime</i>        | (Optional) mib object igmpCacheExpiryTime        |
| <i>igmpCacheStatus</i>            | (Optional) mib object igmpCacheStatus            |
| <i>igmpCacheVersion1HostTimer</i> | (Optional) mib object igmpCacheVersion1HostTimer |

### Command Mode

- /exec

## show snmp mib igmpInterfaceTable

```
show snmp mib igmpInterfaceTable [ <igmpInterfaceIfIndex-in> ] [ __readonly__ TABLE_igmpInterfaceTable
<igmpInterfaceIfIndex-out> <igmpInterfaceQueryInterval> <igmpInterfaceStatus> <igmpInterfaceVersion>
<igmpInterfaceQuerier> <igmpInterfaceQueryMaxResponseTime> <igmpInterfaceQuerierUpTime>
<igmpInterfaceQuerierExpiryTime> <igmpInterfaceVersion1QuerierTimer>
<igmpInterfaceWrongVersionQueries> <igmpInterfaceJoins> <igmpInterfaceProxyIfIndex>
<igmpInterfaceGroups> <igmpInterfaceRobustness> <igmpInterfaceLastMembQueryIntvl> ]
```

### Syntax Description

|  |   |
|--|---|
| show                                     | Show running system information                         |
| snmp                                     | show snmp   |
| mib                                      | show mib tables   |
| igmpInterfaceTable                       | show mib table igmpInterfaceTable                       |
| <i>igmpInterfaceIfIndex-in</i>           | (Optional) igmpInterfaceIndex                           |
| <i>__readonly__</i>                      | (Optional)  |
| <i>TABLE_igmpInterfaceTable</i>          | (Optional)  |
| <i>igmpInterfaceIfIndex-out</i>          | (Optional) mib table index igmpInterfaceIfIndex         |
| <i>igmpInterfaceQueryInterval</i>        | (Optional) mib object igmpInterfaceQueryInterval        |
| <i>igmpInterfaceStatus</i>               | (Optional) mib object igmpInterfaceStatus               |
| <i>igmpInterfaceVersion</i>              | (Optional) mib object igmpInterfaceVersion              |
| <i>igmpInterfaceQuerier</i>              | (Optional) mib object igmpInterfaceQuerier              |
| <i>igmpInterfaceQueryMaxResponseTime</i> | (Optional) mib object igmpInterfaceQueryMaxResponseTime |
| <i>igmpInterfaceQuerierUpTime</i>        | (Optional) mib object igmpInterfaceQuerierUpTime        |
| <i>igmpInterfaceQuerierExpiryTime</i>    | (Optional) mib object igmpInterfaceQuerierExpiryTime    |
| <i>igmpInterfaceVersion1QuerierTimer</i> | (Optional) mib object igmpInterfaceVersion1QuerierTimer |
| <i>igmpInterfaceWrongVersionQueries</i>  | (Optional) mib object igmpInterfaceWrongVersionQueries  |
| <i>igmpInterfaceJoins</i>                | (Optional) mib object igmpInterfaceJoins                |
| <i>igmpInterfaceProxyIfIndex</i>         | (Optional) mib object igmpInterfaceProxyIfIndex         |
| <i>igmpInterfaceGroups</i>               | (Optional) mib object igmpInterfaceGroups               |
| <i>igmpInterfaceRobustness</i>           | (Optional) mib object igmpInterfaceRobustness           |
| <i>igmpInterfaceLastMembQueryIntvl</i>   | (Optional) mib object igmpInterfaceLastMembQueryIntvl   |

**Command Mode**

- /exec

# show snmp nms-statistics

```
show snmp nms-statistics [ __readonly__ <header> [ <nms_stats> ] ]
```

## Syntax Description

|                  |                                  |
|------------------|----------------------------------|
| show             | Show running system information  |
| snmp             | Show snmp information            |
| nms-statistics   | Show SNMP NMS statistics         |
| __readonly__     | (Optional) Read Only             |
| <i>header</i>    | (Optional) NMS Statistics header |
| <i>nms_stats</i> | (Optional) NMS Statistics        |

## Command Mode

- /exec

# show snmp oid-statistics

```
show snmp oid-statistics [ last-access ] [ __readonly__ <header> { TABLE_snmp_gen <oid_stats> |
TABLE_snmp_la <oid_last_access_stats> } ]
```

## Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information                         |
| snmp                         | Show snmp information                                   |
| oid-statistics               | Show SNMP oid statistics                                |
| last-access                  | (Optional) Show SNMP oid statistics of last-access      |
| __readonly__                 | (Optional) Read Only                                    |
| <i>header</i>                | (Optional) OID Statistics header                        |
| TABLE_snmp_gen               | (Optional) contains all snmp oid statistics             |
| <i>oid_stats</i>             | (Optional) OID Statistics                               |
| TABLE_snmp_la                | (Optional) contains all snmp oid last access statistics |
| <i>oid_last_access_stats</i> | (Optional) OID Last Access Statistics                   |

## Command Mode

- /exec

# show snmp sessions

show snmp sessions [ \_\_readonly\_\_ { TABLE\_session <dest> } ]

## Syntax Description

|               |                                       |
|---------------|---------------------------------------|
| show          | Show running system information       |
| snmp          | show snmp information                 |
| sessions      | show snmp sessions                    |
| __readonly__  | (Optional) Read Only                  |
| TABLE_session | (Optional) table displays destination |
| <i>dest</i>   | (Optional) destination                |

## Command Mode

- /exec

# show snmp source-interface

```
show snmp source-interface [ __readonly__ { <trap_srcintf> <informs_srcintf> } ]
```

## Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information                            |
| snmp                   | show snmp information                                      |
| source-interface       | show source-interface through which notifications are sent |
| __readonly__           | (Optional) Read Only                                       |
| <i>trap_srcintf</i>    | (Optional) Displays the source interface for traps         |
| <i>informs_srcintf</i> | (Optional) Displays the source interface for informs       |

## Command Mode

- /exec

# show snmp trap

```
show snmp trap [ __readonly__ { TABLE_snmp_trap <trap_type><description><isEnabled> } ]
```

## Syntax Description

|                 |                                      |
|-----------------|--------------------------------------|
| show            | Show running system information      |
| snmp            | show snmp information                |
| trap            | show snmp traps                      |
| __readonly__    | (Optional) Read Only                 |
| TABLE_snmp_trap | (Optional) All snmp traps configured |

## Command Mode

- /exec



## show snmp user

```
show snmp user [ <s0> [ engineID <s1> ] ] [ __readonly__ [ { TABLE_snmp_users <user> <auth> <priv> [ <group> ] + [ <acl_filter> ] [ <engineID> } } ] ]
```

### Syntax Description

|                   |  |
|-------------------|--|
| show              | Show running system information                                      |
| snmp              | show snmp information  |
| user              | show SNMPv3 users  |
| <i>s0</i>         | (Optional) Name of the user  |
| engineID          | (Optional) engineID  |
| <i>s1</i>         | (Optional) Target's SNMP engineID(colon separated) for SNMPv3 inform |
| __readonly__      | (Optional) Read Only   |
| TABLE_snmp_users  | (Optional) table displays the snmp users                             |
| <i>user</i>       | (Optional) user name   |
| <i>auth</i>       | (Optional) auth type   |
| <i>priv</i>       | (Optional) priv type   |
| <i>group</i>      | (Optional) group belongs to  |
| <i>acl_filter</i> | (Optional) acl filter  |
| <i>engineID</i>   | (Optional) engineID for specific user                                |

### Command Mode

- /exec

## show sockets client

```
show sockets client { [ pid <pid> ] [ tcp | udp | raw ] [ detail ] [ kstack-ns-all ] } [ __readonly__ [
TABLE_total_clients [ <socket-type> <total-clients> ] [ <no-total-clients> ] ] [ TABLE_cl_sk { <prefix>
<client-name> <pid> <No-of-clients> } [ <fast-tcp-mts-ctrl-q> ] [ { <cancel-requests> <cancel-unblocks>
<cancel-misses> <select-drops> <select-wakes> } ] [ TABLE_det [ { <fd> <client-id> [ <mts-sap> } ] ] ] [
TABLE_st [ <soc-calls> ] [ <bind-calls> ] [ <listen-calls> ] [ <accept-calls> ] [ <acc-dispat-err> ] [
<connect-calls> ] [ <connec-dispatch> ] [ <recvmsg-dispatch> ] [ <recv-dis-nblock> ] [ <recvmsg-call> ] [
<brecv-dispatch> ] [ <fsendmsg-calls> ] [ <sendmsg-dispatch> ] [ <sendmsg-calls> ] [ <msendmsg-calls> ] [
<select-calls> ] [ <select-dispatch> ] [ <select-need-work> ] [ <sh-calls> ] [ <close-calls> ] [ <fcntl-calls>
] [ <ioctl-calls> ] [ <setsock-calls> ] [ <getsock-calls> ] [ <getsockname-calls> ] [ <getpeer-calls> ] [
<fork-calls> ] [ <execve-calls> ] [ <dup-calls> ] [ <can-calls> ] [ <can-miss> ] [ <can-unblk-sele> ] [
<soc-ha-calls> ] [ <pfork-client> ] [ <read-fd> ] [ <write-fd> ] [ <read-fd-set> ] [ <write-fd-set> ] [
<fast-tcp-send-req> ] [ <fast-tcp-send-suc> ] [ <fast-tcp-ack> ] ] [ TABLE_sterr [ <sock-err> ] [
<sock-nodev-err> ] [ <bind-err> ] [ <lis-err> ] [ <accept-err> ] [ <connect-err> ] [ <recvmsg-err> ] [
<brecvmsg-err> ] [ <fsendmsg-err> ] [ <sendmsg-err> ] [ <msndmsg-err> ] [ <select-err> ] [ <sel-nomem-err>
] [ <shut-err> ] [ <close-err> ] [ <fcntl-err> ] [ <ioctl-err> ] [ <setsoc-err> ] [ <getsoc-err> ] [ <getsocname-err>
] [ <getpeername-err> ] [ <fork-err> ] [ <execve-err> ] [ <dup-err> ] [ <psoc-vrf-err> ] [ <psoc-nosoc-err> ]
] [ <psoc-sock-null-err> ] [ <psoc-socre-err> ] [ <pbind-nsoc-err> ] [ <pbd-getsocaddr> ] [ <pbind-sobind-err>
] [ <plisten-nsoc-err> ] [ <plis-solis-err> ] [ <pacc-nsoc-err> ] [ <pacc-no-nsoc-err> ] [ <pacc-soc-null-err>
] [ <pacc-copy-err> ] [ <pacc-no-acc-err> ] [ <pacc-woublo-err> ] [ <pacc-connabo-err> ] [
<pacc-cond-wait-err> ] [ <pacc-so-err-err> ] [ <pacc-err-err> ] [ <pcon-no-soc-err> ] [ <pcon-ealready-err>
] [ <pconn-getsock> ] [ <pconn-socon-err> ] [ <pconn-einpro-err> ] [ <pconn-con-wait-err> ] [
<psend-no-soc-err> ] [ <psend-inval-iovs> ] [ <psend-getsoc-err> ] [ <psend-msg-ctrl-err> ] [
<psend-sockarg-err> ] [ <psend-pru-sosend> ] [ <precv-nosock-err> ] [ <precv-inval-iovslen> ] [
<precv-pru-sorecv> ] [ <precv-cp-msg-err> ] [ <precv-cp-msg-nlen> ] [ <precv-cp-data-err> ] [
<pbreceive-err> ] [ <pshut-no-soc-err> ] [ <psetsoc-val-err> ] [ <psetsoc-inv-val> ] [ <psetsoc-no-soc-err>
] [ <psetsoc-sosetopt> ] [ <pgetsoc-no-socerr> ] [ <pgetsoc-cp-err> ] [ <pgetsoc-val-err> ] [ <pgetsoc-sogt-err>
] [ <pgtsoc-no-soc-err> ] [ <pgtsoc-cp-err> ] [ <pgtsoc-pru-soc-err> ] [ <pgtsoc-cpout-err> ] [
<pgtprne-no-soc-err> ] [ <pgtprne-enot-err> ] [ <pgtprne-cp-err> ] [ <pgtprne-pru-pradd> ] [
<pgtprne-cpout-err> ] [ <pclose-no-soc-err> ] [ <pclose-socnull-err> ] [ <pclose-p-cls2-err> ] [
<pfcntl-no-soc-err> ] [ <pfcntl-soc-null> ] [ <pfcntl-enotsup> ] [ <pfcntl-einval-err> ] [ <pioctl-no-soc-err>
] [ <pioctl-enotsup> ] [ <pioctl-pru-cntl> ] [ <pfork-enomem-err> ] [ <pdup-no-soc-err> ] [ <pudp-soc-null-err>
] [ <ha-nomem-err> ] [ <ha-tlv-err> ] [ <ha-soc-arg-err> ] [ <ha-cli-tlv-err> ] [ <ha-pss-upd-err> ] [
<ha-no-soc-err> ] [ <ha-soc-tlv-err> ] [ <ha-soc-pss-upd> ] [ <ha-inpcb-tlv> ] [ <ha-inpcb-pssky> ] [
<ha-ip-mopt-tlv> ] [ <ha-ip-mopt-pss> ] [ <ha-ip6-mopt-tlv> ] [ <ha-ip6-mopt-pss> ] [ <ha-tcpcb-tlv> ] [
<ha-tcpcb-pss> ] [ <ft-tcp-wblock> ] [ <ft-send-p-sndmsg> ] [ <ft-ack-rcv-no-soc> ] [ <!xc-tgid-err> ] ] [
TABLE_sp_cl [ <can-requests> <can-unblocks> <can-misses> <sel-drops> <sel-wakes> ] ] ] ] ]
```

### Syntax Description

|            |  |
|------------|--|
| show       | Show running system information                        |
| sockets    | Display sockets status and configuration               |
| client     | Display sockets client information                     |
| pid        | (Optional) Display specific client process information |
| <i>pid</i> | (Optional) Display client process <pid>                |

|                     |   |
|---------------------|---|
| tcp                 | (Optional) Display TCP clients                    |
| udp                 | (Optional) Display UDP clients                    |
| raw                 | (Optional) Display RAW clients                    |
| detail              | (Optional) Display socket details                 |
| kstack-ns-all       | (Optional) Show kernel clients for all namespaces |
| __readonly__        | (Optional)  |
| TABLE_total_clients | (Optional) Total no of client sockets             |
| socket-type         | (Optional) Sockets type                           |
| total-clients       | (Optional) total clients                          |
| no-total-clients    | (Optional) number of total clients                |
| TABLE_cl_sk         | (Optional) Display Client sockets                 |
| prefix              | (Optional) Prefix to the sockets                  |
| client-name         | (Optional) Display socket client info             |
| pid                 | (Optional) Display client process <pid>           |
| No-of-clients       | (Optional) Number of socket clients               |
| fast-tcp-mts-ctrl-q | (Optional) Fast tcp mts control queue             |
| cancel-requests     | (Optional) cancel requests                        |
| cancel-unblocks     | (Optional) cancel unblocks                        |
| cancel-misses       | (Optional) cancel misses                          |
| select-drops        | (Optional) select drops                           |
| select-wakes        | (Optional) select wakes                           |
| TABLE_det           | (Optional) Display Socket client Details          |
| fd                  | (Optional) Client socket fd                       |
| client-id           | (Optional) Client socket id                       |
| mts-sap             | (Optional) socket mts addr sap                    |
| TABLE_st            | (Optional) Sock detail Ctrl statistics            |
| soc-calls           | (Optional) sockets calls                          |
| bind-calls          | (Optional) socket bind calls                      |
| listen-calls        | (Optional) socket listen calls                    |

|                          |  |
|--------------------------|--|
| <i>accept-calls</i>      | (Optional) socket accept calls           |
| <i>acc-dispat-err</i>    | (Optional) socket accept dispatch error  |
| <i>connect-calls</i>     | (Optional) socket connect calls          |
| <i>connec-dispatch</i>   | (Optional) socket dispatch calls         |
| <i>recvmsg-dispatch</i>  | (Optional) receive msg dispatch          |
| <i>recv-dis-nblock</i>   | (Optional) receive dispatch nonblock     |
| <i>recvmsg-call</i>      | (Optional) receive message call          |
| <i>brecv-dispatch</i>    | (Optional) broadcast receive dispatch    |
| <i>fsendmsg-calls</i>    | (Optional) forward send message dispatch |
| <i>sendmsg-dispatch</i>  | (Optional) send message dispatch         |
| <i>sendmsg-calls</i>     | (Optional) send message calls            |
| <i>msendmsg-calls</i>    | (Optional) multicast send message calls  |
| <i>select-calls</i>      | (Optional) select calls                  |
| <i>select-dispatch</i>   | (Optional) select dispatch               |
| <i>select-need-work</i>  | (Optional) select need work              |
| <i>sh-calls</i>          | (Optional) show calls                    |
| <i>close-calls</i>       | (Optional) close calls                   |
| <i>fcntl-calls</i>       | (Optional) fcntl calls                   |
| <i>ioctl-calls</i>       | (Optional) ioctl calls                   |
| <i>setsock-calls</i>     | (Optional) setsock calls                 |
| <i>getsock-calls</i>     | (Optional) getsock calls                 |
| <i>getsockname-calls</i> | (Optional) get socket name calls         |
| <i>getpeer-calls</i>     | (Optional) get peer calls                |
| <i>fork-calls</i>        | (Optional) fork calls                    |
| <i>execve-calls</i>      | (Optional) execve calls                  |
| <i>dup-calls</i>         | (Optional) duplicate calls               |
| <i>can-calls</i>         | (Optional) cancel calls                  |
| <i>can-miss</i>          | (Optional) cancel miss                   |
| <i>can-unblk-sele</i>    | (Optional) cancel unblock select         |

|                          |   |
|--------------------------|---|
| <i>soc-ha-calls</i>      | (Optional) socket ha calls                        |
| <i>pfork-client</i>      | (Optional) pfork client                           |
| <i>read-fd</i>           | (Optional) socket read fd                         |
| <i>write-fd</i>          | (Optional) socket write fd                        |
| <i>read-fd-set</i>       | (Optional) socket read fd set                     |
| <i>write-fd-set</i>      | (Optional) socket write fd set                    |
| <i>fast-tcp-send-req</i> | (Optional) socket fast tcp send request           |
| <i>fast-tcp-send-suc</i> | (Optional) socket fast tcp send success           |
| <i>fast-tcp-ack</i>      | (Optional) socket fast tcp ack                    |
| TABLE_sterr              | (Optional) Client Socket Error Statistics         |
| <i>sock-err</i>          | (Optional) socket error                           |
| <i>sock-nODEV-err</i>    | (Optional) socket nodev error                     |
| <i>bind-err</i>          | (Optional) socket bind error                      |
| <i>lis-err</i>           | (Optional) socket listen error                    |
| <i>accept-err</i>        | (Optional) socket accept error                    |
| <i>connect-err</i>       | (Optional) socket connect error                   |
| <i>recvmsg-err</i>       | (Optional) socket receive message error           |
| <i>brcvmsg-err</i>       | (Optional) socket broadcast receive message error |
| <i>fsendmsg-err</i>      | (Optional) socket forward send message error      |
| <i>sendmsg-err</i>       | (Optional) socket send message error              |
| <i>msndmsg-err</i>       | (Optional) socket multicast send message error    |
| <i>select-err</i>        | (Optional) socket select error                    |
| <i>sel-nomem-err</i>     | (Optional) socket select no member error          |
| <i>shut-err</i>          | (Optional) socket shutdown error                  |
| <i>close-err</i>         | (Optional) socket close error                     |
| <i>fcntl-err</i>         | (Optional) socket fcntl error                     |
| <i>ioctl-err</i>         | (Optional) socket ioctl error                     |
| <i>setsoc-err</i>        | (Optional) set socket error                       |
| <i>getsoc-err</i>        | (Optional) get socket error                       |

|                           |   |
|---------------------------|---|
| <i>getsocname-err</i>     | (Optional) get socket name error        |
| <i>getpeername-err</i>    | (Optional) get peer name error          |
| <i>fork-err</i>           | (Optional) socket fork error            |
| <i>execve-err</i>         | (Optional) socket execve error          |
| <i>dup-err</i>            | (Optional) socket duplicate error       |
| <i>psoc-vrf-err</i>       | (Optional) psocket vrf error            |
| <i>psoc-nosoc-err</i>     | (Optional) psocket nosoc error          |
| <i>psoc-sock-null-err</i> | (Optional) psocket socket null error    |
| <i>psoc-socre-err</i>     | (Optional) psocket socre error          |
| <i>pbind-nsock-err</i>    | (Optional) pbind nsock error            |
| <i>pbid-getsocaddr</i>    | (Optional) pbd getsocaddr               |
| <i>pbind-sobind-err</i>   | (Optional) pbind sobind error           |
| <i>plisten-nsoc-err</i>   | (Optional) plisten nsoc error           |
| <i>plis-solis-err</i>     | (Optional) plisten socket listen error  |
| <i>pacc-nsoc-err</i>      | (Optional) paccept new socket error     |
| <i>pacc-no-nsoc-err</i>   | (Optional) paccept no new socket error  |
| <i>pacc-sock-null-err</i> | (Optional) paccept socket null error    |
| <i>pacc-copy-err</i>      | (Optional) paccept copy error           |
| <i>pacc-no-acc-err</i>    | (Optional) paccept no accept error      |
| <i>pacc-woublo-err</i>    | (Optional) paccept would block error    |
| <i>pacc-connabo-err</i>   | (Optional) paccept connect abort error  |
| <i>pacc-cond-wait-err</i> | (Optional) paccept condition wait error |
| <i>pacc-so-err-err</i>    | (Optional) paccept socket error         |
| <i>pacc-err-err</i>       | (Optional) paccept error                |
| <i>pcon-no-soc-err</i>    | (Optional) pconnect no socket error     |
| <i>pcon-ealready-err</i>  | (Optional) pconnect ready error         |
| <i>pconn-getsock</i>      | (Optional) pconnect get socket          |
| <i>pconn-socon-err</i>    | (Optional) pconnect socket on error     |
| <i>pconn-einpro-err</i>   | (Optional) pconnect einprogress error   |

|                           |  |
|---------------------------|--|
| <i>pconn-con-wait-err</i> | (Optional) pconnect condition wait error     |
| <i>psend-no-soc-err</i>   | (Optional) psend no socket error             |
| <i>psend-ival-iov</i>     | (Optional) psend invalidate iov              |
| <i>psend-getsoc-err</i>   | (Optional) psend getsocket error             |
| <i>psend-msg-ctrl-err</i> | (Optional) psend message control error       |
| <i>psend-sockarg-err</i>  | (Optional) psend socket argument error       |
| <i>psend-pru-sosend</i>   | (Optional) psend pru socket send             |
| <i>precv-nosock-err</i>   | (Optional) preceive no socket error          |
| <i>precv-ival-iovlen</i>  | (Optional) preceive invalidate iovlen        |
| <i>precv-pru-sorecv</i>   | (Optional) preceive pru so receive           |
| <i>precv-cp-msg-err</i>   | (Optional) preceive copy message error       |
| <i>precv-cp-msg-nlen</i>  | (Optional) preceive copy message new length  |
| <i>precv-cp-data-err</i>  | (Optional) preceive copy data error          |
| <i>pbrecv-rcvmsg-err</i>  | (Optional) preceive receive message error    |
| <i>pshut-no-soc-err</i>   | (Optional) pshutdown no socket error         |
| <i>psetsoc-val-err</i>    | (Optional) pset socket value error           |
| <i>psetsoc-inv-val</i>    | (Optional) pset socket invalidate error      |
| <i>psetsoc-no-soc-err</i> | (Optional) pset socket no socket error       |
| <i>psetsoc-sosetopt</i>   | (Optional) pset socket set opt               |
| <i>pgetsoc-no-socerr</i>  | (Optional) pget socket no socket error       |
| <i>pgetsoc-cp-err</i>     | (Optional) pget socket copy error            |
| <i>pgetsoc-val-err</i>    | (Optional) pget socket validate error        |
| <i>pgetsoc-sogt-err</i>   | (Optional) pget socket sogt error            |
| <i>pgtsoc-no-soc-err</i>  | (Optional) pget socket no socket error       |
| <i>pgtsoc-cp-err</i>      | (Optional) pget socket copy error            |
| <i>pgtsoc-pru-soc-err</i> | (Optional) pget socket pru socket error      |
| <i>pgtsoc-cpout-err</i>   | (Optional) pget socket copy out error        |
| <i>pgtprne-no-soc-err</i> | (Optional) pget peer name no socket error    |
| <i>pgtprne-enot-err</i>   | (Optional) pget peer name enot connect error |

|                           |  |
|---------------------------|--|
| <i>pgtprne-cp-err</i>     | (Optional) pget peer name copy error       |
| <i>pgtprne-pru-pradd</i>  | (Optional) pget peer name pru peer address |
| <i>pgtprne-cpout-err</i>  | (Optional) pget peer name copy out error   |
| <i>pclose-no-soc-err</i>  | (Optional) pclose no socket error          |
| <i>pclose-socnull-err</i> | (Optional) pclose socket null error        |
| <i>pclose-p-cls2-err</i>  | (Optional) pclose p close2 error           |
| <i>pfcntl-no-soc-err</i>  | (Optional) pfcntl no socket error          |
| <i>pfcntl-soc-null</i>    | (Optional) pfcntl socket null              |
| <i>pfcntl-enotsup</i>     | (Optional) pfcntl enotsupport errors       |
| <i>pfcntl-einval-err</i>  | (Optional) pfcntl invalidate error         |
| <i>pioctl-no-soc-err</i>  | (Optional) pioctl no socket error          |
| <i>pioctl-enotsup</i>     | (Optional) pioctl enotsup                  |
| <i>pioctl-pru-cntl</i>    | (Optional) pioctl pru cntl                 |
| <i>pfork-enomem-err</i>   | (Optional) pfork eno-memory error          |
| <i>pdup-no-soc-err</i>    | (Optional) pudp no socket error            |
| <i>pdup-soc-null-err</i>  | (Optional) pudp socket null error          |
| <i>ha-nomem-err</i>       | (Optional) ha no memory error              |
| <i>ha-tlv-err</i>         | (Optional) ha tlv error                    |
| <i>ha-soc-arg-err</i>     | (Optional) ha socket argument error        |
| <i>ha-cli-tlv-err</i>     | (Optional) ha cli tlv error                |
| <i>ha-pss-upd-err</i>     | (Optional) ha pss udp error                |
| <i>ha-no-soc-err</i>      | (Optional) ha no socket error              |
| <i>ha-soc-tlv-err</i>     | (Optional) ha socket tlv error             |
| <i>ha-soc-pss-upd</i>     | (Optional) ha socket pss udp               |
| <i>ha-inpcb-tlv</i>       | (Optional) ha inpcb tlv value              |
| <i>ha-inpcb-pssky</i>     | (Optional) ha inpcb pssky value            |
| <i>ha-ip-mopt-tlv</i>     | (Optional) ha ip mopt tlv value            |
| <i>ha-ip-mopt-pss</i>     | (Optional) ha ip mopt pss value            |
| <i>ha-ip6-mopt-tlv</i>    | (Optional) ha ip6 mopt tlv value           |



|                          |   |
|--------------------------|---|
| <i>ha-ip6-mopt-pss</i>   | (Optional) ha ip6 mopt pss value                      |
| <i>ha-tcpcb-tlv</i>      | (Optional) ha socket update tcpcb to tlv error        |
| <i>ha-tcpcb-pss</i>      | (Optional) ha socket update tcpcb psskey update error |
| <i>ft-tcp-wblock</i>     | (Optional) fast tcp send would block error            |
| <i>ft-send-p-sndmsg</i>  | (Optional) fast tcp send p_sendmsg errors             |
| <i>ft-ack-rcv-no-soc</i> | (Optional) fast ack receive no socket                 |
| <i>lxc-tgid-err</i>      | (Optional) Containers tgid err                        |
| TABLE_sp_cl              | (Optional) Sock specific Ctrl statistics              |
| <i>can-requests</i>      | (Optional) socket control cancel request              |
| <i>can-unblocks</i>      | (Optional) socket cancel unblocks                     |
| <i>can-misses</i>        | (Optional) socket cancel misses                       |
| <i>sel-drops</i>         | (Optional) select drops                               |
| <i>sel-wakes</i>         | (Optional) select wakes                               |

**Command Mode**

- /exec

## show sockets connection

```
show sockets connection [ pid <pid> | tcp | udp | raw ] [ local { <srcIP> | <srcIP6> } ] [ foreign { <dstIP> | <dstIP6> } ] [ detail ] [ keydetails ] [ __readonly__ [ { TABLE_sockets <protocol> [ <total-conn-count> ] [ { TABLE_conn <afi> [ <laddr> ] [ <lport> ] [ <faddr> ] [ <fport> ] [ <prot> ] [ <type> ] [ <ttl> ] [ <tos> ] [ <options> ] [ <state> ] [ <rcv-count> ] [ <rcv-hiwat> ] [ <rcv-lowat> ] [ <rcv-flags> ] [ <snd-count> ] [ <snd-hiwat> ] [ <snd-lowat> ] [ <snd-flags> ] [ <iss> ] [ <snd-una> ] [ <snd-nxt> ] [ <snd_wnd> ] [ <irs> ] [ <rcv-nxt> ] [ <rcv-wnd> ] [ <snd-cwnd> ] [ <ooo_pkt_rcv> ] [ <ooo_pkt_drpd> ] [ <ooo_pkt_rqc> ] [ <srtt> ] [ <rtt> ] [ <rttvar> ] [ <krtt> ] [ <rttmin> ] [ <mss> ] [ <dur> ] [ <tcp-state> ] [ <flags> ] [ <md5-cnt> ] [ <md5-host> ] [ <md5-err> ] [ <tcp-count> ] [ <udp-count> ] [ <raw-count> ] [ <vrf-name> ] [ <intf> } ] ] ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information                                       |
| sockets                 | Display sockets status and configuration                              |
| connection              | Display connection information  |
| pid                     | (Optional) Display specific client process connection status          |
| <i>pid</i>              | (Optional) Display client process connection status <pid>             |
| tcp                     | (Optional) Display all TCP connections                                |
| udp                     | (Optional) Display all UDP connections                                |
| raw                     | (Optional) Display all raw connections                                |
| local                   | (Optional) Display all TCP connections with specified local address   |
| <i>srcIP</i>            | (Optional) Display all TCP connections with specified local address   |
| foreign                 | (Optional) Display all TCP connections with specified foreign address |
| <i>dstIP</i>            | (Optional) Display all TCP connections with specified foreign address |
| detail                  | (Optional) Display detailed connection information                    |
| keydetails              | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                             |
| __readonly__            | (Optional)  |
| TABLE_sockets           | (Optional) sockets table  |
| <i>protocol</i>         | (Optional) socket protocol  |
| <i>total-conn-count</i> | (Optional) socket connection table                                    |
| TABLE_conn              | (Optional)  |
| <i>afi</i>              | (Optional) socket family  |

|                     |  |
|---------------------|--|
| <i>prot</i>         | (Optional) socket protocol                                       |
| <i>tcp-state</i>    | (Optional) socket tcp state                                      |
| <i>rcv-count</i>    | (Optional) socket connection receive count                       |
| <i>laddr</i>        | (Optional) socket connection laddr                               |
| <i>lport</i>        | (Optional) socket connection lport                               |
| <i>faddr</i>        | (Optional) socket connection faddr                               |
| <i>fport</i>        | (Optional) socket connection fport                               |
| <i>intf</i>         | (Optional) socket connection interface                           |
| <i>vrf-name</i>     | (Optional) socket vrf name                                       |
| <i>snd-count</i>    | (Optional) socket connection send count                          |
| <i>type</i>         | (Optional) socket connection type                                |
| <i>ttl</i>          | (Optional) socket connection ttl                                 |
| <i>tos</i>          | (Optional) socket connection tos                                 |
| <i>options</i>      | (Optional) socket connection option                              |
| <i>state</i>        | (Optional) socket connection state                               |
| <i>iss</i>          | (Optional) socket connection iss                                 |
| <i>snd-una</i>      | (Optional) socket connection send unavailable                    |
| <i>snd-nxt</i>      | (Optional) socket connection send next                           |
| <i>snd_wnd</i>      | (Optional) socket connection send window                         |
| <i>irs</i>          | (Optional) socket connection irs                                 |
| <i>rcv-nxt</i>      | (Optional) socket connection receive next                        |
| <i>rcv-wnd</i>      | (Optional) socket connection receive window                      |
| <i>snd-cwnd</i>     | (Optional) socket connection close sent window                   |
| <i>ooo_pkt_rcv</i>  | (Optional) socket connection out-of-order packet received        |
| <i>ooo_pkt_drpd</i> | (Optional) socket connection out-of-order packet dropped         |
| <i>ooo_pkt_rqc</i>  | (Optional) socket connection out-of-order reassembly queue count |
| <i>srtt</i>         | (Optional) socket connection srtt                                |
| <i>rtt</i>          | (Optional) socket connection rtt                                 |
| <i>rttvar</i>       | (Optional) socket connection rttvar                              |

|                  |  |
|------------------|--|
| <i>krtt</i>      | (Optional) socket connection krtt          |
| <i>rttmin</i>    | (Optional) socket connection rtt mintues   |
| <i>mss</i>       | (Optional) socket connection mss           |
| <i>dur</i>       | (Optional) socket connection duration      |
| <i>flags</i>     | (Optional) socket connection flags         |
| <i>md5-cnt</i>   | (Optional) socket connection md5 count     |
| <i>md5-host</i>  | (Optional) socket connection md5 host      |
| <i>md5-err</i>   | (Optional) socket connection md5 error     |
| <i>rcv-hiwat</i> | (Optional) socket connection receive hiwat |
| <i>rcv-lowat</i> | (Optional) socket connection receive lowat |
| <i>rcv-flags</i> | (Optional) socket connection receive flags |
| <i>snd-hiwat</i> | (Optional) socket connection send hiwat    |
| <i>snd-lowat</i> | (Optional) socket connection send lowat    |
| <i>snd-flags</i> | (Optional) socket connection send flags    |
| <i>tcp-count</i> | (Optional) socket connection tcp count     |
| <i>udp-count</i> | (Optional) socket connection udp count     |
| <i>raw-count</i> | (Optional) socket connection raw count     |

**Command Mode**

- /exec

## show sockets local-port-range

```
show sockets local-port-range [ __readonly__ <kstack_local_port_range_start> <kstack_local_port_range_end>
<netstack_local_port_range_start> <netstack_local_port_range_end> <nat_local_port_range_start>
<nat_local_port_range_end> ]
```

### Syntax Description

|  |  |
|--|--|
| show                                   | Show running system information            |
| sockets                                | Display sockets status and configuration   |
| local-port-range                       | Display local port range                   |
| __readonly__                           | (Optional)                                 |
| <i>kstack_local_port_range_start</i>   | (Optional) Kstack local port range start   |
| <i>kstack_local_port_range_end</i>     | (Optional) Kstack local port range end     |
| <i>netstack_local_port_range_start</i> | (Optional) Netstack local port range start |
| <i>netstack_local_port_range_end</i>   | (Optional) Netstack local port range end   |
| <i>nat_local_port_range_start</i>      | (Optional) Nat local port range start      |
| <i>nat_local_port_range_end</i>        | (Optional) Nat local port range end        |

### Command Mode

- /exec

## show sockets ns-port-kiosk

```
show sockets ns-port-kiosk [ __readonly__ [ TABLE_port_kiosk { <client-process-id> <client-name> } [
TABLE_port_state_pro_name { <entry-counter> [ <listening-port> ] [ <fwd-port> ] [ <tcp-state> ] [ <mts-sap>
] [ <protocol-name> ] } ] ] ]
```

### Syntax Description

|                                  |   |
|----------------------------------|---|
| show                             | Show running system information                       |
| sockets                          | Display sockets status and configuration              |
| ns-port-kiosk                    | Display port kiosk for netstack socket clients        |
| <i>__readonly__</i>              | (Optional)  |
| <i>TABLE_port_kiosk</i>          | (Optional) Sockets ns port kiosk information          |
| <i>client-process-id</i>         | (Optional) Client Process ID                          |
| <i>client-name</i>               | (Optional) Client Name                                |
| <i>TABLE_port_state_pro_name</i> | (Optional) Sockets ns port state protocol information |
| <i>entry-counter</i>             | (Optional) Table Entry Counter                        |
| <i>listening-port</i>            | (Optional) Listening Port                             |
| <i>fwd-port</i>                  | (Optional) FWD Port                                   |
| <i>tcp-state</i>                 | (Optional) TCP State                                  |
| <i>mts-sap</i>                   | (Optional) MTS SAP                                    |
| <i>protocol-name</i>             | (Optional) Protocol Name                              |

### Command Mode

- /exec

## show sockets statistics

```

show sockets statistics [ all | tcp | tcp6 | tcpsum | udp | udp6 | udpsum | raw | raw6 | rawsum ] [ __readonly__
[ { TABLE_stat [ <rx-total> ] [ <rx-bad-csum> ] [ <rx-bad-offset> ] [ <rx-too-short> ] [ <rx-bad-md5> ] [
<rx-inseq-pack> ] [ <rx-inseq-bytes> ] [ <rx-dup-pack> ] [ <rx-dup-bytes> ] [ <rx-partdup-pack> ] [
<rx-partdup-bytes> ] [ <rx-oo-pack> ] [ <rx-oo-bytes> ] [ <rx-oo-drop-cnt> ] [ <rx-afterwin-pack> ] [
<rx-afterwin-bytes> ] [ <rx-afterclose-pack> ] [ <rx-winprobe-pack> ] [ <rx-winupdate-pack> ] [
<rx-dupack-pack> ] [ <rx-dupack-unsent-pack> ] [ <rx-ack-pack> ] [ <rx-ack-bytes> ] [ <rx-rcv-memdrop>
] [ <rx-dig-mssing> ] [ <rx-dig-unexpected> ] [ <rx-dig-notused> ] [ <rx-dig-valid> ] [ <rx-dig-invalid> ] [
<rx-get-passwd-fail> ] [ <rx-md5-mbuf-exded> ] [ <rx-uspec-src-recv> ] [ <rx-pkt-too-short> ] [ <rx-sin-finest>
] [ <rx-black-hole-syn> ] [ <rx-black-hole> ] [ <rx-drop-no-inpcb> ] [ <rx-drop-notpcb> ] [
<rx-drp-sock-closed> ] [ <rx-syn-with-rst> ] [ <rx-syn-drop> ] [ <rx-bandlim> ] [ <rx-forged-pkt> ] [
<rx-drp-mbcast> ] [ <rx-drp-syn-add> ] [ <rx-drp-syn-recvd> ] [ <rx-drp-cc-sent> ] [ <rx-drp-rst-csent> ] [
<rx-frecv-enqueue> ] [ <rx-frecv-enqueue-fail> ] [ <rx-ftp-cant-rcv-more> ] [ <rx-ftp-data-ack-toapp-fail>
] [ <rx-ftp-data-ack-toapp> ] [ <tx-total> ] [ <tx-urg> ] [ <tx-ctrl> ] [ <tx-data-pack> ] [ <tx-data-bytes> ] [
<tx-reasm-pack> ] [ <tx-reasm-bytes> ] [ <tx-ackonly-pack> ] [ <tx-winprobe-pack> ] [ <tx-winupdate-bytes>
] [ <tx-encrypt> ] [ <tx-unencrypt> ] [ <tx-md5rst> ] [ <tx-conn-init> ] [ <tx-conn-accepted> ] [ <tx-conn-estd>
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```

### Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information                                  |
| sockets                | Display sockets status and configuration                         |
| statistics             | Display sockets statistics                                       |
| all                    | (Optional) Display TCP/UDP/RAW v4/v6 protocols statistics        |
| tcp                    | (Optional) Display TCP v4 protocol statistics                    |
| tcp6                   | (Optional) Display TCP v6 protocol statistics                    |
| tcpsum                 | (Optional) Display sum of TCP v4 and TCP v6 protocols statistics |
| udp                    | (Optional) Display UDP v4 protocol statistics                    |
| udp6                   | (Optional) Display UDP v6 protocol statistics                    |
| udpsum                 | (Optional) Display sum of UDP v4 and UDP v6 protocols statistics |
| raw                    | (Optional) Display RAW v4 protocol statistics                    |
| raw6                   | (Optional) Display RAW v6 protocol statistics                    |
| rawsum                 | (Optional) Display sum of RAW v4 and RAW v6 protocols statistics |
| __readonly__           | (Optional)   |
| TABLE_stat             | (Optional) sockets statistics table                              |
| <i>rx-total</i>        | (Optional) total packets received                                |
| <i>rx-bad-csum</i>     | (Optional) packets received with ccksum errs                     |
| <i>rx-bad-offset</i>   | (Optional) packets received with bad offset                      |
| <i>rx-too-short</i>    | (Optional) packets received too short                            |
| <i>rx-bad-md5</i>      | (Optional) Recieved bad digest                                   |
| <i>rx-inseq-pack</i>   | (Optional) packets received in sequence                          |
| <i>rx-inseq-bytes</i>  | (Optional) bytes received in sequence                            |
| <i>rx-dup-pack</i>     | (Optional) duplicate-only packets received                       |
| <i>rx-dup-bytes</i>    | (Optional) duplicate-only bytes received                         |
| <i>rx-partdup-pack</i> | (Optional) packets with some duplicate data                      |



|                              |   |
|------------------------------|---|
| <i>rx-partdup-bytes</i>      | (Optional) dup. bytes in part-dup. packets      |
| <i>rx-oo-pack</i>            | (Optional) out-of-order packets received        |
| <i>rx-oo-bytes</i>           | (Optional) out-of-order bytes received          |
| <i>rx-oo-drop-cnt</i>        | (Optional) out-of-order drop count              |
| <i>rx-afterwin-pack</i>      | (Optional) packets with data after window       |
| <i>rx-afterwin-bytes</i>     | (Optional) bytes rcvd after window              |
| <i>rx-afterclose-pack</i>    | (Optional) packets rcvd after close             |
| <i>rx-winprobe-pack</i>      | (Optional) rcvd window probe packets            |
| <i>rx-winupdate-pack</i>     | (Optional) rcvd window update packets           |
| <i>rx-dupack-pack</i>        | (Optional) rcvd duplicate acks                  |
| <i>rx-dupack-unsent-pack</i> | (Optional) rcvd acks for unsent data            |
| <i>rx-ack-pack</i>           | (Optional) rcvd ack packets                     |
| <i>rx-ack-bytes</i>          | (Optional) bytes acked by rcvd acks             |
| <i>rx-rcv-memdrop</i>        | (Optional) packets dropped for lack of memory   |
| <i>rx-dig-mssing</i>         | (Optional) digest missing                       |
| <i>rx-dig-unexpected</i>     | (Optional) digest unexpected                    |
| <i>rx-dig-notused</i>        | (Optional) digest not used                      |
| <i>rx-dig-valid</i>          | (Optional) digest valid                         |
| <i>rx-dig-invalid</i>        | (Optional) digest invalid                       |
| <i>rx-get-passwd-fail</i>    | (Optional) get pass failed for RST              |
| <i>rx-md5-mbuf-exded</i>     | (Optional) md5 passwd exceeds mbuf              |
| <i>rx-uspec-src-recv</i>     | (Optional) Dropped Unspecified src pkt recieved |
| <i>rx-pkt-too-short</i>      | (Optional) Dropped Packet too short             |
| <i>rx-sin-finest</i>         | (Optional) Dropped packet set with SYN/FIN      |
| <i>rx-black-hole-syn</i>     | (Optional) Dropped black hole SYN               |
| <i>rx-black-hole</i>         | (Optional) Dropped black hole                   |
| <i>rx-drop-no-inpcb</i>      | (Optional) Dropped no inpcb                     |
| <i>rx-drop-notpcb</i>        | (Optional) Dropped no tcpb                      |
| <i>rx-drp-sock-closed</i>    | (Optional) Dropped socket closed                |

|                                    |   |
|------------------------------------|---|
| <i>rx-syn-with-rst</i>             | (Optional) Dropped SYN with reset             |
| <i>rx-syn-drop</i>                 | (Optional) Dropped SYN                        |
| <i>rx-bandlim</i>                  | (Optional) Dropped Bandlim rst open port      |
| <i>rx-forged-pkt</i>               | (Optional) Dropped Same src/dst               |
| <i>rx-drp-mbcast</i>               | (Optional) Dropped Broadcast/Multicast        |
| <i>rx-drp-syn-add</i>              | (Optional) Dropped Adding SYN failed          |
| <i>rx-drp-syn-recvd</i>            | (Optional) ACK recvd not for our SYN          |
| <i>rx-drp-cc-sent</i>              | (Optional) Dropped cc sent                    |
| <i>rx-drp-rst-ccsent</i>           | (Optional) Dropped cc sent with reset         |
| <i>rx-frecv-enqueue</i>            | (Optional) Fast recv packets enqueued         |
| <i>rx-frecv-enqueue-fail</i>       | (Optional) Fast recv enqueue failed           |
| <i>rx-ftcp-cant-rcv-more</i>       | (Optional) Fast TCP can not recv more         |
| <i>rx-ftcp-data-ack-toapp-fail</i> | (Optional) Fast TCP data ACK to app failed    |
| <i>rx-ftcp-data-ack-toapp</i>      | (Optional) Fast TCP data ACK to app           |
| <i>tx-total</i>                    | (Optional) total packets sent                 |
| <i>tx-urg</i>                      | (Optional) packets sent with URG only         |
| <i>tx-ctrl</i>                     | (Optional) control (SYN FIN RST) packets sent |
| <i>tx-data-pack</i>                | (Optional) data packets sent                  |
| <i>tx-data-bytes</i>               | (Optional) data bytes sent                    |
| <i>tx-reasm-pack</i>               | (Optional) data packets retransmitted         |
| <i>tx-reasm-bytes</i>              | (Optional) data bytes retransmitted           |
| <i>tx-ackonly-pack</i>             | (Optional) ack-only packets sent              |
| <i>tx-winprobe-pack</i>            | (Optional) window probes sent                 |
| <i>tx-winupdate-bytes</i>          | (Optional) window update-only packets sent    |
| <i>tx-encrypt</i>                  | (Optional) Encrypted packets sent             |
| <i>tx-unencrypt</i>                | (Optional) Unencrypted packets sent           |
| <i>tx-md5rst</i>                   | (Optional) No of encrypted RST packets        |
| <i>tx-conn-init</i>                | (Optional) connections initiated              |
| <i>tx-conn-accepted</i>            | (Optional) connections accepted               |

|                                |  |
|--------------------------------|--|
| <i>tx-conn-estd</i>            | (Optional) connections established             |
| <i>closed</i>                  | (Optional) conn. closed (includes drops)       |
| <i>dropped</i>                 | (Optional) connections dropped                 |
| <i>emb-dropped</i>             | (Optional) embryonic connections dropped       |
| <i>tx-rxmt-timeout</i>         | (Optional) total rxmt timeout                  |
| <i>tx-rxmt-timeout-dropped</i> | (Optional) connections dropped in rxmt timeout |
| <i>tx-ka-timeout</i>           | (Optional) keepalive timeouts                  |
| <i>tx-ka-probe</i>             | (Optional) keepalive probes sent               |
| <i>tx-ka-drop</i>              | (Optional) connections dropped in keepalive    |
| <i>gen-seg-timed</i>           | (Optional) segs where we tried to get rtt      |
| <i>gen-rtt-updated</i>         | (Optional) times we succeeded to get rtt       |
| <i>gen-delack</i>              | (Optional) delayed acks sent                   |
| <i>gen-persist-timeout</i>     | (Optional) persist timeouts                    |
| <i>gen-paws-drop</i>           | (Optional) segments dropped due to PAWS        |
| <i>gen-predack</i>             | (Optional) hdr predict ok for acks             |
| <i>gen-preddat</i>             | (Optional) hdr predict ok for data pkts        |
| <i>gen-pcb-cachemiss</i>       | (Optional) PCB cache miss                      |
| <i>gen-cache-drtt</i>          | (Optional) times cached RTT in route updated   |
| <i>gen-cache-drttvar</i>       | (Optional) times cached rttvar updated         |
| <i>gen-cached-ssthresh</i>     | (Optional) times cached ssthresh updated       |
| <i>gen-usedrtt</i>             | (Optional) times RTT initialized from route    |
| <i>gen-usedrttvar</i>          | (Optional) times RTTVAR initialized from rt    |
| <i>gen-usedssthresh</i>        | (Optional) times ssthresh initialized from rt  |
| <i>gen-persistdrop</i>         | (Optional) timeout in persist state            |
| <i>gen-badsyn</i>              | (Optional) bogus SYN, e.g. premature ACK       |
| <i>gen-mturesent</i>           | (Optional) resends due to MTU discovery        |
| <i>gen-list-endrop</i>         | (Optional) listen queue overflows              |
| <i>gen-rpm-bind-synsock</i>    | (Optional) rpm bind in synsock                 |
| <i>gen-rpm-bindsynadd</i>      | (Optional) rpm bind in synadd                  |

|                               |   |
|-------------------------------|---|
| <i>gen-rpm-bindlookup</i>     | (Optional) rpm bind in lookup               |
| <i>gen-rpm-bindsetsock</i>    | (Optional) rpm bind in setsock              |
| <i>gen-rpm-unbind-getpass</i> | (Optional) rpm unbind get pass              |
| <i>gen-rpm-unbinduser1</i>    | (Optional) rpm unbind by user               |
| <i>gen-rpm-unbinduser2</i>    | (Optional) rpm unbind by user1              |
| <i>gen-rpm-unbindrollover</i> | (Optional) rpm unbind during rollover       |
| <i>gen-rpm-unbind-synfree</i> | (Optional) rpm unbind in syn free           |
| <i>gen-rpm-unbind-tpfree</i>  | (Optional) rpm unbind in tp free            |
| <i>syn-sc-added</i>           | (Optional) entry added to syncache          |
| <i>syn-retransmitted</i>      | (Optional) syncache entry was retransmitted |
| <i>syn-dupsyn</i>             | (Optional) duplicate SYN packet             |
| <i>syn-dropped</i>            | (Optional) could not reply to packet        |
| <i>syn-completed</i>          | (Optional) successful extraction of entry   |
| <i>syn-bucket-overflow</i>    | (Optional) syncache per-bucket limit hit    |
| <i>syn-cache-overflow</i>     | (Optional) syncache cache limit hit         |
| <i>syn-sc-reset</i>           | (Optional) RST removed entry from syncache  |
| <i>syn-sc-stale</i>           | (Optional) timed out or listen socket gone  |
| <i>syn-sc-aborted</i>         | (Optional) syncache entry aborted           |
| <i>syn-sc-badack</i>          | (Optional) removed due to bad ACK           |
| <i>syn-sc-unreach</i>         | (Optional) ICMP unreachable received        |
| <i>syn-sc-zonefail</i>        | (Optional) zalloc() failed                  |
| <i>syn-sc-sendcookie</i>      | (Optional) SYN cookie sent                  |
| <i>syn-sc-recvcookie</i>      | (Optional) SYN cookie received              |
| <i>syn-sc-crosshits</i>       | (Optional) crosshits on the SC blocks       |
| <i>syn-sc-supsyncrosshits</i> | (Optional) crosshits dup SYN on SC block    |
| <i>syn-sc-removecrosshits</i> | (Optional) crosshits on SC blocks to remove |
| <i>udp-rx-total</i>           | (Optional) total udp packets                |
| <i>udp-rx-bad-csum</i>        | (Optional) udp checksum error               |
| <i>udp-rx-no-csum</i>         | (Optional) udp no checksum                  |

|                                     |  |
|-------------------------------------|--|
| <i>udp-rx-too-short</i>             | (Optional) udp packets drops               |
| <i>udp-rx-bad-len</i>               | (Optional) udp bad length                  |
| <i>udp-rx-no-port</i>               | (Optional) udp no port                     |
| <i>udp-rx-no-port-bcast</i>         | (Optional) udp no port broadcast           |
| <i>udp-rx-no-port-mcast</i>         | (Optional) udp no port multicast           |
| <i>udp-rx-full-socket-drop</i>      | (Optional) udp dropped full socket         |
| <i>udp-tx-total</i>                 | (Optional) udp total packets               |
| <i>raw-rx-version</i>               | (Optional) raw sockets version             |
| <i>raw-rx-rcvd</i>                  | (Optional) raw sockets connection received |
| <i>raw-rx-no-port</i>               | (Optional) raw socket no port              |
| <i>raw-rx-full-socket-drop</i>      | (Optional) raw socket full sockets drop    |
| <i>raw-tx-sent</i>                  | (Optional) raw socket connection sent      |
| <i>inpcb-tot-alloc</i>              | (Optional) inpcb allocation                |
| <i>inpcb-tot-bind</i>               | (Optional) inpcb bind                      |
| <i>inpcb-tot-laddr</i>              | (Optional) inpcb laddr                     |
| <i>inpcb-tot-connect</i>            | (Optional) inpcb connect                   |
| <i>inpcb-tot-disconnect</i>         | (Optional) inpcb disconnect                |
| <i>inpcb-tot-detach</i>             | (Optional) inpcb detach                    |
| <i>inpcb-tot-detach-noinc</i>       | (Optional) inpcb detaach no increment      |
| <i>inpcb-tot-detach-rort</i>        | (Optional) inpcb detach no return          |
| <i>inpcb-tot-rtfree</i>             | (Optional) inpcb rt free                   |
| <i>inpcb-tot-setsock-addr</i>       | (Optional) inpcb set socket address        |
| <i>inpcb-tot-setpeeraddr</i>        | (Optional) inpcb set peer address          |
| <i>inpcb-tot-notify</i>             | (Optional) inpcb notify                    |
| <i>inpcb-tot-lookup-npacl-deny</i>  | (Optional) inpcb lookup hash npacl deny    |
| <i>inpcb-tot-lookup-npacl-allow</i> | (Optional) inpcb lookup npacl allow        |
| <i>inpcb-tot-inshash-ipv4</i>       | (Optional) inpcb inshash ipv4              |
| <i>inpcb-tot-inshash-ipv6</i>       | (Optional) inpcb inshash ipv6              |
| <i>inpcb-tot-brehash-ipv4</i>       | (Optional) inpcb brehash ipv4              |

|                                      |  |
|--------------------------------------|--|
| <i>inpcb-tot-brehash-ipv6</i>        | (Optional) inpcb brehash ipv6                        |
| <i>inpcb-tot-brehash</i>             | (Optional) inpcb brehash                             |
| <i>inpcb-err-allocnomem</i>          | (Optional) inpcb allocation no memory error          |
| <i>inpcb-err-bindeinavl</i>          | (Optional) inpcb bind inval error                    |
| <i>inpcb-err-eaddrinuse</i>          | (Optional) inpcb eaddr in use error                  |
| <i>inpcb-err-eagain</i>              | (Optional) inpcb eagain error                        |
| <i>inpcb-err-eagain2</i>             | (Optional) inpcb eagain2 error                       |
| <i>inpcb-err-eaddrnotavail</i>       | (Optional) inpcb eaddr not availableerror            |
| <i>inpcb-err-eafnosupport</i>        | (Optional) inpcb eaf no support error                |
| <i>inpcb-err-enomem</i>              | (Optional) inpcb no-memory error                     |
| <i>inpcb-err-ehostunreach</i>        | (Optional) inpcb ehost unreachable error             |
| <i>inpcb-err-laddr-enoio</i>         | (Optional) inpcb laddr enxio error                   |
| <i>inpcb-err-laddr-ehostunreach2</i> | (Optional) inpcb laddr ehost unreachable2 error      |
| <i>inpcb-err-connectladdr</i>        | (Optional) inpcb connect laddr error                 |
| <i>inpcb-err-connect-eaddrinuse</i>  | (Optional) inpcb connect eaddress in use error       |
| <i>inpcb-err-connbind</i>            | (Optional) inpcb connect bind error                  |
| <i>inpcb-err-sockaddrenomem</i>      | (Optional) inpcb socket address no memory error      |
| <i>inpcb-err-sockadreconnreset</i>   | (Optional) inpcb socket address econnect reset error |
| <i>inpcb-err-peeraddr-enomem</i>     | (Optional) inpcb peer address no memory error        |
| <i>inpcb-err-econnrest</i>           | (Optional) inpcb connection rest error               |
| <i>inpcb-err-respond-enobufs</i>     | (Optional) inpcb respond no buffer error             |
| <i>inpcb-err-binshash-enobufs</i>    | (Optional) inpcb binshash no buffer error            |
| <i>in6pcb-tot-setport</i>            | (Optional) in6pcb set port error                     |
| <i>in6pcb-tot-bind</i>               | (Optional) in6pcb bind                               |
| <i>in6pcb-tot-laddr</i>              | (Optional) in6pcb laddr                              |
| <i>in6pcb-tot-connect</i>            | (Optional) in6pcb connect                            |
| <i>in6pcb-tot-disconnect</i>         | (Optional) in6pcb disconnect                         |
| <i>in6pcb-tot-detach</i>             | (Optional) in6pcb detach                             |
| <i>in6pcb-tot-sockaddr</i>           | (Optional) in6pcb socket address                     |

|                                       |  |
|---------------------------------------|--|
| <i>in6pcb-tot-peeraddr</i>            | (Optional) in6pcb peer address                   |
| <i>in6pcb-tot-notify</i>              | (Optional) in6pcb notify                         |
| <i>in6pcb-tot-lookuplocal</i>         | (Optional) in6pcb lookup local                   |
| <i>in6pcb-tot-hashnpacl-deny</i>      | (Optional) in6pcb hash npacl deny                |
| <i>in6pcb-err-setporteagain</i>       | (Optional) in6pcb set port again error           |
| <i>in6pcb-err-setporteagain2</i>      | (Optional) in6pcb set port again2 error          |
| <i>in6pcb-err-seteagain3</i>          | (Optional) in6pcb set port again3 error          |
| <i>in6pcb-bind-eafnosupport</i>       | (Optional) in6pcb bind eaf no support error      |
| <i>in6pcb-err-bindeaddrinuse</i>      | (Optional) in6pcb bind address in use error      |
| <i>in6pcb-err-bindeaddrinuse2</i>     | (Optional) in6pcb bind address in use2 error     |
| <i>in6pcb-err-bindeaddrinuse3</i>     | (Optional) in6pcb bind address in use3 error     |
| <i>in6pcb-err-bindeaddrinuse4</i>     | (Optional) in6pcb bind address in use4 error     |
| <i>in6pcb-err-bindsetport</i>         | (Optional) in6pcb bind setport error             |
| <i>in6pcb-err-bindeagain</i>          | (Optional) in6pcb bind again error               |
| <i>in6pcb-err-laddr-eafnosupport</i>  | (Optional) in6pcb laddr eaf no support error     |
| <i>in6pcb-err-eaddrnotavail</i>       | (Optional) in6pcb address not available error    |
| <i>in6pcb-err-laddr-enomem</i>        | (Optional) in6pcb laddr no memory error          |
| <i>in6pcb-err-laddr-ehostreach</i>    | (Optional) in6pcb laddr host reach error         |
| <i>in6pcb-err-laddr-ehostunreach2</i> | (Optional) in6pcb laddr host reach2 error        |
| <i>in6pcb-err-laddr-ehostunreach3</i> | (Optional) in6pcb laddr host reach3 error        |
| <i>in6pcb-err-laddr-ehostunreach4</i> | (Optional) in6pcb laddr host reach4 error        |
| <i>in6pcb-err-laddr-enxio</i>         | (Optional) in6pcb laddr enxio error              |
| <i>in6pcb-err-connladdr</i>           | (Optional) in6pcb connect laddr error            |
| <i>in6pcb-err-conneaddrinuse</i>      | (Optional) in6pcb connect eaddress in use error  |
| <i>in6pcb-err-connbind</i>            | (Optional) in6pcb connect bind error             |
| <i>in6pcb-err-sockaddr-enomem</i>     | (Optional) in6pcb socket address no memory error |
| <i>in6pcb-err-v4maps-enomem</i>       | (Optional) in6pcb v4maps no memory error         |
| <i>in6pcb-err-setsock-noinp</i>       | (Optional) in6pcb set socket noinp error         |
| <i>in6pcb-err-setpeer-noinp</i>       | (Optional) in6pcb set peer noinp error           |

|                                     |  |
|-------------------------------------|--|
| <i>in6pcb-err-sockaddr-noinp</i>    | (Optional) in6pcb socket address noinp error         |
| <i>in6pcb-err-peeraddr-noinp</i>    | (Optional) in6pcb peer address noinp error           |
| <i>in6pcb-err-notify-einavl</i>     | (Optional) in6pcb notify ingress available error     |
| <i>in6pcb-err-ctloutput-nosoopt</i> | (Optional) in6pcb control output no socket opt error |

**Command Mode**

- /exec



# show sockets tcp keychain binding

```
show sockets tcp keychain binding [ __readonly__ { TABLE_keychain <keychain> <handle> <ref_count>
} ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information          |
| sockets             | Display sockets status and configuration |
| tcp                 | TCP information                          |
| keychain            | Keychain information                     |
| binding             | Binding information regarding RPM        |
| <i>__readonly__</i> | (Optional)                               |
| TABLE_keychain      | (Optional) all sockets tcp keychains     |
| <i>keychain</i>     | (Optional) xml keychain information      |
| <i>handle</i>       | (Optional) xml handle information        |
| <i>ref_count</i>    | (Optional) xml refcount information      |

## Command Mode

- /exec

## show spanning-tree

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] [ __readonly__ TABLE_tree <tree_id>
<tree_tree_type> <tree_protocol> <port_count> <bridge_mac> <bridge_priority> <tree_designated_root>
<tree_designated_root_priority> <stp_active> <root_path_cost> <root_port_if_index> <root_port_priority>
<root_port_number> <topology_change> <topology_change_detected> <topology_change_count>
<topology_change_time_since_last> <tc_initiator_if_index> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> <max_age> <hello_time> <forward_delay> <hold_time> <hello_timer>
<topology_change_timer> <tcn_timer> <aging_timer> <disabled> <blocking> <listening> <learning>
<forwarding> <invalid> TABLE_port <if_index> [ <vpc> ] <port_info_tree_id> <state> <role> <port_priority>
<port_number> <port_protocol> <port_tree_type> <path_cost> <port_designated_root>
<port_designated_root_priority> <designated_cost> <designated_bridge> <designated_bridge_priority>
<designated_port> <tc_acknowledge> <forward_transition_count> <self_looped> <inconsistency> <bpdu_in>
<bpdu_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> [ <boundary>
] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prestd> ] ] } | { show spanning-tree [ vlan <vlan-id> |
bridge-domain <bd-id> ] { <verbosity> | active } + [ __readonly__ TABLE_tree <tree_id> <tree_tree_type>
<tree_protocol> <port_count> <bridge_mac> <bridge_priority> <tree_designated_root>
<tree_designated_root_priority> <stp_active> <root_path_cost> <root_port_if_index> <root_port_priority>
<root_port_number> <topology_change> <topology_change_detected> <topology_change_count>
<topology_change_time_since_last> <tc_initiator_if_index> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> <max_age> <hello_time> <forward_delay> <hold_time> <hello_timer>
<topology_change_timer> <tcn_timer> <aging_timer> <disabled> <blocking> <listening> <learning>
<forwarding> <invalid> TABLE_port <if_index> <port_info_tree_id> <state> <role> <port_priority>
<port_number> <port_protocol> <port_tree_type> <path_cost> <port_designated_root>
<port_designated_root_priority> <designated_cost> <designated_bridge> <designated_bridge_priority>
<designated_port> <tc_acknowledge> <forward_transition_count> <self_looped> <inconsistency> <bpdu_in>
<bpdu_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> [ <boundary>
] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prestd> ] ] }
```

### Syntax Description

|                  |   |
|------------------|---|
| show             | Show running system information                       |
| spanning-tree    | Show spanning tree information                        |
| vlan             | (Optional) VLAN Switch Spanning Trees                 |
| bridge-domain    | (Optional) Bridge-Domain Switch Spanning Trees        |
| <i>vlan-id</i>   | (Optional) vlan range, Example: 1,3-5,7,9-11          |
| <i>bd-id</i>     | (Optional) Bridge-Domain range, Example: 2,4-5,7,9-11 |
| <i>verbosity</i> | verbosity   |
| active           | Report on active interfaces only                      |
| __readonly__     | (Optional) Read Only                                  |

|  |   |
|--|---|
| <i>TABLE_tree</i>                      | (Optional)  |
| <i>tree_id</i>                         | (Optional) Tree Id                                |
| <i>tree_tree_type</i>                  | (Optional) Tree Type                              |
| <i>tree_protocol</i>                   | (Optional) Tree Protocol                          |
| <i>port_count</i>                      | (Optional) Number of Ports in Tree                |
| <i>bridge_mac</i>                      | (Optional) Bridge Mac                             |
| <i>bridge_priority</i>                 | (Optional) Bridge Priority                        |
| <i>tree_designated_root</i>            | (Optional) Designated Root Mac                    |
| <i>tree_designated_root_priority</i>   | (Optional) Designated Root Priority               |
| <i>stp_active</i>                      | (Optional) Spanning Tree State                    |
| <i>root_path_cost</i>                  | (Optional) Root Path Cost                         |
| <i>root_port_if_index</i>              | (Optional) Root Port                              |
| <i>root_port_priority</i>              | (Optional) Root Port Priority                     |
| <i>root_port_number</i>                | (Optional) Root Port Number                       |
| <i>topology_change</i>                 | (Optional) Topology Change flag is set ?          |
| <i>topology_change_detected</i>        | (Optional) Topology Change detected flag is set ? |
| <i>topology_change_count</i>           | (Optional) Topology Change Count                  |
| <i>topology_change_time_since_last</i> | (Optional) Time since last TC                     |
| <i>tc_initiator_if_index</i>           | (Optional) Topology Change initiator port         |
| <i>max_age</i>                         | (Optional) Max Age                                |
| <i>hello_time</i>                      | (Optional) Hello Time                             |
| <i>forward_delay</i>                   | (Optional) Forward delay                          |
| <i>bridge_max_age</i>                  | (Optional) Configured Bridge Max Age              |
| <i>bridge_hello_time</i>               | (Optional) Configured Hello Time                  |
| <i>bridge_forward_delay</i>            | (Optional) Configured Forward Delay               |
| <i>hold_time</i>                       | (Optional) Configured Hold Time                   |
| <i>hello_timer</i>                     | (Optional) Hello Timer Value                      |
| <i>topology_change_timer</i>           | (Optional) Topology Change Timer Value            |
| <i>tcn_timer</i>                       | (Optional) TCN Timer Value                        |

|                                      |  |
|--------------------------------------|--|
| <i>aging_timer</i>                   | (Optional) Ageing Timer Value                        |
| <i>disabled</i>                      | (Optional) Number of ports Disabled                  |
| <i>blocking</i>                      | (Optional) Number of ports Blocking                  |
| <i>listening</i>                     | (Optional) Number of ports Listening                 |
| <i>learning</i>                      | (Optional) Number of ports Learning                  |
| <i>forwarding</i>                    | (Optional) Number of ports Forwarding                |
| <i>invalid</i>                       | (Optional) Number of ports Invalid                   |
| TABLE_port                           | (Optional)   |
| <i>if_index</i>                      | (Optional) Interface                                 |
| <i>vpc</i>                           | (Optional) STP Port memembr of MCT/VPC PO            |
| <i>port_info_tree_id</i>             | (Optional) Tree Id                                   |
| <i>state</i>                         | (Optional) STP Port State                            |
| <i>role</i>                          | (Optional) STP Port Role                             |
| <i>port_priority</i>                 | (Optional) Port priority                             |
| <i>port_number</i>                   | (Optional) Port Number                               |
| <i>port_protocol</i>                 | (Optional) Tree Protocol                             |
| <i>port_tree_type</i>                | (Optional) Tree Type                                 |
| <i>path_cost</i>                     | (Optional) Cost configured on this port              |
| <i>port_designated_root</i>          | (Optional) Designated Root Mac                       |
| <i>port_designated_root_priority</i> | (Optional) Designated Root Priority                  |
| <i>designated_cost</i>               | (Optional) Designated cost                           |
| <i>designated_bridge</i>             | (Optional) Designated bridge mac                     |
| <i>designated_bridge_priority</i>    | (Optional) Designated bridge priority                |
| <i>designated_port</i>               | (Optional) Designated Port Id                        |
| <i>tc_acknowledge</i>                | (Optional) Is topology change acknowledge flag set ? |
| <i>forward_transition_count</i>      | (Optional) Port transitions to Forwarding            |
| <i>self_looped</i>                   | (Optional) Is Port self looped ?                     |
| <i>inconsistency</i>                 | (Optional) PVST+ Inconsistency Error Flags           |
| <i>bp dus_in</i>                     | (Optional) BPDUs received on this stp port           |

|                            |   |
|----------------------------|---|
| <i>bpdu_out</i>            | (Optional) BPDUs send on this stp port              |
| <i>port_fast</i>           | (Optional) Port Fast configured on port             |
| <i>link_type</i>           | (Optional) Link type configured on this port        |
| <i>port_guard</i>          | (Optional) Port Guard mode of port                  |
| <i>bpdu_guard</i>          | (Optional) Bpdu Guard mode configured               |
| <i>bpdu_filter</i>         | (Optional) Bpdu Filter mode configured              |
| <i>oper_portfast</i>       | (Optional) Is portfast enabled ?                    |
| <i>oper_p2p</i>            | (Optional) Is port P2P ?                            |
| <i>oper_loopguard</i>      | (Optional) Is loopguard enabled ?                   |
| <i>oper_bpduguard</i>      | (Optional) Is bpduguard enabled ?                   |
| <i>oper_bpdufilter</i>     | (Optional) Is bpdufilter enabled ?                  |
| <i>int_bpdufilter</i>      | (Optional) Is internal bpdufilter enabled ?         |
| <i>forward_delay_timer</i> | (Optional) Forward Delay timer                      |
| <i>hold_timer</i>          | (Optional) Hold Timer                               |
| <i>message_age</i>         | (Optional) Message age timer                        |
| <i>peer</i>                | (Optional) STP protocol of the peer                 |
| <i>dispute</i>             | (Optional) Is port Disputed ?                       |
| <i>pvstsim_inc_timer</i>   | (Optional) PVST Simulation Inconsistency Hold Timer |
| <i>boundary</i>            | (Optional) Is port boundary ?                       |
| <i>prestd</i>              | (Optional) Is port Pre STD MST ?                    |
| <i>simulate_pvst</i>       | (Optional) Is port is pvst simulate mode ?          |
| <i>oper_networkport</i>    | (Optional) Is network port enabled ?                |
| <i>simulate_pvst_cfg</i>   | (Optional) PVST Simulation configured on port       |

### Command Mode

- /exec

## show spanning-tree blockedports

```
{ show spanning-tree [ vlan <vlan-id> ] blockedports [ __readonly__ [ TABLE_tree [ <port_info_tree_id> ]
[ TABLE_port [ <if_index> ] ] ] [ <tree_type> ] [ <num_ports> ] ] }
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information              |
| spanning-tree            | Show spanning tree information               |
| vlan                     | (Optional) VLAN Switch Spanning Trees        |
| __readonly__             | (Optional)                                   |
| TABLE_tree               | (Optional)                                   |
| <i>port_info_tree_id</i> | (Optional) Tree name                         |
| TABLE_port               | (Optional)                                   |
| <i>if_index</i>          | (Optional) Port name                         |
| <i>tree_type</i>         | (Optional) Tree Type                         |
| <i>num_ports</i>         | (Optional) Number of Ports                   |
| <i>vlan-id</i>           | (Optional) vlan range, Example: 1,3-5,7,9-11 |
| blockedports             | Show blocked ports                           |

### Command Mode

- /exec

## show spanning-tree bridge

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] bridge [ priority [ system-id ] ][ __readonly__
{ TABLE_tree <tree_id> <tree_tree_type> <tree_protocol> <bridge_mac> <bridge_priority>
<bridge_forward_delay> <bridge_max_age> <bridge_hello_time> } ] } | { show spanning-tree [ vlan <vlan-id>
| bridge-domain <bd-id> ] bridge [ { detail | brief } ][ __readonly__ { TABLE_tree <tree_id> <tree_tree_type>
<tree_protocol> <bridge_mac> <bridge_priority> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> } ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] bridge [ { address
| forward-time | hello-time | id | max-age | protocol } ][ __readonly__ { TABLE_tree <tree_id> <tree_tree_type>
<tree_protocol> <bridge_mac> <bridge_priority> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> } ] }
```

### Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                                 |
| spanning-tree  | Show spanning tree information                                  |
| vlan           | (Optional) VLAN Switch Spanning Trees                           |
| bridge-domain  | (Optional) Bridge-Domain Switch Spanning Trees                  |
| <i>vlan-id</i> | (Optional) vlan range, Example: 1,3-5,7,9-11                    |
| <i>bd-id</i>   | (Optional) Bridge-Domain range, Example: 2,4-5,7,9-11           |
| bridge         | Status and configuration of this bridge                         |
| address        | (Optional) Mac address of this bridge                           |
| forward-time   | (Optional) Forward delay interval                               |
| hello-time     | (Optional) Hello time   |
| id             | (Optional) Spanning tree bridge identifier                      |
| max-age        | (Optional) Max age  |
| protocol       | (Optional) Spanning tree protocol                               |
| brief          | (Optional) Brief summary of the status and configuration output |
| detail         | (Optional) Detailed of the status and configuration             |
| priority       | (Optional) Bridge priority of this bridge                       |
| system-id      | (Optional) Spanning tree priority with system id extension      |
| __readonly__   | (Optional) Read Only  |
| TABLE_tree     | (Optional)  |
| <i>tree_id</i> | (Optional) Tree Id  |

|                             |                                      |
|-----------------------------|--------------------------------------|
| <i>tree_tree_type</i>       | (Optional) Tree Type                 |
| <i>tree_protocol</i>        | (Optional) Tree Protocol             |
| <i>bridge_mac</i>           | (Optional) Bridge Mac                |
| <i>bridge_priority</i>      | (Optional) Bridge Priority           |
| <i>bridge_forward_delay</i> | (Optional) Configured Forward Delay  |
| <i>bridge_max_age</i>       | (Optional) Configured Bridge Max Age |
| <i>bridge_hello_time</i>    | (Optional) Configured Hello Time     |

**Command Mode**

- /exec



## show spanning-tree inconsistentports

```
{ show spanning-tree [ vlan <vlan-id> ] inconsistentports [ __readonly__ [ TABLE_tree <port_info_tree_id>
<if_index> <inconsistency> ] [ <tree_type> ] [ <num_ports> ] ] }
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information              |
| spanning-tree            | Show spanning tree information               |
| vlan                     | (Optional) VLAN Switch Spanning Trees        |
| <i>vlan-id</i>           | (Optional) vlan range, Example: 1,3-5,7,9-11 |
| inconsistentports        | Show inconsistent ports                      |
| <i>__readonly__</i>      | (Optional)                                   |
| TABLE_tree               | (Optional)                                   |
| <i>port_info_tree_id</i> | (Optional) Tree name                         |
| <i>if_index</i>          | (Optional) Port name                         |
| <i>inconsistency</i>     | (Optional) Inconsistency type                |
| <i>tree_type</i>         | (Optional) Tree Type                         |
| <i>num_ports</i>         | (Optional) Number of Ports                   |

### Command Mode

- /exec

## show spanning-tree interface

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] interface <interface-id> [ __readonly__ {
TABLE_port <if_index> [ <vpc> ] <port_info_tree_id> <state> <role> <port_priority> <port_number>
<port_protocol> <port_tree_type> <path_cost> <port_designated_root> <port_designated_root_priority>
<designated_cost> <designated_bridge> <designated_bridge_priority> <designated_port> <tc_acknowledge>
<forward_transition_count> <self_looped> <inconsistency> <bpdu_in> <bpdu_out> <port_fast> <link_type>
<port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard>
<oper_bpdufilter> <int_bpdufilter> <oper_networkport> <forward_delay_timer> <hold_timer> <message_age>
<peer> <dispute> <pvstsim_inc_timer> [ <boundary> ] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prestd>
] ] } | { show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] interface <interface-id> { <verbosity>
| active } + [ __readonly__ { TABLE_port <if_index> [ <vpc> ] <port_info_tree_id> <state> <role>
<port_priority> <port_number> <port_protocol> <port_tree_type> <path_cost> <port_designated_root>
<port_designated_root_priority> <designated_cost> <designated_bridge> <designated_bridge_priority>
<designated_port> <tc_acknowledge> <forward_transition_count> <self_looped> <inconsistency> <bpdu_in>
<bpdu_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> <oper_networkport>
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> [ <boundary>
] [ <simulate_pvst_cfg> ] [ <simulate_pvst> ] [ <prestd> ] ] }
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information                       |
| spanning-tree            | Show spanning tree information                        |
| vlan                     | (Optional) VLAN Switch Spanning Trees                 |
| bridge-domain            | (Optional) Bridge-Domain Switch Spanning Trees        |
| <i>vlan-id</i>           | (Optional) vlan range, Example: 1,3-5,7,9-11          |
| <i>bd-id</i>             | (Optional) Bridge-Domain range, Example: 2,4-5,7,9-11 |
| interface                | Spanning Tree interface status and configuration      |
| <i>interface-id</i>      |   |
| <i>verbosity</i>         | verbosity   |
| active                   | Report on active instances only                       |
| <u>__readonly__</u>      | (Optional) Read Only                                  |
| TABLE_port               | (Optional)  |
| <i>if_index</i>          | (Optional) Interface                                  |
| <i>vpc</i>               | (Optional) STP Port memembr of MCT/VPC PO             |
| <i>port_info_tree_id</i> | (Optional) Tree Id                                    |
| <i>state</i>             | (Optional) STP Port State                             |

|                                      |  |
|--------------------------------------|--|
| <i>role</i>                          | (Optional) STP Port Role                             |
| <i>port_priority</i>                 | (Optional) Port priority                             |
| <i>port_number</i>                   | (Optional) Port Number                               |
| <i>port_protocol</i>                 | (Optional) Tree Protocol                             |
| <i>port_tree_type</i>                | (Optional) Tree Type                                 |
| <i>path_cost</i>                     | (Optional) Cost configured on this port              |
| <i>port_designated_root</i>          | (Optional) Designated Root Mac                       |
| <i>port_designated_root_priority</i> | (Optional) Designated Root Priority                  |
| <i>designated_cost</i>               | (Optional) Designated cost                           |
| <i>designated_bridge</i>             | (Optional) Designated bridge mac                     |
| <i>designated_bridge_priority</i>    | (Optional) Designated bridge priority                |
| <i>designated_port</i>               | (Optional) Designated Port Id                        |
| <i>tc_acknowledge</i>                | (Optional) Is topology change acknowledge flag set ? |
| <i>forward_transition_count</i>      | (Optional) Port transitions to Forwarding            |
| <i>self_looped</i>                   | (Optional) Is Port self looped ?                     |
| <i>inconsistency</i>                 | (Optional) PVST+ Inconsistency Error Flags           |
| <i>bpdu_in</i>                       | (Optional) BPDUs received on this stp port           |
| <i>bpdu_out</i>                      | (Optional) BPDUs send on this stp port               |
| <i>port_fast</i>                     | (Optional) Port Fast configured on port              |
| <i>link_type</i>                     | (Optional) Link type configured on this port         |
| <i>port_guard</i>                    | (Optional) Port Guard mode of port                   |
| <i>bpdu_guard</i>                    | (Optional) Bpdu Guard mode configured                |
| <i>bpdu_filter</i>                   | (Optional) Bpdu Filter mode configured               |
| <i>oper_portfast</i>                 | (Optional) Is portfast enabled ?                     |
| <i>oper_p2p</i>                      | (Optional) Is port P2P ?                             |
| <i>oper_loopguard</i>                | (Optional) Is loopguard enabled ?                    |
| <i>oper_bpduguard</i>                | (Optional) Is bpduguard enabled ?                    |
| <i>oper_bpdufilter</i>               | (Optional) Is bpdufilter enabled ?                   |
| <i>int_bpdufilter</i>                | (Optional) Is internal bpdufilter enabled ?          |

|                            |   |
|----------------------------|---|
| <i>forward_delay_timer</i> | (Optional) Forward Delay timer                      |
| <i>hold_timer</i>          | (Optional) Hold Timer                               |
| <i>message_age</i>         | (Optional) Message age timer                        |
| <i>peer</i>                | (Optional) STP protocol of the peer                 |
| <i>dispute</i>             | (Optional) Is port Disputed ?                       |
| <i>pvstsim_inc_timer</i>   | (Optional) PVST Simulation Inconsistency Hold Timer |
| <i>boundary</i>            | (Optional) Is port boundary ?                       |
| <i>prestd</i>              | (Optional) Is port Pre STD MST ?                    |
| <i>simulate_pvst</i>       | (Optional) Is port is pvst simulate mode ?          |
| <i>oper_networkport</i>    | (Optional) Is network port enabled ?                |
| <i>simulate_pvst_cfg</i>   | (Optional) PVST Simulation configured on port       |

**Command Mode**

- /exec

# show spanning-tree interface

```
{ show spanning-tree [ vlan <vlan-id> ] interface <interface-id> { cost | inconsistency | edge | priority | rootcost | state } [ __readonly__ [ TABLE_vlan_interface_info <tree_name> [ <cost> ] [ <edge> ] [ <inconsistency> ] [ <priority> ] [ <rootcost> ] [ <state> ] ] ] }
```

## Syntax Description

|                           |  |
|---------------------------|--|
| show                      | Show running system information                  |
| spanning-tree             | Show spanning tree information                   |
| vlan                      | (Optional) VLAN Switch Spanning Trees            |
| <i>vlan-id</i>            | (Optional) vlan range, Example: 1,3-5,7,9-11     |
| interface                 | Spanning Tree interface status and configuration |
| <i>interface-id</i>       |  |
| cost                      | Port path cost                                   |
| inconsistency             | Port inconsistency state                         |
| edge                      | Edge Port configuration                          |
| priority                  | Port priority                                    |
| rootcost                  | Path cost to root                                |
| state                     | Port spanning tree state                         |
| <i>__readonly__</i>       | (Optional)                                       |
| TABLE_vlan_interface_info | (Optional)                                       |
| <i>tree_name</i>          | (Optional) Spanning tree name                    |
| <i>cost</i>               | (Optional) Path cost                             |
| <i>edge</i>               | (Optional) Portfast enabled or not               |
| <i>inconsistency</i>      | (Optional) Port inconsistency                    |
| <i>priority</i>           | (Optional) Port Priority                         |
| <i>rootcost</i>           | (Optional) Designated Cost                       |
| <i>state</i>              | (Optional) Port state                            |

## Command Mode

- /exec

## show spanning-tree issu-impact

```
show spanning-tree issu-impact [ __readonly__ [ TABLE_topology <tc_detected> <tc_name> <no_of_tc>
<time> <tc_string> ] [ TABLE_BA_ports <port_name> ] [ <criteria1> ] [ <criteria2> ] [
TABLE_non_edge_ports <port> <vlan> <role> <sts> <tree> <instance> ] [ <criteria3> ] ]
```

### Syntax Description

|                             |                                      |
|-----------------------------|--------------------------------------|
| show                        | Show running system information      |
| spanning-tree               | Show spanning tree information       |
| issu-impact                 | Show whether STP meets ISSU criteria |
| <i>__readonly__</i>         | (Optional)                           |
| <i>TABLE_topology</i>       | (Optional)                           |
| <i>tc_detected</i>          | (Optional)                           |
| <i>tc_name</i>              | (Optional)                           |
| <i>no_of_tc</i>             | (Optional)                           |
| <i>time</i>                 | (Optional)                           |
| <i>tc_string</i>            | (Optional)                           |
| <i>TABLE_BA_ports</i>       | (Optional)                           |
| <i>port_name</i>            | (Optional)                           |
| <i>TABLE_non_edge_ports</i> | (Optional)                           |
| <i>port</i>                 | (Optional)                           |
| <i>vlan</i>                 | (Optional)                           |
| <i>role</i>                 | (Optional)                           |
| <i>sts</i>                  | (Optional)                           |
| <i>tree</i>                 | (Optional)                           |
| <i>instance</i>             | (Optional)                           |
| <i>criteria1</i>            | (Optional)                           |
| <i>criteria2</i>            | (Optional)                           |
| <i>criteria3</i>            | (Optional)                           |

### Command Mode

- /exec

## show spanning-tree mst

```
{ show spanning-tree mst [ <mst-id> ] [ __readonly__ TABLE_tree <tree_id> <tree_tree_type> <tree_protocol>
<port_count> <bridge_mac> <bridge_priority> <tree_designated_root> <tree_designated_root_priority>
<stp_active> <root_path_cost> <root_port_if_index> <root_port_priority> <root_port_number>
<topology_change> <topology_change_detected> <topology_change_count>
<topology_change_time_since_last> <tc_initiator_if_index> <bridge_forward_delay> <bridge_max_age>
<bridge_hello_time> <max_age> <hello_time> <forward_delay> <hold_time> <hello_timer>
<topology_change_timer> <tcn_timer> <aging_timer> <disabled> <blocking> <listening> <learning>
<forwarding> <invalid> <ist-master-id-mac> <ist-master-prio> <ist-path-cost> <remaining-hops> <max-hops>
<txholdcount> <tree-vlan-map> TABLE_port <if_index> <port_info_tree_id> <state> <role> <port_priority>
<port_number> <port_protocol> <port_tree_type> <path_cost> <port_designated_root>
<port_designated_root_priority> <designated_cost> <designated_bridge> <designated_bridge_priority>
<designated_port> <tc_acknowledge> <forward_transition_count> <self_looped> <inconsistency> <bpdu_in>
<bpdu_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p>
<oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ]
<forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> <pvstsim_inc_timer> <boundary>
[ <simulate_pvst_cfg> ] <simulate_pvst> <prest> [ <designated_ist_master> ] [
<designated_ist_master_priority> ] [ <designated_ist_cost> ] [ <vlan-map> ] ] } { show spanning-tree mst
[ <mst-id> ] detail [ __readonly__ TABLE_tree <tree_id> <tree_tree_type> <tree_protocol> <port_count>
<bridge_mac> <bridge_priority> <tree_designated_root> <tree_designated_root_priority> <stp_active>
<root_path_cost> <root_port_if_index> <root_port_priority> <root_port_number> <topology_change>
<topology_change_detected> <topology_change_count> <topology_change_time_since_last>
<tc_initiator_if_index> <bridge_forward_delay> <bridge_max_age> <bridge_hello_time> <max_age>
<hello_time> <forward_delay> <hold_time> <hello_timer> <topology_change_timer> <tcn_timer>
<aging_timer> <disabled> <blocking> <listening> <learning> <forwarding> <invalid> <ist-master-id-mac>
<ist-master-prio> <ist-path-cost> <remaining-hops> <max-hops> <txholdcount> <tree-vlan-map> TABLE_port
<if_index> <port_info_tree_id> <state> <role> <port_priority> <port_number> <port_protocol>
<port_tree_type> <path_cost> <port_designated_root> <port_designated_root_priority> <designated_cost>
<designated_bridge> <designated_bridge_priority> <designated_port> <tc_acknowledge>
<forward_transition_count> <self_looped> <inconsistency> <bpdu_in> <bpdu_out> <port_fast> <link_type>
<port_guard> <bpdu_guard> <bpdu_filter> <oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard>
<oper_bpdufilter> <int_bpdufilter> [ <oper_networkport> ] <forward_delay_timer> <hold_timer>
<message_age> <peer> <dispute> <pvstsim_inc_timer> <boundary> [ <simulate_pvst_cfg> ] <simulate_pvst>
<prest> [ <designated_ist_master> ] [ <designated_ist_master_priority> ] [ <designated_ist_cost> ] [
<vlan-map> ] ] }
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                   |
| spanning-tree       | Show spanning tree information                    |
| mst                 | Multiple spanning trees                           |
| <i>mst-id</i>       | (Optional) MST instance range, example: 0-3,5,7-9 |
| detail              | Detailed information                              |
| <u>__readonly__</u> | (Optional) Read Only                              |
| TABLE_tree          | (Optional)  |

|  |   |
|--|---|
| <i>tree_id</i>                         | (Optional) Tree Id                                |
| <i>tree_tree_type</i>                  | (Optional) Tree Type                              |
| <i>tree_protocol</i>                   | (Optional) Tree Protocol                          |
| <i>port_count</i>                      | (Optional) Number of Ports in Tree                |
| <i>bridge_mac</i>                      | (Optional) Bridge Mac                             |
| <i>bridge_priority</i>                 | (Optional) Bridge Priority                        |
| <i>tree_designated_root</i>            | (Optional) Designated Root Mac                    |
| <i>tree_designated_root_priority</i>   | (Optional) Designated Root Priority               |
| <i>stp_active</i>                      | (Optional) Spanning Tree State                    |
| <i>root_path_cost</i>                  | (Optional) Root Path Cost                         |
| <i>root_port_if_index</i>              | (Optional) Root Port                              |
| <i>root_port_priority</i>              | (Optional) Root Port Priority                     |
| <i>root_port_number</i>                | (Optional) Root Port Number                       |
| <i>topology_change</i>                 | (Optional) Topology Change flag is set ?          |
| <i>topology_change_detected</i>        | (Optional) Topology Change detected flag is set ? |
| <i>topology_change_count</i>           | (Optional) Topology Change Count                  |
| <i>topology_change_time_since_last</i> | (Optional) Time since last TC                     |
| <i>tc_initiator_if_index</i>           | (Optional) Topology Change initiator port         |
| <i>max_age</i>                         | (Optional) Max Age                                |
| <i>hello_time</i>                      | (Optional) Hello Time                             |
| <i>forward_delay</i>                   | (Optional) Forward delay                          |
| <i>bridge_max_age</i>                  | (Optional) Configured Bridge Max Age              |
| <i>bridge_hello_time</i>               | (Optional) Configured Hello Time                  |
| <i>bridge_forward_delay</i>            | (Optional) Configured Forward Delay               |
| <i>hold_time</i>                       | (Optional) Configured Hold Time                   |
| <i>hello_timer</i>                     | (Optional) Hello Timer Value                      |
| <i>topology_change_timer</i>           | (Optional) Topology Change Timer Value            |
| <i>tcn_timer</i>                       | (Optional) TCN Timer Value                        |
| <i>aging_timer</i>                     | (Optional) Ageing Timer Value                     |



|                                      |   |
|--------------------------------------|---|
| <i>disabled</i>                      | (Optional) Number of ports Disabled       |
| <i>blocking</i>                      | (Optional) Number of ports Blocking       |
| <i>listening</i>                     | (Optional) Number of ports Listening      |
| <i>learning</i>                      | (Optional) Number of ports Learning       |
| <i>forwarding</i>                    | (Optional) Number of ports Forwarding     |
| <i>invalid</i>                       | (Optional) Number of ports Invalid        |
| <i>ist-master-id-mac</i>             | (Optional) IST Master ID MAC address      |
| <i>ist-master-prio</i>               | (Optional) IST Master ID priority         |
| <i>ist-path-cost</i>                 | (Optional) IST path cost                  |
| <i>remaining-hops</i>                | (Optional) Remaining hops                 |
| <i>max-hops</i>                      | (Optional) Max Hops                       |
| <i>txholdcount</i>                   | (Optional) TX Hold count                  |
| <i>tree-vlan-map</i>                 | (Optional) Bitmap of vlans mapped to tree |
| TABLE_port                           | (Optional)                                |
| <i>if_index</i>                      | (Optional) Interface                      |
| <i>state</i>                         | (Optional) STP Port State                 |
| <i>role</i>                          | (Optional) STP Port Role                  |
| <i>port_priority</i>                 | (Optional) Port priority                  |
| <i>port_number</i>                   | (Optional) Port Number                    |
| <i>port_info_tree_id</i>             | (Optional) Tree Id                        |
| <i>port_tree_type</i>                | (Optional) Tree Type                      |
| <i>port_protocol</i>                 | (Optional) Tree Protocol                  |
| <i>path_cost</i>                     | (Optional) Cost configured on this port   |
| <i>port_designated_root</i>          | (Optional) Designated Root Mac            |
| <i>port_designated_root_priority</i> | (Optional) Designated Root Priority       |
| <i>designated_cost</i>               | (Optional) Designated cost                |
| <i>designated_bridge</i>             | (Optional) Designated bridge mac          |
| <i>designated_bridge_priority</i>    | (Optional) Designated bridge priority     |
| <i>designated_port</i>               | (Optional) Designated Port Id             |

|                                       |  |
|---------------------------------------|--|
| <i>tc_acknowledge</i>                 | (Optional) Is topology change acknowledge flag set ? |
| <i>forward_transition_count</i>       | (Optional) Port transitions to Forwarding            |
| <i>self_looped</i>                    | (Optional) Is Port self looped ?                     |
| <i>inconsistency</i>                  | (Optional) PVST+ Inconsistency Error Flags           |
| <i>bpdu_in</i>                        | (Optional) BPDUs received on this stp port           |
| <i>bpdu_out</i>                       | (Optional) BPDUs send on this stp port               |
| <i>port_fast</i>                      | (Optional) Port Fast configured on port              |
| <i>link_type</i>                      | (Optional) Link type configured on this port         |
| <i>port_guard</i>                     | (Optional) Port Guard mode of port                   |
| <i>bpdu_guard</i>                     | (Optional) Bpdu Guard mode configured                |
| <i>bpdu_filter</i>                    | (Optional) Bpdu Filter mode configured               |
| <i>oper_portfast</i>                  | (Optional) Is portfast enabled ?                     |
| <i>oper_p2p</i>                       | (Optional) Is port P2P ?                             |
| <i>oper_loopguard</i>                 | (Optional) Is loopguard enabled ?                    |
| <i>oper_bpduguard</i>                 | (Optional) Is bpduguard enabled ?                    |
| <i>oper_bpdufilter</i>                | (Optional) Is bpdufilter enabled ?                   |
| <i>int_bpdufilter</i>                 | (Optional) Is internal bpdufilter enabled ?          |
| <i>forward_delay_timer</i>            | (Optional) Forward Delay timer                       |
| <i>hold_timer</i>                     | (Optional) Hold Timer                                |
| <i>message_age</i>                    | (Optional) Message age timer                         |
| <i>peer</i>                           | (Optional) STP protocol of the peer                  |
| <i>boundary</i>                       | (Optional) Is port boundary ?                        |
| <i>simulate_pvst</i>                  | (Optional) Is port is pvst simulate mode ?           |
| <i>dispute</i>                        | (Optional) Is port Disputed ?                        |
| <i>pvstsim_inc_timer</i>              | (Optional) PVST Simulation Inconsistency Hold Timer  |
| <i>prestd</i>                         | (Optional) Is port Pre STD MST ?                     |
| <i>designated_ist_master</i>          | (Optional) Ist master mac                            |
| <i>designated_ist_master_priority</i> | (Optional) Ist master priority                       |
| <i>designated_ist_cost</i>            | (Optional) Ist master path cost                      |

|                          |   |
|--------------------------|---|
| <i>vlan-map</i>          | (Optional) Bitmap of vlans mapped to port     |
| <i>oper_networkport</i>  | (Optional) Is network port enabled ?          |
| <i>simulate_pvst_cfg</i> | (Optional) PVST Simulation configured on port |

**Command Mode**

- /exec

## show spanning-tree mst configuration

```
{ show spanning-tree mst configuration [ __readonly__ <stp-mode> <name> <rev-id> {
TABLE_instance_to_vlan_map <mst_id> <vlan_bit_map> } [ <pvlan-sync> ] ] }
```

### Syntax Description

|                            |  |
|----------------------------|--|
| show                       | Show running system information          |
| spanning-tree              | Show spanning tree information           |
| mst                        | Multiple spanning trees                  |
| configuration              | MST current region configuration         |
| <i>__readonly__</i>        | (Optional) Read Only                     |
| <i>stp-mode</i>            | (Optional) Spanning Tree operating mode  |
| <i>name</i>                | (Optional) Configuration name            |
| <i>rev-id</i>              | (Optional) Configuration revision number |
| TABLE_instance_to_vlan_map | (Optional) Instance to vlan mapping Info |
| <i>mst_id</i>              | (Optional) MST Instance ID               |
| <i>vlan_bit_map</i>        | (Optional) VLAN Bitmap                   |
| <i>pvlan-sync</i>          | (Optional) pvlan synchronization         |

### Command Mode

- /exec

## show spanning-tree mst configuration digest

```
{ show spanning-tree mst configuration digest [ __readonly__ <stp-mode> <name> <rev-id> <digest>
<prestd-digest> [ <pvlan-sync> ] ] }
```

### Syntax Description

|                      |  |
|----------------------|--|
| show                 | Show running system information                    |
| spanning-tree        | Show spanning tree information                     |
| mst                  | Multiple spanning trees                            |
| configuration        | MST current region configuration                   |
| digest               | Display MST configuration digest                   |
| <i>__readonly__</i>  | (Optional) Read Only                               |
| <i>stp-mode</i>      | (Optional) Spanning Tree operating mode            |
| <i>name</i>          | (Optional) Configuration name                      |
| <i>rev-id</i>        | (Optional) Configuration revision number           |
| <i>digest</i>        | (Optional) MST region configuration digest         |
| <i>prestd-digest</i> | (Optional) MST region configuration pre-std digest |
| <i>pvlan-sync</i>    | (Optional) pvlan synchronization                   |

### Command Mode

- /exec

## show spanning-tree mst interface

```
{ show spanning-tree mst [ <mst-id> ] interface <interface-id> [ __readonly__ TABLE_port <if_index>
<port_info_tree_id> <state> <role> <port_priority> <port_number> <port_protocol> <port_tree_type>
<path_cost> <port_designated_root> <port_designated_root_priority> <designated_cost> <designated_bridge>
<designated_bridge_priority> <designated_port> <tc_acknowledge> <forward_transition_count> <self_looped>
<inconsistency> <bpdus_in> <bpdus_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter>
<oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [
<oper_networkport> ] <forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> [
<pvstsim_inc_timer> ] <boundary> [ <simulate_pvst_cfg> ] <simulate_pvst> <prestd> [
<designated_ist_master> ] [ <designated_ist_master_priority> ] [ <designated_ist_cost> ] [ <vlan-map> ] ]
} | { show spanning-tree mst [ <mst-id> ] interface <interface-id> detail [ __readonly__ TABLE_port <if_index>
<port_info_tree_id> <state> <role> <port_priority> <port_number> <port_protocol> <port_tree_type>
<path_cost> <port_designated_root> <port_designated_root_priority> <designated_cost> <designated_bridge>
<designated_bridge_priority> <designated_port> <tc_acknowledge> <forward_transition_count> <self_looped>
<inconsistency> <bpdus_in> <bpdus_out> <port_fast> <link_type> <port_guard> <bpdu_guard> <bpdu_filter>
<oper_portfast> <oper_p2p> <oper_loopguard> <oper_bpduguard> <oper_bpdufilter> <int_bpdufilter> [
<oper_networkport> ] <forward_delay_timer> <hold_timer> <message_age> <peer> <dispute> [
<pvstsim_inc_timer> ] <boundary> [ <simulate_pvst_cfg> ] <simulate_pvst> <prestd> [
<designated_ist_master> ] [ <designated_ist_master_priority> ] [ <designated_ist_cost> ] [ <vlan-map> ] ]
}
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information                   |
| spanning-tree            | Show spanning tree information                    |
| mst                      | Multiple spanning trees                           |
| <i>mst-id</i>            | (Optional) MST instance range, example: 0-3,5,7-9 |
| interface                | Spanning Tree interface status and configuration  |
| <i>interface-id</i>      | Specify an interface as a target for the command  |
| detail                   | Detailed information                              |
| __readonly__             | (Optional) Read Only                              |
| TABLE_port               | (Optional)  |
| <i>if_index</i>          | (Optional) Interface                              |
| <i>port_info_tree_id</i> | (Optional) Tree Id                                |
| <i>state</i>             | (Optional) STP Port State                         |
| <i>role</i>              | (Optional) STP Port Role                          |
| <i>port_priority</i>     | (Optional) Port priority                          |
| <i>port_number</i>       | (Optional) Port Number                            |

|                                      |  |
|--------------------------------------|--|
| <i>port_tree_type</i>                | (Optional) Tree Type                                 |
| <i>port_protocol</i>                 | (Optional) Tree Protocol                             |
| <i>path_cost</i>                     | (Optional) Cost configured on this port              |
| <i>port_designated_root</i>          | (Optional) Designated Root Mac                       |
| <i>port_designated_root_priority</i> | (Optional) Designated Root Priority                  |
| <i>designated_cost</i>               | (Optional) Designated cost                           |
| <i>designated_bridge</i>             | (Optional) Designated bridge mac                     |
| <i>designated_bridge_priority</i>    | (Optional) Designated bridge priority                |
| <i>designated_port</i>               | (Optional) Designated Port Id                        |
| <i>tc_acknowledge</i>                | (Optional) Is topology change acknowledge flag set ? |
| <i>forward_transition_count</i>      | (Optional) Port transitions to Forwarding            |
| <i>self_looped</i>                   | (Optional) Is Port self looped ?                     |
| <i>inconsistency</i>                 | (Optional) PVST+ Inconsistency Error Flags           |
| <i>bpdu_in</i>                       | (Optional) BPDUs received on this stp port           |
| <i>bpdu_out</i>                      | (Optional) BPDUs send on this stp port               |
| <i>port_fast</i>                     | (Optional) Port Fast configured on port              |
| <i>link_type</i>                     | (Optional) Link type configured on this port         |
| <i>port_guard</i>                    | (Optional) Port Guard mode of port                   |
| <i>bpdu_guard</i>                    | (Optional) Bpdu Guard mode configured                |
| <i>bpdu_filter</i>                   | (Optional) Bpdu Filter mode configured               |
| <i>oper_portfast</i>                 | (Optional) Is portfast enabled ?                     |
| <i>oper_p2p</i>                      | (Optional) Is port P2P ?                             |
| <i>oper_loopguard</i>                | (Optional) Is loopguard enabled ?                    |
| <i>oper_bpduguard</i>                | (Optional) Is bpduguard enabled ?                    |
| <i>oper_bpdufilter</i>               | (Optional) Is bpdufilter enabled ?                   |
| <i>int_bpdufilter</i>                | (Optional) Is internal bpdufilter enabled ?          |
| <i>forward_delay_timer</i>           | (Optional) Forward Delay timer                       |
| <i>hold_timer</i>                    | (Optional) Hold Timer                                |
| <i>message_age</i>                   | (Optional) Message age timer                         |

|                                       |   |
|---------------------------------------|---|
| <i>peer</i>                           | (Optional) STP protocol of the peer                 |
| <i>boundary</i>                       | (Optional) Is port boundary ?                       |
| <i>simulate_pvst</i>                  | (Optional) Is port is pvst simulate mode ?          |
| <i>dispute</i>                        | (Optional) Is port Disputed ?                       |
| <i>prestd</i>                         | (Optional) Is port Pre STD MST ?                    |
| <i>designated_ist_master</i>          | (Optional) Ist master mac                           |
| <i>designated_ist_master_priority</i> | (Optional) Ist master priority                      |
| <i>designated_ist_cost</i>            | (Optional) Ist master path cost                     |
| <i>vlan-map</i>                       | (Optional) Bitmap of vlans mapped to port           |
| <i>oper_networkport</i>               | (Optional) Is network port enabled ?                |
| <i>pvstsim_inc_timer</i>              | (Optional) PVST Simulation Inconsistency Hold Timer |
| <i>simulate_pvst_cfg</i>              | (Optional) PVST Simulation configured on port       |

**Command Mode**

- /exec



# show spanning-tree pathcost method

```
{ show spanning-tree pathcost method [ __readonly__ <stp-pathcost-method> [ <stp-operpathcost-method> ] ] }
```

## Syntax Description

|                                |                                     |
|--------------------------------|-------------------------------------|
| show                           | Show running system information     |
| spanning-tree                  | Show spanning tree information      |
| pathcost                       | Show Spanning pathcost options      |
| method                         | Default pathcost calculation method |
| <i>__readonly__</i>            | (Optional)                          |
| <i>stp-pathcost-method</i>     | (Optional) STP Pathcost Method      |
| <i>stp-operpathcost-method</i> | (Optional) STP Pathcost Method      |

## Command Mode

- /exec

## show spanning-tree root

```
{ show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] root [ priority [ system-id ] ] [ __readonly__
TABLE_tree <tree_id> <tree_tree_type> <tree_protocol> <tree_designated_root>
<tree_designated_root_priority> <root_path_cost> <root_port_if_index> <root_port_priority>
<root_port_number> <max_age> <hello_time> <forward_delay> ] } | { show spanning-tree [ vlan <vlan-id>
| bridge-domain <bd-id> ] root [ { address | cost | forward-time | hello-time | id | max-age | port } ] [
__readonly__ TABLE_tree <tree_id> <tree_tree_type> <tree_protocol> <tree_designated_root>
<tree_designated_root_priority> <root_path_cost> <root_port_if_index> <root_port_priority>
<root_port_number> <max_age> <hello_time> <forward_delay> ] } | { show spanning-tree [ vlan <vlan-id>
| bridge-domain <bd-id> ] root [ { detail | brief } ] [ __readonly__ TABLE_tree <tree_id> <tree_tree_type>
<tree_protocol> <tree_designated_root> <tree_designated_root_priority> <root_path_cost>
<root_port_if_index> <root_port_priority> <root_port_number> <max_age> <hello_time> <forward_delay>
] }
```

### Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                            |
| spanning-tree  | Show spanning tree information                             |
| vlan           | (Optional) VLAN Switch Spanning Trees                      |
| bridge-domain  | (Optional) Bridge-Domain Switch Spanning Trees             |
| <i>vlan-id</i> | (Optional) vlan range, Example: 1,3-5,7,9-11               |
| <i>bd-id</i>   | (Optional) Bridge-Domain range, Example: 2,4-5,7,9-11      |
| root           | Status and configuration of the root bridge                |
| address        | (Optional) Mac address of this bridge                      |
| cost           | (Optional) Path cost from this bridge to the root          |
| forward-time   | (Optional) Forward delay interval                          |
| hello-time     | (Optional) Hello time                                      |
| id             | (Optional) Spanning tree bridge identifier                 |
| max-age        | (Optional) Max age   |
| port           | (Optional) Root port                                       |
| brief          | (Optional) Brief summary of interface information          |
| detail         | (Optional) Detailed information                            |
| priority       | (Optional) Bridge priority of this bridge                  |
| system-id      | (Optional) Spanning tree priority with system id extension |
| __readonly__   | (Optional) Read Only                                       |

|                                      |                                     |
|--------------------------------------|-------------------------------------|
| TABLE_tree                           | (Optional)                          |
| <i>tree_id</i>                       | (Optional) Tree Id                  |
| <i>tree_tree_type</i>                | (Optional) Tree Type                |
| <i>tree_protocol</i>                 | (Optional) Tree Protocol            |
| <i>tree_designated_root</i>          | (Optional) Designated Root Mac      |
| <i>tree_designated_root_priority</i> | (Optional) Designated Root Priority |
| <i>root_path_cost</i>                | (Optional) Root Path Cost           |
| <i>root_port_if_index</i>            | (Optional) Root Port                |
| <i>root_port_priority</i>            | (Optional) Root Port Priority       |
| <i>root_port_number</i>              | (Optional) Root Port Number         |
| <i>max_age</i>                       | (Optional) Max Age                  |
| <i>hello_time</i>                    | (Optional) Hello Time               |
| <i>forward_delay</i>                 | (Optional) Forward delay            |

#### Command Mode

- /exec

## show spanning-tree summary

```
show spanning-tree [ vlan <vlan-id> | bridge-domain <bd-id> ] summary [ __readonly__ <stp-mode> [
<stp_tree_root_info> <tree_type> <bridge_mac> <bridge_priority> <tree_designated_root>
<tree_designated_root_priority> ] + [ <stp_root_bmp_info> <stp_root_tree_type> <tree_root_bmp>
<stp_l2gstp_bmp_info> <stp_l2gstp_tree_type> [ <stp_l2gstp_bmp> ] ] <stp_global_info> <pcost_method>
<oper_pcost_method> <port_fast> <bpdu_guard> <bpdu_filter> <oper_loopguard> <bridge_assurance>
<networkport_default> <simulate_pvst> <max-hops> <peer_switch_cfg> <oper_peer_switch>
<stp_l2gstp_domain_id> <stp_lite> [ TABLE_tree <stp_tree_summary> <summary_tree_type> <disabled>
<blocking> <listening> <learning> <forwarding> <invalid> <port_count> ] [ <stp_summary_totals>
<total_tree_type> <disabled> <blocking> <listening> <learning> <forwarding> <invalid> <port_count> ] ]
```

### Syntax Description

|                                      |   |
|--------------------------------------|---|
| show                                 | Show running system information                       |
| spanning-tree                        | Show spanning tree information                        |
| vlan                                 | (Optional) VLAN Switch Spanning Trees                 |
| bridge-domain                        | (Optional) Bridge-Domain Switch Spanning Trees        |
| <i>vlan-id</i>                       | (Optional) vlan range, Example: 1,3-5,7,9-11          |
| <i>bd-id</i>                         | (Optional) Bridge-Domain range, Example: 2,4-5,7,9-11 |
| summary                              | Summary of port states                                |
| <i>__readonly__</i>                  | (Optional) Read Only                                  |
| <i>stp-mode</i>                      | (Optional) Spanning Tree operating mode               |
| <i>stp_tree_root_info</i>            | (Optional) STP Tree Root info marker                  |
| <i>tree_type</i>                     | (Optional) Tree Type                                  |
| <i>bridge_mac</i>                    | (Optional) Bridge Mac                                 |
| <i>bridge_priority</i>               | (Optional) Bridge Priority                            |
| <i>tree_designated_root</i>          | (Optional) Designated Root Mac                        |
| <i>tree_designated_root_priority</i> | (Optional) Designated Root Priority                   |
| <i>stp_root_bmp_info</i>             | (Optional) STP root bitmap info marker                |
| <i>stp_root_tree_type</i>            | (Optional) Tree Type                                  |
| <i>tree_root_bmp</i>                 | (Optional) STP tree root bmp                          |
| <i>stp_l2gstp_bmp_info</i>           | (Optional) L2 Gateway STP bitmap marker               |
| <i>stp_l2gstp_tree_type</i>          | (Optional) Tree Type                                  |

|                             |   |
|-----------------------------|---|
| <i>stp_l2gstp_bmp</i>       | (Optional) L2 Gateway STP bitmap            |
| <i>stp_global_info</i>      | (Optional) STP global info marker           |
| <i>pcost_method</i>         | (Optional) STP pathcost method              |
| <i>oper_pcost_method</i>    | (Optional) STP oper pathcost method         |
| <i>port_fast</i>            | (Optional) Port Fast configured on port     |
| <i>bpdu_guard</i>           | (Optional) Bpdu Guard mode configured       |
| <i>bpdu_filter</i>          | (Optional) Bpdu Filter mode configured      |
| <i>oper_loopguard</i>       | (Optional) Is loopguard enabled ?           |
| <i>bridge_assurance</i>     | (Optional) Bridge Assurance                 |
| <i>networkport_default</i>  | (Optional) Network Port default             |
| <i>simulate_pvst</i>        | (Optional) Is port is pvst simulate mode ?  |
| <i>max-hops</i>             | (Optional) Max Hops                         |
| <i>peer_switch_cfg</i>      | (Optional) peer switch configuration status |
| <i>oper_peer_switch</i>     | (Optional) peer switch operational status   |
| <i>stp_l2gstp_domain_id</i> | (Optional) L2 Gateway STP Domain ID         |
| <i>stp_lite</i>             | (Optional) STP-Lite                         |
| TABLE_tree                  | (Optional)                                  |
| <i>stp_tree_summary</i>     | (Optional) STP Tree Summary                 |
| <i>summary_tree_type</i>    | (Optional) Tree Type                        |
| <i>disabled</i>             | (Optional) Number of ports Disabled         |
| <i>blocking</i>             | (Optional) Number of ports Blocking         |
| <i>listening</i>            | (Optional) Number of ports Listening        |
| <i>learning</i>             | (Optional) Number of ports Learning         |
| <i>forwarding</i>           | (Optional) Number of ports Forwarding       |
| <i>invalid</i>              | (Optional) Number of ports Invalid          |
| <i>port_count</i>           | (Optional) Number of Ports in Tree          |
| <i>stp_summary_totals</i>   | (Optional) Total num STP trees              |
| <i>total_tree_type</i>      | (Optional) Tree Type                        |
| <i>disabled</i>             | (Optional) Number of ports Disabled         |

|                   |                                       |
|-------------------|---------------------------------------|
| <i>blocking</i>   | (Optional) Number of ports Blocking   |
| <i>listening</i>  | (Optional) Number of ports Listening  |
| <i>learning</i>   | (Optional) Number of ports Learning   |
| <i>forwarding</i> | (Optional) Number of ports Forwarding |
| <i>invalid</i>    | (Optional) Number of ports Invalid    |
| <i>port_count</i> | (Optional) Number of Ports in Tree    |

**Command Mode**

- /exec

## show spanning-tree summary totals

```
show spanning-tree summary totals [ __readonly__ <stp-mode> <stp_tree_root_info> <tree_type>
<bridge_mac> <bridge_priority> <tree_designated_root> <tree_designated_root_priority> <stp_root_bmp_info>
<stp_root_tree_type> <tree_root_bmp> <stp_l2gstp_bmp_info> <stp_l2gstp_tree_type> <stp_l2gstp_bmp>
<stp_global_info> <pcost_method> <oper_pcost_method> <port_fast> <bpdu_guard> <bpdu_filter>
<oper_loopguard> <bridge_assurance> <networkport_default> <simulate_pvst> <max-hops>
<peer_switch_cfg> <oper_peer_switch> <stp_l2gstp_domain_id> <stp_lite> <stp_summary_totals>
<total_tree_type> <disabled> <blocking> <listening> <learning> <forwarding> <invalid> <port_count> ]
```

### Syntax Description

|                                      |   |
|--------------------------------------|---|
| show                                 | Show running system information         |
| spanning-tree                        | Show spanning tree information          |
| summary                              | Summary of port states                  |
| totals                               | Only show totals                        |
| <i>__readonly__</i>                  | (Optional) Read Only                    |
| <i>stp-mode</i>                      | (Optional) Spanning Tree operating mode |
| <i>stp_tree_root_info</i>            | (Optional) STP Tree Root info marker    |
| <i>tree_type</i>                     | (Optional) Tree Type                    |
| <i>bridge_mac</i>                    | (Optional) Bridge Mac                   |
| <i>bridge_priority</i>               | (Optional) Bridge Priority              |
| <i>tree_designated_root</i>          | (Optional) Designated Root Mac          |
| <i>tree_designated_root_priority</i> | (Optional) Designated Root Priority     |
| <i>stp_root_bmp_info</i>             | (Optional) STP root bitmap info marker  |
| <i>stp_root_tree_type</i>            | (Optional) Tree Type                    |
| <i>tree_root_bmp</i>                 | (Optional) STP tree root bmp            |
| <i>stp_l2gstp_bmp_info</i>           | (Optional) L2 Gateway STP bitmap marker |
| <i>stp_l2gstp_tree_type</i>          | (Optional) Tree Type                    |
| <i>stp_l2gstp_bmp</i>                | (Optional) L2 Gateway STP bitmap        |
| <i>stp_global_info</i>               | (Optional) STP global info marker       |
| <i>pcost_method</i>                  | (Optional) STP pathcost method          |
| <i>oper_pcost_method</i>             | (Optional) STP oper pathcost method     |
| <i>port_fast</i>                     | (Optional) Port Fast configured on port |

|                             |   |
|-----------------------------|---|
| <i>bpdu_guard</i>           | (Optional) Bpdu Guard mode configured       |
| <i>bpdu_filter</i>          | (Optional) Bpdu Filter mode configured      |
| <i>oper_loopguard</i>       | (Optional) Is loopguard enabled ?           |
| <i>bridge_assurance</i>     | (Optional) Bridge Assurance                 |
| <i>networkport_default</i>  | (Optional) Network Port default             |
| <i>simulate_pvst</i>        | (Optional) Is port is pvst simulate mode ?  |
| <i>max-hops</i>             | (Optional) Max Hops                         |
| <i>peer_switch_cfg</i>      | (Optional) peer switch configuration status |
| <i>oper_peer_switch</i>     | (Optional) peer switch operational status   |
| <i>stp_l2gstp_domain_id</i> | (Optional) L2 Gateway STP Domain ID         |
| <i>stp_lite</i>             | (Optional) STP-Lite                         |
| <i>stp_summary_totals</i>   | (Optional) Total num STP trees              |
| <i>total_tree_type</i>      | (Optional) Tree Type                        |
| <i>disabled</i>             | (Optional) Number of ports Disabled         |
| <i>blocking</i>             | (Optional) Number of ports Blocking         |
| <i>listening</i>            | (Optional) Number of ports Listening        |
| <i>learning</i>             | (Optional) Number of ports Learning         |
| <i>forwarding</i>           | (Optional) Number of ports Forwarding       |
| <i>invalid</i>              | (Optional) Number of ports Invalid          |
| <i>port_count</i>           | (Optional) Number of Ports in Tree          |

**Command Mode**

- /exec



## show srte pce ipv4 peer

```
show srte pce ipv4 peer [ <pce_address> ] [ __readonly__ [ TABLE_peer <pce_address> <pcc_address>
<precedence> <state> ] ]
```

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information             |
| srte                | Show Segment-Routing Traffic Eng commands   |
| pce                 | Show PCC related information                |
| ipv4                | Show ipv4 pcc information                   |
| peer                | Show PCE peers                              |
| <i>pce_address</i>  | (Optional) PCE address of the peer          |
| <i>__readonly__</i> | (Optional)                                  |
| TABLE_peer          | (Optional) Table with a list of peers       |
| <i>pce_address</i>  | (Optional) Address of the PCE               |
| <i>pcc_address</i>  | (Optional) Address of the PCC               |
| <i>precedence</i>   | (Optional) Configured precedence of the PCE |
| <i>state</i>        | (Optional) State of the PCE connection      |

### Command Mode

- /exec

## show srte policy

```
show srte policy [ { <policy_name_val> } | { color <color_val> endpoint <end_point_val> } | { policy-id
<policy_id_val> } ] [ holddown ] [ detail ] [ __readonly__ [ TABLE_policy <policy_name> <source>
<end_point> <state> <col> <binding_label> <policy_id> [ <flags> ] [ <holddown_time> ] [ TABLE_pref
<pref> [ TABLE_paths { <exp_path_name> | <deleg_pce_addr> } [ TABLE_index <index> <label> ] ] ] ] ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information                     |
| srte                   | Show Segment-Routing Traffic Eng commands           |
| policy                 | Show existing policies                              |
| color                  | (Optional) Show policies with the color             |
| endpoint               | (Optional) Show Policies with the destination       |
| <i>end_point_val</i>   | (Optional) Endpoint for the policy                  |
| <i>policy_name_val</i> | (Optional) Policy name of the policy                |
| <i>color_val</i>       | (Optional) Color of the policy                      |
| <i>policy_id_val</i>   | (Optional) Policy_id of the policy                  |
| policy-id              | (Optional) Show Policy for the policy-id            |
| holddown               | (Optional) Show Policies that are in holddown       |
| detail                 | (Optional) Display detailed information             |
| __readonly__           | (Optional)  |
| TABLE_policy           | (Optional) Table with a list of policies            |
| <i>policy_name</i>     | (Optional) Unique name for the policy               |
| <i>end_point</i>       | (Optional) Endpoint for the policy                  |
| <i>source</i>          | (Optional) Source address of the policy             |
| <i>state</i>           | (Optional) State of the policy                      |
| <i>col</i>             | (Optional) Color of the policy                      |
| <i>binding_label</i>   | (Optional) Binding label of the policy              |
| <i>policy_id</i>       | (Optional) Policy ID                                |
| <i>flags</i>           | (Optional) Policy Flags                             |
| <i>holddown_time</i>   | (Optional) Time when the policy was put in holddown |

|                       |  |
|-----------------------|--|
| TABLE_pref            | (Optional) Table with a list of candidate path based on pref |
| <i>pref</i>           | (Optional) Preference for candidate paths                    |
| TABLE_paths           | (Optional) Table with a list of exp path for pref            |
| <i>exp_path_name</i>  | (Optional) Name of the explicit-path                         |
| <i>deleg_pce_addr</i> | (Optional) Delegated PCE Address                             |
| TABLE_index           | (Optional) Table with a list of index for the exp path       |
| <i>index</i>          | (Optional) Index for the explicit path                       |
| <i>label</i>          | (Optional) Label for the explicit path                       |

**Command Mode**

- /exec

## show srte policy fh

```
show srte policy fh [ __readonly__ [ TABLE_fh [ <label> <type> <state> ] [ TABLE_index [ <index>
<ip_addr> <mask_len> ] ] ] ]
```

### Syntax Description

|                 |   |
|-----------------|---|
| show            | Show running system information               |
| srte            | Show Segment-Routing Traffic Eng commands     |
| policy          | Show existing policies                        |
| fh              | Show existing policies firsthop state         |
| __readonly__    | (Optional)                                    |
| TABLE_fh        | (Optional) Table with a list of first hops    |
| <i>label</i>    | (Optional) First hop label                    |
| <i>type</i>     | (Optional) First hop type                     |
| <i>state</i>    | (Optional) First hop state                    |
| TABLE_index     | (Optional) Table with index for the first hop |
| <i>index</i>    | (Optional) Index for the first hop            |
| <i>ip_addr</i>  | (Optional) Monitored address                  |
| <i>mask_len</i> | (Optional) Mask length                        |

### Command Mode

- /exec

# show ssh key

```
show ssh key [ { dsa [ md5 ] | rsa [ md5 ] | ecdsa [ [ md5 ] } ] [ __readonly__ { TABLE_sessions <key_type>
<key_time> <key_data> <key_bitcount> <key_fingerprint> } ]
```

## Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information           |
| ssh                    | Show SSH information                      |
| key                    | Show ssh keys                             |
| dsa                    | (Optional) Show dsa ssh keys              |
| rsa                    | (Optional) Show rsa ssh keys              |
| ecdsa                  | (Optional) Show ecdsa ssh keys            |
| md5                    | (Optional) Show Fingerprint in MD5 Format |
| __readonly__           | (Optional)                                |
| TABLE_sessions         | (Optional) ssh key                        |
| <i>key_type</i>        | (Optional) keys type                      |
| <i>key_time</i>        | (Optional) timestamp                      |
| <i>key_data</i>        | (Optional) ssh key data                   |
| <i>key_bitcount</i>    | (Optional) bitcount                       |
| <i>key_fingerprint</i> | (Optional) fingerprint                    |

## Command Mode

- /exec

# show ssh server

```
show ssh server [ __readonly__ { operation_status <o_status> } ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information             |
| ssh                     | Show SSH information                        |
| server                  | Show whether ssh server is enabled or not   |
| <i>__readonly__</i>     | (Optional)                                  |
| <i>operation_status</i> | (Optional) run-time information about ssh   |
| <i>o_status</i>         | (Optional) operational status of ssh server |

## Command Mode

- /exec

# show ssx details

```
show ssx details [ __readonly__ [ TABLE_ssx_details  
<system-id><arp-timer-running><asic-instance><asic-slice><io-srcid> [ <packets-sent> ] ] ]
```

## Syntax Description

|                   |                              |
|-------------------|------------------------------|
| ssx               | Display SSX information      |
| details           | Show SSX details             |
| __readonly__      | (Optional) Read Only         |
| TABLE_ssx_details | (Optional) SSX details table |

## Command Mode

- /exec

# show ssx exporter

```
show ssx exporter { all | <exportername> } [ __readonly__ [ TABLE_ssx_exporters <exporter-name>
<src-ip><src-udp-port><dest-ip><dest-udp-port><vrf><mtu><dscp> ] ]
```

## Syntax Description

|                     |                                |
|---------------------|--------------------------------|
| ssx                 | Display SSX information        |
| exporter            | Show exporter details          |
| all                 | All sessions                   |
| <i>exportername</i> | SSX Exporter to display        |
| <i>__readonly__</i> | (Optional) Read Only           |
| TABLE_ssx_exporters | (Optional) SSX Exporters table |

## Command Mode

- /exec



# show ssx monitor

```
show ssx monitor { all | <monitorname> } [ __readonly__ [ TABLE_ssx_monitors <monitor-name>
<globally-applied><status><exportername><recordname> ] ]
```

## Syntax Description

|                    |                               |
|--------------------|-------------------------------|
| ssx                | Display SSX information       |
| monitor            | Show monitor details          |
| all                | All sessions                  |
| <i>monitorname</i> | SSX Monitor to display        |
| __readonly__       | (Optional) Read Only          |
| TABLE_ssx_monitors | (Optional) SSX monitors table |

## Command Mode

- /exec

# show ssx record

```
show ssx record { all | <recordname> } [ __readonly__ [ TABLE_ssx_records <record-name> [
TABLE_stats_type <stats-type> ] <interval> ] ]
```

## Syntax Description

|                                |   |
|--------------------------------|---|
| <code>ssx</code>               | Display SSX information                 |
| <code>record</code>            | Show record details                     |
| <code>all</code>               | All sessions                            |
| <i>recordname</i>              | SSX Record to display                   |
| <code>__readonly__</code>      | (Optional) Read Only                    |
| <code>TABLE_ssx_records</code> | (Optional) SSX records table            |
| <code>TABLE_stats_type</code>  | (Optional) SSX records stats type table |
| <i>interval</i>                | (Optional) SSX interval                 |

## Command Mode

- /exec

# show startup-config

show startup-config

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| startup-config | Current startup configuration   |

## Command Mode

- /exec

# show startup-config aaa

show startup-config aaa

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show startup-cfg                |
| startup-config | show startup system information |
| aaa            | Display aaa configuration       |

## Command Mode

- /exec

# show startup-config acllog

show startup-config acllog [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| startup-config | Displaying the startup configuration         |
| acllog         | show startup config for acllog               |
| all            | (Optional) show startup config with defaults |

## Command Mode

- /exec

# show startup-config aclmgr

show startup-config aclmgr [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| startup-config | Display the startup configuration            |
| aclmgr         | show startup config for aclmgr               |
| all            | (Optional) show startup config with defaults |

## Command Mode

- /exec

# show startup-config adjmgr

show startup-config adjmgr [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| adjmgr         | Display adjmgr information                           |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config arp

show startup-config arp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| arp            | Display arp information                              |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec



# show startup-config assoc

show startup-config assoc [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| startup-config | Current saved configuration                  |
| assoc          | Original ID to Translated ID Association     |
| all            | (Optional) show startup config with defaults |

## Command Mode

- /exec

# show startup-config backup

show startup-config { backup | flexlink } [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information           |
| startup-config | System startup-config commands            |
| backup         | Show startup config for Switchport Backup |
| flexlink       | Show startup config for Switchport Backup |
| all            | (Optional) Show config with defaults      |

## Command Mode

- /exec

# show startup-config bfd

show startup-config bfd [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show system information                      |
| startup-config | Display the startup configuration            |
| bfd            | show startup config for bfd                  |
| all            | (Optional) show startup config with defaults |

## Command Mode

- /exec

# show startup-config bgp

show startup-config bgp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| bgp            | Display bgp information                              |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config bloggerd

show startup-config bloggerd [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | show startup-cfg                              |
| startup-config | show system startup configuration information |
| bloggerd       | Display bloggerd configuration                |
| all            | (Optional) show startup config with defaults  |

## Command Mode

- /exec

# show startup-config callhome

show startup-config callhome

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show startup-cfg                |
| startup-config | show startup system information |
| callhome       | Display callhome configuration  |

## Command Mode

- /exec

# show startup-config catena

show startup-config catena

## Syntax Description

|                |                                   |
|----------------|-----------------------------------|
| show           | Show system information           |
| startup-config | System startup configuration      |
| catena         | startup config for feature CATENA |

## Command Mode

- /exec

# show startup-config cdp

show startup-config cdp [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | show startup-cfg                              |
| startup-config | show system startup configuration information |
| cdp            | Display cdp configuration                     |
| all            | (Optional) show startup config with defaults  |

## Command Mode

- /exec



# show startup-config cert-enroll

show startup-config cert-enroll

## Syntax Description

|                |                                    |
|----------------|------------------------------------|
| show           | show startup-cfg                   |
| startup-config | show startup system information    |
| cert-enroll    | Display certificates configuration |

## Command Mode

- /exec

# show startup-config cfs

show startup-config cfs [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| startup-config | Current startup configuration                |
| cfs            | Display cfs configurations                   |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show startup-config config-profile

show startup-config config-profile [ <all\_conf\_profile\_name> ]

## Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show startup-config                      |
| startup-config               | Current startup configuration            |
| config-profile               | Display port-profile configuration       |
| <i>all_conf_profile_name</i> | (Optional) Enter the name of the profile |

## Command Mode

- /exec

# show startup-config copp

show startup-config copp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| startup-config | System startup-config commands               |
| copp           | Control-Plane Policing                       |
| all            | (Optional) show startup config with defaults |

## Command Mode

- /exec

# show startup-config dhcp

show startup-config dhcp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| startup-config | Current startup configuration                |
| dhcp           | Display dhcp snoop configurations            |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show startup-config diagnostic

show startup-config diagnostic [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| startup-config | Contents of startup configuration               |
| diagnostic     | Diagnostic configuration                        |
| all            | (Optional) Display running config with defaults |

## Command Mode

- /exec

# show startup-config dot1x

show startup-config dot1x

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show startup-cfg                |
| startup-config | show startup system information |
| dot1x          | Display dot1x configuration     |

## Command Mode

- /exec

# show startup-config ecp

show startup-config ecp [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| startup-config | Current startup configuration                   |
| ecp            | ECP (Edge Control Protocol)                     |
| all            | (Optional) Display startup config with defaults |

## Command Mode

- /exec



# show startup-config eem

show startup-config eem

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| startup-config | Show the system startup configuration        |
| eem            | Show the event manager startup configuration |

## Command Mode

- /exec

# show startup-config eigrp

show startup-config eigrp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| eigrp          | Display eigrp information                            |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config eltm

show startup-config eltm

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| startup-config | Current startup configuration   |
| eltm           | Display eltm configurations     |

## Command Mode

- /exec

# show startup-config evb

show startup-config evb [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| startup-config | Current startup configuration                   |
| evb            | EVB (Edge Virtual Bridge)                       |
| all            | (Optional) Display startup config with defaults |

## Command Mode

- /exec

# show startup-config exclude

show startup-config exclude <feature-list> +

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                     |
| startup-config      | Current startup configuration                       |
| exclude             | Exclude startup configuration of specified features |
| <i>feature-list</i> | Exclude features                                    |

## Command Mode

- /exec

# show startup-config expand-port-profile

show startup-config expand-port-profile

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| startup-config      | System startup-config commands  |
| expand-port-profile | Expand port profile             |

## Command Mode

- /exec

# show startup-config fabric forwarding

show startup-config fabric forwarding [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                         |
| startup-config | Current startup configuration                           |
| fabric         | Fabric  |
| forwarding     | Fabric Forwarding Protocol: Host Mobility Manager (HMM) |
| all            | (Optional) Display running config with defaults clis    |

## Command Mode

- /exec

# show startup-config fabric multicast

show startup-config fabric multicast [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| fabric         | Fabric   |
| multicast      | Multicast information                                |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec



# show startup-config fabricpath

show startup-config fabricpath

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| startup-config | System startup-config commands  |
| fabricpath     | fabricpath information          |

## Command Mode

- /exec

# show startup-config fabricpath domain default

show startup-config fabricpath domain default [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| fabricpath     | fabricpath information                               |
| domain         | Enter fabricpath IS-IS domain configuration mode     |
| default        | default fabricpath domain                            |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config fabricpath switch-id

show startup-config fabricpath switch-id

## Syntax Description

|                |                                    |
|----------------|------------------------------------|
| startup-config | Current startup configuration      |
| fabricpath     | fabricpath information             |
| switch-id      | fabricpath switch-id configuration |

## Command Mode

- /exec

# show startup-config fabricpath topology

show startup-config fabricpath topology [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| fabricpath     | fabricpath Module Information                        |
| topology       | Fabricpath topology Information                      |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config fcoe\_mgr

show startup-config fcoe\_mgr

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show startup-cfg                |
| startup-config | show startup system information |
| fcoe_mgr       | Display fcoe_mgr configuration  |

## Command Mode

- /exec

# show startup-config glbp

show startup-config glbp

## Syntax Description

|                |                              |
|----------------|------------------------------|
| show           | Show system information      |
| startup-config | System startup configuration |
| glbp           | GLBP startup configuration   |

## Command Mode

- /exec

# show startup-config hardware-telemetry

show startup-config hardware-telemetry [ all ]

## Syntax Description

|                    |  |
|--------------------|--|
| show               | Show system information                      |
| startup-config     | Current startup configuration                |
| hardware-telemetry | show startup config for hardware-telemetry   |
| all                | (Optional) show running config with defaults |

## Command Mode

- /exec

# show startup-config hsrp

show startup-config hsrp

## Syntax Description

|                |                              |
|----------------|------------------------------|
| show           | Show system information      |
| startup-config | System startup configuration |
| hsrp           | HSRP startup configuration   |

## Command Mode

- /exec



# show startup-config icam

show startup-config icam

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show startup-cfg                |
| startup-config | show startup system information |
| icam           | icam services                   |

## Command Mode

- /exec

# show startup-config igmp

show startup-config igmp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| igmp           | Display igmp information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config imp

show startup-config imp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                    |
| startup-config | Current startup configuration                      |
| imp            | Display imp information                            |
| all            | (Optional) Display start config with defaults clis |

## Command Mode

- /exec

## show startup-config interface

show startup-config interface <if0> [ membership ] [ expand-port-profile ]

### Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                 |
| startup-config      | Current startup configuration                   |
| interface           | Interface configuration                         |
| <i>if0</i>          | interface type and number in module/slot format |
| membership          | (Optional) Show membership information          |
| expand-port-profile | (Optional) Expand port profile                  |

### Command Mode

- /exec

# show startup-config interface

show startup-config interface [ <if0> ] [ expand-port-profile ]

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                            |
| startup-config      | Current startup configuration                              |
| interface           | Interface configuration                                    |
| <i>if0</i>          | (Optional) interface type and number in module/slot format |
| expand-port-profile | (Optional) Expand port profile                             |

## Command Mode

- /exec

# show startup-config ip

show startup-config ip [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| ip             | Display ip information                               |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config ipqos

show startup-config ipqos [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| startup-config | Display the startup configuration            |
| all            | (Optional) show startup config with defaults |

## Command Mode

- /exec

# show startup-config isis

show startup-config isis [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| isis           | Display isis information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec



# show startup-config l3vm

show startup-config l3vm [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| startup-config | Current startup configuration                   |
| l3vm           | Display l3vm information                        |
| all            | (Optional) Display running config with defaults |

## Command Mode

- /exec

# show startup-config ldap

show startup-config ldap

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show startup-cfg                |
| startup-config | show startup system information |
| ldap           | Display ldap configuration      |

## Command Mode

- /exec

# show startup-config license

show startup-config license [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show startup-cfg                             |
| startup-config | show startup system information              |
| license        | Display licensing configuration              |
| all            | (Optional) show startup config with defaults |

## Command Mode

- /exec

# show startup-config lisp

show startup-config lisp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| lisp           | Display lisp information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config lldp

```
show startup-config lldp [ all ]
```

## Syntax Description

|                |   |
|----------------|---|
| show           | show startup-cfg                              |
| startup-config | show system startup configuration information |
| lldp           | Display lldp configuration                    |
| all            | (Optional) show startup config with defaults  |

## Command Mode

- /exec

## show startup-config log

```
show startup-config { log | mdp-log } [ bootstrap ]
```

### Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                                     |
| startup-config | Current startup configuration                                       |
| mdp-log        | Displays execution log of last used mdp ascii startup configuration |
| log            | Displays execution log of last used ascii startup configuration     |
| bootstrap      | (Optional) Bootstrap config replay execution log                    |

### Command Mode

- /exec

# show startup-config macsec

show startup-config macsec

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| startup-config | show startup system information |
| macsec         | Show CTS information            |

## Command Mode

- /exec

# show startup-config mmode

show startup-config mmode [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                |
| startup-config | Show startup configuration                     |
| mmode          | Display maintenance mode startup configuration |
| all            | (Optional) Show startup config with defaults   |

## Command Mode

- /exec



# show startup-config monitor

show startup-config monitor

## Syntax Description

|                |                                  |
|----------------|----------------------------------|
| show           | Show running system information  |
| startup-config | Current startup configuration    |
| monitor        | Configure Ethernet SPAN sessions |

## Command Mode

- /exec

# show startup-config mpls static

show startup-config mpls static [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| startup-config | Current operating configuration                 |
| mpls           | Display MPLS status and configuration           |
| static         | Static Label Bindings                           |
| all            | (Optional) Display running-config with defaults |

## Command Mode

- /exec

# show startup-config mpls traffic-eng

show startup-config mpls traffic-eng [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| startup-config | Current startup configuration                |
| mpls           | show startup config for mpls features        |
| traffic-eng    | show startup-config for Traffic Engineering  |
| all            | (Optional) show startup config with defaults |

## Command Mode

- /exec

# show startup-config msdp

show startup-config msdp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| msdp           | Display msdp information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config nat

show startup-config nat [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show system information                      |
| startup-config | Display the startup configuration            |
| nat            | show startup config for nat                  |
| all            | (Optional) show startup config with defaults |

## Command Mode

- /exec

# show startup-config nbm

show startup-config nbm

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| startup-config | Current startup configuration   |
| nbm            | Non Blocking Multicast          |

## Command Mode

- /exec

# show startup-config ngoam

show startup-config ngoam

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| startup-config | Show startup system information |
| ngoam          | ngoam configuration             |

## Command Mode

- /exec

# show startup-config ntp

show startup-config ntp [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show information                              |
| startup-config | Show startup system configuration             |
| ntp            | Show NTP information                          |
| all            | (Optional) Show all NTP startup configuration |

## Command Mode

- /exec



# show startup-config nv overlay

show startup-config nv overlay [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show system information                  |
| startup-config | System startup configuration             |
| nv             | NVE startup configuration                |
| overlay        | NVE startup configuration                |
| all            | (Optional) Show NVE config with defaults |

## Command Mode

- /exec

# show startup-config nxsdk

show startup-config nxsdk [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| startup-config | Display the startup configuration               |
| nxsdk          | NXOS SDK  |
| all            | (Optional) Display running config with defaults |

## Command Mode

- /exec

# show startup-config openflow

show startup-config openflow [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| startup-config | Current startup configuration                |
| openflow       | Show startup config for OpenFlow             |
| all            | (Optional) Show startup config with defaults |

## Command Mode

- /exec

# show startup-config ospf

show startup-config ospf [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| ospf           | Display ospf information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config ospfv3

show startup-config ospfv3 [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| ospfv3         | Display ospfv3 information                           |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config otv-isis

show startup-config otv-isis [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| otv-isis       | Display otv-isis information                         |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config otv

show startup-config otv [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| otv            | Display otv information                              |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config param-list

show startup-config param-list [ <plistname> ]

## Syntax Description

|                  |   |
|------------------|---|
| show             | Show startup-cfg                            |
| startup-config   | show startup configuration                  |
| param-list       | Display param-list configuration            |
| <i>plistname</i> | (Optional) Enter the name of the param list |

## Command Mode

- /exec



# show startup-config pim

show startup-config pim [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| pim            | Display pim information                              |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config pim6

show startup-config pim6 [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| pim6           | Display pim6 information                             |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config plb-services

show startup-config plb-services

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show startup-cfg                |
| startup-config | show startup system information |
| plb-services   | PLB services                    |

## Command Mode

- /exec

# show startup-config poe

show startup-config poe [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| startup-config | Current saved configuration                  |
| poe            | Power over Ethernet                          |
| all            | (Optional) show startup config with defaults |

## Command Mode

- /exec

# show startup-config port-profile

show startup-config port-profile [ <all\_profile\_name> ]

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show startup-config                      |
| startup-config          | Current startup configuration            |
| port-profile            | Display port-profile configuration       |
| <i>all_profile_name</i> | (Optional) Enter the name of the profile |

## Command Mode

- /exec

# show startup-config port-security

show startup-config port-security [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show startup-cfg                             |
| startup-config | show startup system information              |
| port-security  | Display port-security configuration          |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show startup-config ptp

show startup-config ptp [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | show system information                                     |
| startup-config | show startup system information                             |
| ptp            | Show startup configuration for ptp                          |
| all            | (Optional) Show startup configuration for PTP with defaults |

## Command Mode

- /exec

# show startup-config radius

show startup-config radius

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show startup-cfg                |
| startup-config | show startup system information |
| radius         | Display radius configuration    |

## Command Mode

- /exec



# show startup-config rip

show startup-config rip [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| rip            | Display rip information                              |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config routing ip multicast

```
show startup-config routing { ip | ipv4 } multicast [ all ]
```

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| routing        | Display routing information                          |
| ip             | Display IP information                               |
| ipv4           | Display IP information                               |
| multicast      | Display multicast information                        |
| all            | (Optional) Display startup config with defaults clis |

## Command Mode

- /exec

# show startup-config routing ipv6 multicast

show startup-config routing ipv6 multicast [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| routing        | Display routing information                          |
| ipv6           | Display IPv6 information                             |
| multicast      | Display multicast information                        |
| all            | (Optional) Display startup config with defaults clis |

## Command Mode

- /exec

# show startup-config rpm

show startup-config rpm [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| startup-config | Current startup configuration                   |
| rpm            | Display Route Policy Manager (RPM) information  |
| all            | (Optional) Display startup config with defaults |

## Command Mode

- /exec

# show startup-config rsvp

show startup-config rsvp

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| startup-config | Current startup configuration   |
| rsvp           | Display RSVP status             |

## Command Mode

- /exec

# show startup-config scheduler

show startup-config scheduler [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | show startup-cfg                              |
| startup-config | show system startup configuration information |
| scheduler      | Show scheduler config or data                 |
| all            | (Optional) show startup config with defaults  |

## Command Mode

- /exec

# show startup-config security

show startup-config security

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show startup-cfg                |
| startup-config | show startup system information |
| security       | Display security configuration  |

## Command Mode

- /exec

# show startup-config segment-routing

show startup-config segment-routing [ all ]

## Syntax Description

|                 |   |
|-----------------|---|
| show            | Show running system information               |
| startup-config  | Show startup configuration                    |
| segment-routing | Display segment-routing startup configuration |
| all             | (Optional) Show startup config with defaults  |

## Command Mode

- /exec



# show startup-config services

show startup-config services

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show startup-cfg                |
| startup-config | show startup system information |
| services       | services                        |

## Command Mode

- /exec

# show startup-config sflow

show startup-config { sflow } [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show system information                      |
| startup-config | Current startup configuration                |
| sflow          | show startup config for sflow                |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show startup-config sla responder

show startup-config sla responder

## Syntax Description

|                |                                      |
|----------------|--------------------------------------|
| show           | show startup-cfg                     |
| startup-config | show startup system information      |
| sla            | Service Level Agreement (SLA)        |
| responder      | Show information about sla-responder |

## Command Mode

- /exec

# show startup-config sla sender

show startup-config sla sender

## Syntax Description

|                |                                   |
|----------------|-----------------------------------|
| show           | show startup-cfg                  |
| startup-config | show startup system information   |
| sla            | Service Level Agreement (SLA)     |
| sender         | Show information about sla-sender |

## Command Mode

- /exec

# show startup-config sla twamp-server

show startup-config sla twamp-server

## Syntax Description

|                |                                     |
|----------------|-------------------------------------|
| show           | show startup-cfg                    |
| startup-config | show startup system information     |
| sla            | Service Level Agreement (SLA)       |
| twamp-server   | Show information about twamp-server |

## Command Mode

- /exec

# show startup-config smart-channel

show startup-config smart-channel

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show startup-cfg                |
| startup-config | show startup system information |
| smart-channel  | smart-channel services          |

## Command Mode

- /exec

# show startup-config snmp

show startup-config snmp [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show startup-cfg                             |
| startup-config | show startup system information              |
| snmp           | Display snmp configuration                   |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show startup-config srte

show startup-config srte

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| startup-config | Current operating configuration |
| srte           | SRTE                            |

## Command Mode

- /exec



# show startup-config switch

```
show startup-config { switch-profile | include-switch-profile }
```

## Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information               |
| startup-config         | System startup configuration                  |
| switch-profile         | Show switch-profile information               |
| include-switch-profile | Show startup and switch-profile configuration |

## Command Mode

- /exec

# show startup-config tacacs

show startup-config tacacs +

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | show startup-cfg                |
| startup-config | show startup system information |

## Command Mode

- /exec

# show startup-config telemetry

show startup-config telemetry [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | show startup system configuration            |
| startup-config | show startup system information              |
| telemetry      | Display telemetry configuration              |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show startup-config track

show startup-config track

## Syntax Description

|                |                                       |
|----------------|---------------------------------------|
| show           | Show running system information       |
| startup-config | Show the system startup configuration |
| track          | Show the track startup configuration  |

## Command Mode

- /exec

# show startup-config udd

show startup-config udd

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| startup-config | Current startup configuration   |
| udd            | Show udd configuration          |

## Command Mode

- /exec

# show startup-config vdc-all

show startup-config vdc-all

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| startup-config | Current startup configuration   |
| vdc-all        | Display config from all VDC     |

## Command Mode

- /exec

# show startup-config vdc

show startup-config vdc [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information              |
| startup-config | Current saved configuration                  |
| vdc            | Show Virtual Device Contexts                 |
| all            | (Optional) show startup config with defaults |

## Command Mode

- /exec

# show startup-config virtual-service

show startup-config virtual-service

## Syntax Description

|                 |   |
|-----------------|---|
| show            | Show running system information                 |
| startup-config  | System startup-config commands                  |
| virtual-service | Show startup config for virtualization services |

## Command Mode

- /exec



# show startup-config vlan

show startup-config vlan <vlan-id>

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                 |
| startup-config | System startup-config commands                  |
| vlan           | Vlan commands                                   |
| <i>vlan-id</i> | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |

## Command Mode

- /exec

# show startup-config vlan

show startup-config vlan

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| startup-config | System startup-config commands  |
| vlan           | Vlan commands                   |

## Command Mode

- /exec

# show startup-config vmtracker

show startup-config vmtracker [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show system information                        |
| startup-config | System startup configuration                   |
| vmtracker      | Show VMTracker configuration                   |
| all            | (Optional) Show VMTracker config with defaults |

## Command Mode

- /exec

# show startup-config vpc

show startup-config vpc [ all ]

## Syntax Description

|                |  |
|----------------|--|
| startup-config | Current startup configuration                |
| vpc            | show startup config for vPC                  |
| all            | (Optional) show running config with defaults |

## Command Mode

- /exec

# show startup-config vrf

show startup-config vrf <vrf-cfg-name> [ all ]

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                      |
| startup-config      | Current startup configuration                        |
| vrf                 | Display VRF information                              |
| <i>vrf-cfg-name</i> | Configurable VRF name                                |
| all                 | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config vrf default

show startup-config vrf default [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                      |
| startup-config | Current startup configuration                        |
| vrf            | Display VRF information                              |
| default        | Known VRF name                                       |
| all            | (Optional) Display running config with defaults clis |

## Command Mode

- /exec

# show startup-config vrrpv3

show startup-config vrrpv3 [ all ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show system information                                |
| startup-config | System startup configuration                           |
| vrrpv3         | VRRPv3 startup configuration                           |
| all            | (Optional) show startup config of VRRPv3 with defaults |

## Command Mode

- /exec

# show startup-config vshd

show startup-config vshd

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show startup system information |
| startup-config | Current startup configuration   |
| vshd           | Show startup config for vshd    |

## Command Mode

- /exec



# show startup-config vtp

show startup-config vtp [ all ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                             |
| startup-config | System startup-config commands                              |
| vtp            | Show startup configuration for VTP                          |
| all            | (Optional) Show startup configuration for VTP with defaults |

## Command Mode

- /exec

# show startup-config wwnm

show startup-config wwnm

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information           |
| startup-config | Current startup configuration             |
| wwnm           | Display WWN Manager startup configuration |

## Command Mode

- /exec

# show summary

```
show { ip mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] | ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] all | ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] [ ipv4 [ { unicast | multicast } ] ] } summary [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                                 |
| ip                    | Display IP information  |
| bgp                   | Display BGP status and configuration                            |
| mbgp                  | Display MBGP status and configuration                           |
| vrf                   | (Optional) Virtual Router Context                               |
| <i>vrf-name</i>       | (Optional) VRF name   |
| <i>vrf-known-name</i> | (Optional) Known VRF name                                       |
| summary               | Display summarized information of BGP state                     |
| ipv4                  | (Optional) Display BGP information for IPv4 address family      |
| unicast               | (Optional) Display BGP information for unicast address family   |
| multicast             | (Optional) Display BGP information for multicast address family |
| all                   | Display BGP information for all address families                |

## Command Mode

- /exec

# show switch-profile

show switch-profile [ *\_\_readonly\_\_* <profile\_name> <cfg\_rev> ]

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| switch-profile      | Show switch-profiles            |
| <i>__readonly__</i> | (Optional)                      |
| <i>profile_name</i> | (Optional)                      |
| <i>cfg_rev</i>      | (Optional)                      |

## Command Mode

- /exec

# show switch-profile

```
show switch-profile [ <profile-name> ] { session-history | status commit } [ __readonly__ <prof-name>
TABLE_session <session_index> <start_usec> <start_time> <end_usec> <end_time> <revision_number>
<session_type> <session_subtype> <peer_triggered> [ <profile_status> ] [ <local_status> ] [ <local_error>
] [ <peer_address> ] [ <peer_sync_status> ] [ <merge_flags> ] [ <remote_status> ] [ <remote_error> ] ]
```

## Syntax Description

|                         |                                   |
|-------------------------|-----------------------------------|
| show                    | Show running system information   |
| switch-profile          | Show switch-profile               |
| session-history         | Switch-profile session-history    |
| <i>profile-name</i>     | (Optional) switch-profile name    |
| status                  | Switch-profile sync status        |
| commit                  | Switch-profile last commit status |
| <i>__readonly__</i>     | (Optional)                        |
| <i>prof-name</i>        | (Optional)                        |
| TABLE_session           | (Optional)                        |
| <i>session_index</i>    | (Optional)                        |
| <i>start_usec</i>       | (Optional)                        |
| <i>start_time</i>       | (Optional)                        |
| <i>end_usec</i>         | (Optional)                        |
| <i>end_time</i>         | (Optional)                        |
| <i>revision_number</i>  | (Optional)                        |
| <i>session_type</i>     | (Optional)                        |
| <i>session_subtype</i>  | (Optional)                        |
| <i>peer_triggered</i>   | (Optional)                        |
| <i>profile_status</i>   | (Optional)                        |
| <i>local_status</i>     | (Optional)                        |
| <i>local_error</i>      | (Optional)                        |
| <i>peer_address</i>     | (Optional)                        |
| <i>peer_sync_status</i> | (Optional)                        |

|                      |            |
|----------------------|------------|
| <i>merge_flags</i>   | (Optional) |
| <i>remote_status</i> | (Optional) |
| <i>remote_error</i>  | (Optional) |

**Command Mode**

- /exec

# show switch-profile buffer

```
show switch-profile [ <profile-name> ] buffer [ __readonly__ <prof-name> [ TABLE_commands <seq_no>
[ <cmd> ] + ] ]
```

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| switch-profile      | Show switch-profile             |
| buffer              | buffered commands               |
| <i>profile-name</i> | (Optional) switch-profile name  |
| <i>__readonly__</i> | (Optional)                      |
| <i>prof-name</i>    | (Optional)                      |
| TABLE_commands      | (Optional)                      |
| <i>seq_no</i>       | (Optional)                      |
| <i>cmd</i>          | (Optional)                      |

## Command Mode

- /exec

# show switch-profile peer

```
show switch-profile [ <profile-name> ] peer [ <dest-ip> ] [ details ] [ __readonly__ <prof-name> [ <rev> ] [ <peer_address> ] [ <peer_sync_status> ] [ <merge_flags> ] [ <remote_status> ] [ <remote_error> ] [ <cmd> ] + ]
```

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information                  |
| switch-profile          | Show switch-profile                              |
| <i>profile-name</i>     | (Optional) switch-profile name                   |
| peer                    | peer info  |
| <i>dest-ip</i>          | (Optional) IPv4 address (A.B.C.D) of destination |
| details                 | (Optional) information in detail                 |
| <i>__readonly__</i>     | (Optional)                                       |
| <i>prof-name</i>        | (Optional)                                       |
| <i>rev</i>              | (Optional)                                       |
| <i>peer_address</i>     | (Optional)                                       |
| <i>peer_sync_status</i> | (Optional)                                       |
| <i>merge_flags</i>      | (Optional)                                       |
| <i>remote_status</i>    | (Optional)                                       |
| <i>remote_error</i>     | (Optional)                                       |
| <i>cmd</i>              | (Optional)                                       |

## Command Mode

- /exec



## show switch-profile status

```
show switch-profile [ <profile-name> ] status [ __readonly__ <prof-name> <start_usec> <start_time>
<end_usec> <end_time> <revision_number> <session_type> [ <session_subtype> ] <peer_triggered>
<profile_status> <local_status> <local_error> [ <peer_address> ] [ <peer_sync_status> ] [ <merge_flags> ]
[ <remote_status> ] [ <remote_error> ] ]
```

### Syntax Description

|                         |                                 |
|-------------------------|---------------------------------|
| show                    | Show running system information |
| switch-profile          | Show switch-profile             |
| status                  | Switch-profile sync status      |
| <i>profile-name</i>     | (Optional) switch-profile name  |
| <i>__readonly__</i>     | (Optional)                      |
| <i>prof-name</i>        | (Optional)                      |
| <i>start_usec</i>       | (Optional)                      |
| <i>start_time</i>       | (Optional)                      |
| <i>end_usec</i>         | (Optional)                      |
| <i>end_time</i>         | (Optional)                      |
| <i>revision_number</i>  | (Optional)                      |
| <i>session_type</i>     | (Optional)                      |
| <i>session_subtype</i>  | (Optional)                      |
| <i>peer_triggered</i>   | (Optional)                      |
| <i>profile_status</i>   | (Optional)                      |
| <i>local_status</i>     | (Optional)                      |
| <i>local_error</i>      | (Optional)                      |
| <i>peer_address</i>     | (Optional)                      |
| <i>peer_sync_status</i> | (Optional)                      |
| <i>merge_flags</i>      | (Optional)                      |
| <i>remote_status</i>    | (Optional)                      |
| <i>remote_error</i>     | (Optional)                      |

### Command Mode

- /exec

# show switch-scope controller

show switch-scope controller

## Syntax Description

|              |                                 |
|--------------|---------------------------------|
| show         | Show running system information |
| switch-scope | switch-scope                    |
| controller   | Controller command              |

## Command Mode

- /exec

# show switching-mode

```
show switching-mode [ __readonly__ { TABLE_switching_mode <switching-mode-desc> } {
TABLE_swtdmoduinfo <moduleno> <opmode> } ]
```

## Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information                 |
| switching-mode             | Show the operating switching mode               |
| __readonly__               | (Optional)                                      |
| TABLE_switching_mode       | (Optional) the xml switching_mode configuration |
| <i>switching-mode-desc</i> | (Optional) switching mode description           |
| TABLE_swtdmoduinfo         | (Optional) the xml switching module information |
| <i>moduleno</i>            | (Optional) Module Number                        |
| <i>opmode</i>              | (Optional) Operation Mode                       |

## Command Mode

- /exec

# show switching-mode fabric-speed

```
show switching-mode fabric-speed [ __readonly__ TABLE_switching_mode_fabric_speed <fabric-speed-desc> ]
```

## Syntax Description

|                                   |  |
|-----------------------------------|--|
| show                              | Show running system information                              |
| switching-mode                    | Show the operating switching mode                            |
| fabric-speed                      | Show the fabric speed  |
| __readonly__                      | (Optional)   |
| TABLE_switching_mode_fabric_speed | (Optional) the xml switching_mode_fabric_speed configuration |
| <i>fabric-speed-desc</i>          | (Optional) fabric speed description                          |

## Command Mode

- /exec

# show system acl

```
show system acl [ __readonly__ TABLE_system_acl <protocol> [ TABLE_type <type> <acl_name> <inout> ] ]
```

## Syntax Description

|                  |                                 |
|------------------|---------------------------------|
| show             | Show running system information |
| system           | System management commands      |
| acl              | ACL parameters                  |
| __readonly__     | (Optional)                      |
| TABLE_system_acl | (Optional)                      |
| <i>protocol</i>  | (Optional) protocol             |
| TABLE_type       | (Optional)                      |
| <i>type</i>      | (Optional) type                 |
| <i>acl_name</i>  | (Optional)                      |
| <i>inout</i>     | (Optional) Traffic direction    |

## Command Mode

- /exec

# show system auto-collect tech-support

show system auto-collect tech-support [ *\_\_readonly\_\_* <result> ]

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                                  |
| system              | System management commands                                       |
| auto-collect        | Auto collection of information                                   |
| tech-support        | Collect tech-support in case of service causing supervisor reset |
| <i>__readonly__</i> | (Optional)   |
| <i>result</i>       | (Optional) show tech collection enable status                    |

## Command Mode

- /exec

# show system boottime

```
show system boottime [ __readonly__ { TABLE_uptimeinf <slot> <starttime> <daysup> <hoursup>
<minutesup> <secondsup> } ]
```

## Syntax Description

|                  |   |
|------------------|---|
| show             | Show running system information           |
| system           | System-related show commands              |
| boottime         | Show platform boot time of each module    |
| __readonly__     | (Optional)                                |
| TABLE_uptimeinf  | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>slot</i>      | (Optional) Slot                           |
| <i>starttime</i> | (Optional) Start Time                     |
| <i>daysup</i>    | (Optional) Days Up                        |
| <i>hoursup</i>   | (Optional) Hours Up                       |
| <i>minutesup</i> | (Optional) Minutes Up                     |
| <i>secondsup</i> | (Optional) Seconds Up                     |

## Command Mode

- /exec



# show system config reload-pending

```
show system config reload-pending [ __readonly__ { TABLE_reload_pending <cmds_list> } ]
```

## Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information         |
| system               | System-related show commands            |
| config               | Config commands which require reload    |
| reload-pending       | Commands which require a reload         |
| __readonly__         | (Optional)                              |
| TABLE_reload_pending | (Optional) reload pending commands list |
| cmds_list            | (Optional) cmds_list                    |

## Command Mode

- /exec

# show system cores

show system cores [ \_\_readonly\_\_ { <content> } ]

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| system         | System-related show commands    |
| cores          | Displays core transfer option   |
| __readonly__   | (Optional)                      |
| <i>content</i> | (Optional) Core transfer option |

## Command Mode

- /exec

# show system default switchport

```
show system default switchport [ __readonly__ <sys_def_port_state> <sys_def_trunk_mode>
<sys_def_link_fail_syslog_level> <sys_def_tx_credit_queue_type> ]
```

## Syntax Description

|                                       |   |
|---------------------------------------|---|
| show                                  | Show running system information                             |
| <i>__readonly__</i>                   | (Optional) read only  |
| <i>sys_def_port_state</i>             | (Optional) System default port state                        |
| <i>sys_def_trunk_mode</i>             | (Optional) System default trunk mode                        |
| <i>sys_def_link_fail_syslog_level</i> | (Optional) System default link failure syslog logging level |
| <i>sys_def_tx_credit_queue_type</i>   | (Optional) System default tx credit queue type              |
| system                                | System-related show commands                                |
| default                               | Show system default values                                  |
| switchport                            | Show default values for switchport attributes               |

## Command Mode

- /exec

# show system error-id

show system error-id { list | <i0> } [ \_\_readonly\_\_ <errorid> <facility> <desc> ]

## Syntax Description

|                     |                                       |
|---------------------|---------------------------------------|
| show                | Show running system information       |
| system              | System-related show commands          |
| error-id            | Show description about errors         |
| list                | Show description about all error IDs  |
| <i>i0</i>           | Show description about specific error |
| <i>__readonly__</i> | (Optional)                            |
| <i>errorid</i>      | (Optional)                            |
| <i>facility</i>     | (Optional)                            |
| <i>desc</i>         | (Optional)                            |

## Command Mode

- /exec

## show system exception-info

```
show system exception-info [ __readonly__ { TABLE_exception { <second> <panic_data> <register_data>
<stack_pointer> <stack_depth> <stack_timestamp> <stacl_magic> <hdr_length> <stack_data> <pre_usec>
<pre_sec> <int_t> <reason> <service> <version> } } ]
```

### Syntax Description

|                        |                                     |
|------------------------|-------------------------------------|
| show                   | Show running system information     |
| system                 | System-related show commands        |
| exception-info         | Show last exception log information |
| <i>__readonly__</i>    | (Optional)                          |
| TABLE_exception        | (Optional)                          |
| <i>second</i>          | (Optional) Time of exception        |
| <i>panic_data</i>      | (Optional) Panic information dump   |
| <i>register_data</i>   | (Optional) CPU register dump        |
| <i>stack_pointer</i>   | (Optional) Current Stack-pointer    |
| <i>stack_depth</i>     | (Optional) Current Stack-depth      |
| <i>stack_timestamp</i> | (Optional) Stack dump timestamp     |
| <i>stacl_magic</i>     | (Optional) Stack Magic              |
| <i>hdr_length</i>      | (Optional) Hdr length               |
| <i>stack_data</i>      | (Optional) Stack Dump               |
| <i>pre_usec</i>        | (Optional)                          |
| <i>pre_sec</i>         | (Optional)                          |
| <i>int_t</i>           | (Optional)                          |
| <i>reason</i>          | (Optional) Reason                   |
| <i>service</i>         | (Optional) Service                  |
| <i>version</i>         | (Optional) Version                  |

### Command Mode

- /exec

# show system fast-reload stabilization-timer

show system fast-reload stabilization-timer [ \_\_readonly\_\_ { <timer\_val> } ]

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information  |
| system              | System management commands   |
| fast-reload         | fast-reload software   |
| stabilization-timer | Network stabilization time in seconds before fast-reload can be executed after the previous reload |
| __readonly__        | (Optional) Read Only   |
| <i>timer_val</i>    | (Optional) XML attribute for timer value   |

## Command Mode

- /exec

# show system image-verification

```
show system image-verification [ __readonly__ { [ TABLE_system_image_verification <Str1> ] } ]
```

## Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information         |
| system                          | Show system information                 |
| image-verification              | image signature verification status     |
| __readonly__                    | (Optional)                              |
| TABLE_system_image_verification | (Optional) table for image verification |
| <i>Str1</i>                     | (Optional) status of image verification |

## Command Mode

- /exec

## show system inband queuing statistics

```
show system inband queuing statistics [ __readonly__ { TABLE_sys_inband_queue_stats <inbandpktunmap>
<inbandpktbpdqueue> <inbandpktmapq0> <inbandpktmapq1> <klmpktmapbpdu> <klmpktmaparp>
<klmpktmapq0> <klmpktmapq1> <klmpktmapveobc> <queuname> [ TABLE_bpdu_stats { <pmrcvpkts>
<pmdropkts> <pmcongested> <rcvbuf> <sndbuf> <pmnodrop> } ] [ TABLE_q_stats { <indexstat>
<ipmrcvpkts> <ipmdropkts> <ipmcongested> <ircvbuf> <isndbuf> <ipmnodrop> } } ]
```

### Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information           |
| system                       | System-related show commands              |
| inband                       | Inband Commands                           |
| queuing                      | Inband Queuing commands                   |
| statistics                   | Inband statistics                         |
| <i>__readonly__</i>          | (Optional)                                |
| TABLE_sys_inband_queue_stats | (Optional) System Inband Statistics       |
| <i>inbandpktunmap</i>        | (Optional) Inband packets unmapped        |
| <i>inbandpktbpdqueue</i>     | (Optional) Inband packets mapped to bpdu  |
| <i>inbandpktmapq0</i>        | (Optional) Inband packets mapped to q0    |
| <i>inbandpktmapq1</i>        | (Optional) Inband packets mapped to q1    |
| <i>klmpktmapbpdu</i>         | (Optional) In KLM packets mapped to bpdu  |
| <i>klmpktmaparp</i>          | (Optional) In KLM packets mapped to arp   |
| <i>klmpktmapq0</i>           | (Optional) In KLM packets mapped to q0    |
| <i>klmpktmapq1</i>           | (Optional) In KLM packets mapped to q1    |
| <i>klmpktmapveobc</i>        | (Optional) In KLM packets mapped to veobc |
| <i>queuname</i>              | (Optional) Inband queue name              |
| TABLE_bpdu_stats             | (Optional) BPDU Statistics                |
| <i>pmrcvpkts</i>             | (Optional) BPDU Receive Packets           |
| <i>pmdropkts</i>             | (Optional) BPDU Drop Packets              |
| <i>pmcongested</i>           | (Optional) BPDU Congested                 |
| <i>rcvbuf</i>                | (Optional) BPDU Receive Buffer            |
| <i>sndbuf</i>                | (Optional) BPDU Send Buffer               |



|                     |                                  |
|---------------------|----------------------------------|
| <i>pmnoproduct</i>  | (Optional) BPDU No drop          |
| TABLE_q_stats       | (Optional) Queue Statistics      |
| <i>indexstat</i>    | (Optional) Queue Index           |
| <i>ipmrecvpkts</i>  | (Optional) Queue receive packets |
| <i>ipmdroppkts</i>  | (Optional) Queue drop packets    |
| <i>ipmcongested</i> | (Optional) Queue Congested       |
| <i>ircvbuf</i>      | (Optional) Queue receive buffer  |
| <i>isndbuf</i>      | (Optional) Queue send buffer     |
| <i>ipmno drop</i>   | (Optional) Queue no drop         |

**Command Mode**

- /exec

## show system inband queuing status

```
show system inband queuing status [ __readonly__ [ { TABLE_sys_inband_queue_status <pminbandalgo>
<pminbandweigh0> <pminbandweigh1> <pminbandweigh2> } ] ]
```

### Syntax Description

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| show                                 | Show running system information      |
| system                               | System-related show commands         |
| inband                               | Inband Commands                      |
| queuing                              | Inband Queuing commands              |
| status                               | Selective Packet Discard Information |
| <i>__readonly__</i>                  | (Optional)                           |
| <i>TABLE_sys_inband_queue_status</i> | (Optional) System Inband Status      |
| <i>pminbandalgo</i>                  | (Optional) Queuing Algorithm         |
| <i>pminbandweigh0</i>                | (Optional) BPDU Weight               |
| <i>pminbandweigh1</i>                | (Optional) Q0 Weight                 |
| <i>pminbandweigh2</i>                | (Optional) Q1 Weight                 |

### Command Mode

- /exec

# show system login

```
show system login [ __readonly__ [ [ <acc_list> ] [ <attempts> ] ] [ <within> <block_for> <time> ] [ <fail_count> ] [ <switch_mode> ] ]
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information                 |
| system              | System-related show commands                    |
| login               | Display Secure Login Configurations and State   |
| <i>__readonly__</i> | (Optional)                                      |
| <i>acc_list</i>     | (Optional) Appiled ACL's                        |
| <i>attempts</i>     | (Optional) Number of login failures             |
| <i>within</i>       | (Optional) Number of login failures within time |
| <i>block_for</i>    | (Optional) Login disabled for time              |
| <i>time</i>         | (Optional) Time remaining to re-enable login    |
| <i>fail_count</i>   | (Optional) Login failure count                  |
| <i>switch_mode</i>  | (Optional) Mode of operation                    |

## Command Mode

- /exec

# show system login failures

```
show system login failures [ __readonly__ [ { TABLE_loginStats <username> <port> <remote_addr>
<app_name> <time> } ] ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                    |
| system              | System-related show commands                       |
| login               | Secure Login                                       |
| failures            | Display Login failures in the current watch period |
| <i>__readonly__</i> | (Optional)   |
| TABLE_loginStats    | (Optional)   |
| <i>username</i>     | (Optional) User name                               |
| <i>port</i>         | (Optional) Login port number                       |
| <i>remote_addr</i>  | (Optional) Remote address                          |
| <i>app_name</i>     | (Optional) Application name                        |
| <i>time</i>         | (Optional) Login time                              |

## Command Mode

- /exec

# show system memory-thresholds

```
show system memory-thresholds [ __readonly__ <critical_mem_threshold> <severe_mem_threshold>
<minor_mem_threshold> ]
```

## Syntax Description

|                               |   |
|-------------------------------|---|
| show                          | Show running system information             |
| <i>__readonly__</i>           | (Optional)                                  |
| <i>critical_mem_threshold</i> | (Optional) Critical System Memory Threshold |
| <i>severe_mem_threshold</i>   | (Optional) Severe System Memory Threshold   |
| <i>minor_mem_threshold</i>    | (Optional) Minor System Memory Threshold    |
| system                        | System management commands                  |
| memory-thresholds             | Set memory thresholds on the card           |

## Command Mode

- /exec

# show system mode

```
show system mode [ __readonly__ <system_mode> [ <timer_state> ] ]
```

## Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| system              | System configuration commands   |
| mode                | Show system mode                |
| <i>__readonly__</i> | (Optional)                      |
| <i>system_mode</i>  | (Optional) system mode          |
| <i>timer_state</i>  | (Optional) timer state          |

## Command Mode

- /exec

# show system poap

```
show system poap [ __readonly__ { [ TABLE_show_system_poap <Str1> ] } ]
```

## Syntax Description

|                        |                                  |
|------------------------|----------------------------------|
| show                   | Show running system information  |
| system                 | Show system information          |
| poap                   | Show information related to POAP |
| __readonly__           | (Optional)                       |
| TABLE_show_system_poap | (Optional) table for poap        |
| <i>Str1</i>            | (Optional) status of poap        |

## Command Mode

- /exec

## show system pss shrink status

```
show system pss shrink status [ details ] [ __readonly__ { [ <summary> ] [ TABLE_per_vdc <vdc_id> [
TABLE_detail_events <service> <vdc> <event> ] ] [ TABLE_events <service> <vdc> <event> ] } ]
```

### Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                    |
| system              | System-related show commands                       |
| pss                 | Displays last pss shrink status                    |
| shrink              | Displays last pss shrink status                    |
| status              | Displays last pss shrink status                    |
| details             | (Optional) Displays last pss shrink status details |
| <i>__readonly__</i> | (Optional)   |
| <i>summary</i>      | (Optional) PSS shrink summary                      |
| TABLE_per_vdc       | (Optional)   |
| <i>vdc_id</i>       | (Optional) VDC id                                  |
| TABLE_detail_events | (Optional) PSS shrink events                       |
| <i>service</i>      | (Optional) Service name                            |
| <i>vdc</i>          | (Optional) VDC number                              |
| <i>event</i>        | (Optional) PSS evnets                              |
| TABLE_events        | (Optional) PSS shrink events                       |
| <i>service</i>      | (Optional) Service name                            |
| <i>vdc</i>          | (Optional) VDC number                              |
| <i>event</i>        | (Optional) PSS evnets                              |

### Command Mode

- /exec



## show system redundancy ha status

```
show system redundancy ha status [ __readonly__ { [ TABLE_ha_status <vdc_id> <this_sup_internal_state>
<other_sup_internal_state> ] } ]
```

### Syntax Description

|                                 |                                    |
|---------------------------------|------------------------------------|
| show                            | Show running system information    |
| system                          | System-related show commands       |
| redundancy                      | redundancy status                  |
| ha                              | vdc redundancy status              |
| status                          | all vdc redundancy status          |
| <i>__readonly__</i>             | (Optional)                         |
| <i>TABLE_ha_status</i>          | (Optional) HA status for all vdcs  |
| <i>vdc_id</i>                   | (Optional) vdc id                  |
| <i>this_sup_internal_state</i>  | (Optional) This Supervisor State   |
| <i>other_sup_internal_state</i> | (Optional) Remote Supervisor State |

### Command Mode

- /exec

## show system redundancy status

```
show system redundancy status [ __readonly__ { <rdn_mode_admin> <rdn_mode_oper> <this_sup>
<this_sup_rdn_state> <this_sup_sup_state> <this_sup_internal_state> [ <other_sup> ] [ <other_sup_rdn_state>
] [ <other_sup_sup_state> ] [ <other_sup_internal_state> } } ]
```

### Syntax Description

|                                 |  |
|---------------------------------|--|
| show                            | Show running system information        |
| system                          | System-related show commands           |
| redundancy                      | redundancy status                      |
| status                          | Current redundancy status              |
| <i>__readonly__</i>             | (Optional) readonly                    |
| <i>rdn_mode_admin</i>           | (Optional) Redundancy Mode Admin       |
| <i>rdn_mode_oper</i>            | (Optional) Redundancy Mode Operational |
| <i>this_sup</i>                 | (Optional) This Supervisor             |
| <i>this_sup_rdn_state</i>       | (Optional) Redundancy State            |
| <i>this_sup_sup_state</i>       | (Optional) Supervisor State            |
| <i>this_sup_internal_state</i>  | (Optional) Supervisor State            |
| <i>other_sup</i>                | (Optional) Other Supervisor            |
| <i>other_sup_sup_state</i>      | (Optional) Supervisor State            |
| <i>other_sup_rdn_state</i>      | (Optional) Redundancy tate             |
| <i>other_sup_internal_state</i> | (Optional) Supervisor State            |

### Command Mode

- /exec

# show system reset-reason

```
show system reset-reason <s0> <santa-cruz-range> [ __readonly__ { TABLE_xbarreason <slot> { TABLE_rr
<time> <reason> <service> <version> } } ]
```

## Syntax Description

|                         |                                     |
|-------------------------|-------------------------------------|
| show                    | Show running system information     |
| system                  | System-related show commands        |
| reset-reason            | Show last reset reason              |
| <i>s0</i>               | Show xbar module reset reason       |
| <i>santa-cruz-range</i> | please enter the xbar module number |
| <i>__readonly__</i>     | (Optional)                          |
| <i>TABLE_xbarreason</i> | (Optional) Reset reason info        |
| <i>slot</i>             | (Optional) slot                     |
| <i>TABLE_rr</i>         | (Optional) reset reason             |
| <i>time</i>             | (Optional) time                     |
| <i>reason</i>           | (Optional) reset reason             |
| <i>service</i>          | (Optional) service name             |
| <i>version</i>          | (Optional) version                  |

## Command Mode

- /exec

# show system reset-reason

```
show system reset-reason [ __readonly__ { TABLE_reason <slot> { TABLE_rr <time> <reason> <service>
<version> } } ]
```

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| system         | System-related show commands    |
| reset-reason   | Show last reset reason          |
| __readonly__   | (Optional)                      |
| TABLE_reason   | (Optional) Reset reason info    |
| <i>slot</i>    | (Optional) slot                 |
| TABLE_rr       | (Optional) reset reason         |
| <i>time</i>    | (Optional) time                 |
| <i>reason</i>  | (Optional) reset reason         |
| <i>service</i> | (Optional) service name         |
| <i>version</i> | (Optional) version              |

## Command Mode

- /exec

# show system reset-reason module

```
show system reset-reason module <module> [ __readonly__ { TABLE_reason <slot> { TABLE_rr <time>
<reason> <service> <version> } } ]
```

## Syntax Description

|                     |                                   |
|---------------------|-----------------------------------|
| show                | Show running system information   |
| system              | System-related show commands      |
| reset-reason        | Show last reset reason            |
| module              | Show per module reset-reason code |
| <i>module</i>       | please enter module number        |
| <i>__readonly__</i> | (Optional)                        |
| TABLE_reason        | (Optional) Reset reason info      |
| <i>slot</i>         | (Optional) slot                   |
| TABLE_rr            | (Optional) reset reason           |
| <i>time</i>         | (Optional) time                   |
| <i>reason</i>       | (Optional) reset reason           |
| <i>service</i>      | (Optional) service name           |
| <i>version</i>      | (Optional) version                |

## Command Mode

- /exec

## show system resources

```
show system resources [ __readonly__ { [ <load_avg_1min> ] [ <load_avg_5min> ] [ <load_avg_15min> ]
[ <processes_total> ] [ <processes_running> ] [ <cpu_state_user> ] [ <cpu_state_kernel> ] [ <cpu_state_idle>
] [ TABLE_cpu_usage <cpuid> <user> <kernel> <idle> ] [ <memory_usage_total> ] [ <memory_usage_used>
] [ <memory_usage_free> ] [ <current_memory_status> ] } ]
```

### Syntax Description

|                              |                                      |
|------------------------------|--------------------------------------|
| show                         | Show running system information      |
| system                       | System-related show commands         |
| resources                    | Show system resources                |
| <i>__readonly__</i>          | (Optional)                           |
| TABLE_cpu_usage              | (Optional) All Cpu Usage Information |
| <i>load_avg_1min</i>         | (Optional) Load Average 1 Min        |
| <i>load_avg_5min</i>         | (Optional) Load Average 5 Min        |
| <i>load_avg_15min</i>        | (Optional) Load Average 15 Min       |
| <i>processes_total</i>       | (Optional) Total processes           |
| <i>processes_running</i>     | (Optional) Running Processes         |
| <i>cpu_state_user</i>        | (Optional) CPU State User            |
| <i>cpu_state_kernel</i>      | (Optional) CPU State Kernel          |
| <i>cpu_state_idle</i>        | (Optional) CPU State Idle            |
| <i>cpuid</i>                 | (Optional) CPU id                    |
| <i>user</i>                  | (Optional) user time                 |
| <i>kernel</i>                | (Optional) kernel time               |
| <i>idle</i>                  | (Optional) idle time                 |
| <i>memory_usage_total</i>    | (Optional) Memory Usage Total        |
| <i>memory_usage_used</i>     | (Optional) Memory Usage Used         |
| <i>memory_usage_free</i>     | (Optional) Memory Usage Free         |
| <i>current_memory_status</i> | (Optional) Current Memory Status     |

### Command Mode

- /exec

## show system resources all-modules

```
show system resources all-modules [ __readonly__ { [ <load_avg_1min> ] [ <load_avg_5min> ] [
<load_avg_15min> ] [ <processes_total> ] [ <processes_running> ] [ <cpu_state_user> ] [ <cpu_state_kernel>
] [ <cpu_state_idle> ] [ TABLE_cpu_usage <cpuid> <user> <kernel> <idle> ] [ <memory_usage_total> ] [
<memory_usage_used> ] [ <memory_usage_free> ] [ <current_memory_status> ] } ]
```

### Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                 |
| system                | System-related show commands                    |
| resources             | Show system resources                           |
| all-modules           | Show system resources for all available modules |
| __readonly__          | (Optional)                                      |
| TABLE_cpu_usage       | (Optional) All Cpu Usage Information            |
| load_avg_1min         | (Optional) Load Average 1 Min                   |
| load_avg_5min         | (Optional) Load Average 5 Min                   |
| load_avg_15min        | (Optional) Load Average 15 Min                  |
| processes_total       | (Optional) Total processes                      |
| processes_running     | (Optional) Running Processes                    |
| cpu_state_user        | (Optional) CPU State User                       |
| cpu_state_kernel      | (Optional) CPU State Kernel                     |
| cpu_state_idle        | (Optional) CPU State Idle                       |
| cpuid                 | (Optional) CPU id                               |
| user                  | (Optional) user time                            |
| kernel                | (Optional) kernel time                          |
| idle                  | (Optional) idle time                            |
| memory_usage_total    | (Optional) Memory Usage Total                   |
| memory_usage_used     | (Optional) Memory Usage Used                    |
| memory_usage_free     | (Optional) Memory Usage Free                    |
| current_memory_status | (Optional) Current Memory Status                |

### Command Mode

- /exec



# show system routing mode

```
show system routing mode [ __readonly__ TABLE_system_routing_mode { [ <configured-sys-routing-mode>
] [ <applied-sys-routing-mode> ] [ <svi-hardware-flood-mode> ] [ <routing-perf-mode> ] [
<mrouting-perf-mode> ] } ]
```

## Syntax Description

|                                    |  |
|------------------------------------|--|
| show                               | Show running system information                                |
| system                             | Show system information  |
| routing                            | Show routing related information                               |
| mode                               | Show mode related information                                  |
| __readonly__                       | (Optional)   |
| TABLE_system_routing_mode          | (Optional) the xml system_routing_mode configuration           |
| <i>configured-sys-routing-mode</i> | (Optional) Configured system routing mode description          |
| <i>applied-sys-routing-mode</i>    | (Optional) Applied system routing mode description             |
| <i>svi-hardware-flood-mode</i>     | (Optional) Configured SVI hardware flood mode description      |
| <i>routing-perf-mode</i>           | (Optional) Applied System Routing Performance Mode description |
| <i>mrouting-perf-mode</i>          | (Optional) Applied System Mrouting Performance Mode            |

## Command Mode

- /exec

# show system security

```
show system security [ common-criteria ] [ __readonly__ { [ <common_criteria_o_status> ] } ]
```

## Syntax Description

|                                 |  |
|---------------------------------|--|
| show                            | Show running system information                                |
| system                          | System Management commands                                     |
| security                        | Security Management commands                                   |
| common-criteria                 | (Optional) Show if common-criteria mode is enabled or disabled |
| __readonly__                    | (Optional)   |
| <i>common_criteria_o_status</i> | (Optional) operational status of common-criteria               |

## Command Mode

- /exec

# show system simulate fan-presence

show system simulate fan-presence

## Syntax Description

|              |                                 |
|--------------|---------------------------------|
| show         | Show running system information |
| system       | System management commands      |
| simulate     | Simulate Fan Presence           |
| fan-presence | Simulate Fan Presence           |

## Command Mode

- /exec

# show system standby manual-boot

show system standby manual-boot [ \_\_readonly\_\_ { <content> } ]

## Syntax Description

|                |   |
|----------------|---|
| show           | Show running system information                       |
| system         | System-related show commands                          |
| standby        | Displays system standby manual boot option            |
| manual-boot    | Displays system standby manual boot option            |
| __readonly__   | (Optional)  |
| <i>content</i> | (Optional) Displays system standby manual boot option |

## Command Mode

- /exec

# show system switch-mode

show system switch-mode [ *\_\_readonly\_\_* <*op\_mode*> ]

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show running system information             |
| system              | System-related show commands                |
| switch-mode         | Show current operational mode of the switch |
| <i>__readonly__</i> | (Optional)                                  |
| <i>op_mode</i>      | (Optional) Operational Mode                 |

## Command Mode

- /exec

## show system uptime

```
show system uptime [ __readonly__ { <sys_st_time> <sys_up_days> <sys_up_hrs> <sys_up_mins>
<sys_up_secs> <kn_up_days> <kn_up_hrs> <kn_up_mins> <kn_up_secs> [ <as_up_days> ] [ <as_up_hrs>
] [ <as_up_mins> ] [ <as_up_secs> ] } ]
```

### Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                  |
| system              | System-related show commands                     |
| uptime              | Show how long the system has been up and running |
| <i>__readonly__</i> | (Optional) readonly                              |
| <i>sys_st_time</i>  | (Optional) System Start Time                     |
| <i>sys_up_days</i>  | (Optional) System Uptime Days                    |
| <i>sys_up_hrs</i>   | (Optional) System Uptime Hours                   |
| <i>sys_up_mins</i>  | (Optional) System Uptime Minutes                 |
| <i>sys_up_secs</i>  | (Optional) System Uptime Seconds                 |
| <i>kn_up_days</i>   | (Optional) Kernel Uptime Days                    |
| <i>kn_up_hrs</i>    | (Optional) Kernel Uptime Hours                   |
| <i>kn_up_mins</i>   | (Optional) Kernel Uptime Minutes                 |
| <i>kn_up_secs</i>   | (Optional) Kernel Uptime Seconds                 |
| <i>as_up_days</i>   | (Optional) Active Sup Uptime Days                |
| <i>as_up_hrs</i>    | (Optional) Active Sup Uptime Hours               |
| <i>as_up_mins</i>   | (Optional) Active Sup Uptime Minutes             |
| <i>as_up_secs</i>   | (Optional) Active Sup Uptime Seconds             |

### Command Mode

- /exec

# show system verify bios flash

```
show system verify bios { flash <i0> [ module <module> ] | protection <i1> [ module <module1> ] } [
__readonly__ { <return> <verify_result> <protection_status> } ]
```

## Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information        |
| system                   | System-related show commands           |
| verify                   | Verify commands                        |
| bios                     | Verify bios                            |
| flash                    | verify bios flash or protection status |
| <i>i0</i>                | Select primary or alternate flash      |
| module                   | (Optional) Module number               |
| <i>module</i>            | (Optional) Enter module number         |
| protection               | verify bios flash or protection status |
| <i>i1</i>                | Select primary or alternate flash      |
| module                   | (Optional) Module number               |
| <i>module1</i>           | (Optional) Enter module number         |
| <i>__readonly__</i>      | (Optional)                             |
| <i>return</i>            | (Optional)                             |
| <i>verify_result</i>     | (Optional)                             |
| <i>protection_status</i> | (Optional)                             |

## Command Mode

- /exec

# show system vlan reserved

```
show system vlan reserved [ __readonly__ { TABLE_vlan <current_reserved_vlan_start>
<current_reserved_vlan_end> [ <future_reserved_vlan_start> ] [ <future_reserved_vlan_end> ] } ]
```

## Syntax Description

|                                    |   |
|------------------------------------|---|
| show                               | Show running system information                       |
| system                             | system wide configuration                             |
| vlan                               | VLAN status   |
| reserved                           | Show system VLAN allocation                           |
| <i>__readonly__</i>                | (Optional) Read Only                                  |
| <i>TABLE_vlan</i>                  | (Optional)  |
| <i>current_reserved_vlan_start</i> | (Optional) System current running reserved vlan start |
| <i>current_reserved_vlan_end</i>   | (Optional) System current running reserved vlan end   |
| <i>future_reserved_vlan_start</i>  | (Optional) System future running reserved vlan start  |
| <i>future_reserved_vlan_end</i>    | (Optional) System future running reserved vlan end    |

## Command Mode

- /exec





## T Show Commands

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# show table-map

```
show table-map [ <imap-name> | <default-omap-enum-name> ] [ __readonly__ { [ TABLE_omap <imap-name>
[ <desc> ] [ <def-value> ] [ <def-copy> ] [ <def-ignore> ] [ TABLE_list <frm-list> <to-val> ] ] } ]
```

## Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information                              |
| table-map                     | Table maps   |
| TABLE_omap                    | (Optional) all omap xml sessions                             |
| <i>imap-name</i>              | (Optional) Show a particular table map                       |
| <i>default-omap-enum-name</i> | (Optional)   |
| <code>__readonly__</code>     | (Optional)   |
| <i>desc</i>                   | (Optional) Description string                                |
| <i>def-value</i>              | (Optional) Unspecified entries will default to this value    |
| <i>def-copy</i>               | (Optional) Map unspecified values to equivalent output value |
| <i>def-ignore</i>             | (Optional) Ignore unspecified values                         |
| TABLE_list                    | (Optional) table map lists                                   |
| <i>frm-list</i>               | (Optional) Original list of values which are to be mapped    |
| <i>to-val</i>                 | (Optional) To value  |

## Command Mode

- /exec

## show tacacs-server

```
show tacacs-server [ __readonly__ [ <global_secretKey> ] { <global_timeout> <global_deadtime> } [
<global_source_intf> ] [ <global_idle_time> ] { [ <global_testUsername> ] [ <global_testPassword> ] } {
<server_count> } [ TABLE_server <server_ip> <port> [ <secretKey> ] [ <timeout> ] ] [ { <host0>
<tacacs_port> <shared_key> <idle_time><test_username> <test_password> } + ] ]
```

### Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information                                   |
| tacacs-server              | Show TACACS+ configuration information                            |
| <i>__readonly__</i>        | (Optional)  |
| <i>global_secretKey</i>    | (Optional) Global shared secret                                   |
| <i>global_timeout</i>      | (Optional) Global timeout for tacacs                              |
| <i>global_deadtime</i>     | (Optional) Global deadtime  |
| <i>global_source_intf</i>  | (Optional) Tacacs global source interface                         |
| <i>global_idle_time</i>    | (Optional) Tacacs global idle-time for server monitoring          |
| <i>global_testUsername</i> | (Optional) Username of global test parameters                     |
| <i>global_testPassword</i> | (Optional) Password of global test parameters                     |
| <i>server_count</i>        | (Optional) Total number of tacacs servers configured              |
| TABLE_server               | (Optional)  |
| <i>server_ip</i>           | (Optional) Ip address of the server                               |
| <i>port</i>                | (Optional) Port used for this server                              |
| <i>secretKey</i>           | (Optional) Shared secret between the server and the tacacs client |
| <i>timeout</i>             | (Optional) Timeout for this tacacs server                         |
| <i>host0</i>               | (Optional) DNS name or IP address                                 |
| <i>tacacs_port</i>         | (Optional) TACACS+ server port                                    |
| <i>shared_key</i>          | (Optional) TACACS+ shared secret                                  |
| <i>test_password</i>       | (Optional) User password in test packets                          |

### Command Mode

- /exec



## show tacacs-server

```
show tacacs-server { <host0> } [ __readonly__ { <host1> } ] [ <tac_port> ] [ <tac_shared_key> ] [ <time_out> ] [ <conn_type> ] [ <tac_idle_time> ] [ <test_user_name> ] <test_pwd> ]
```

### Syntax Description

|                            |  |
|----------------------------|--|
| <code>show</code>          | Show running system information                    |
| <code>tacacs-server</code> | Show TACACS+ configuration information             |
| <i>host0</i>               | DNS name or IP address                             |
| <code>__readonly__</code>  | (Optional)   |
| <i>host1</i>               | (Optional) DNS name or IP address                  |
| <i>tac_port</i>            | (Optional) TACACS+ server port                     |
| <i>tac_shared_key</i>      | (Optional) TACACS+ shared secret                   |
| <i>time_out</i>            | (Optional) radius server timeout                   |
| <i>conn_type</i>           | (Optional) TACACS+ connection type                 |
| <i>test_user_name</i>      | (Optional) User name in test packets               |
| <i>test_pwd</i>            | (Optional) User password in test packets           |
| <i>tac_idle_time</i>       | (Optional) Time interval for monitoring the server |

### Command Mode

- /exec

# show tacacs-server directed-request

show tacacs-server directed-request [ \_\_readonly\_\_ { <tacacs\_directedRequest\_status> } ]

## Syntax Description

|                                      |   |
|--------------------------------------|---|
| show                                 | Show running system information                     |
| tacacs-server                        | Show TACACS+ configuration information              |
| directed-request                     | Show directed server enable configuration           |
| __readonly__                         | (Optional)  |
| <i>tacacs_directedRequest_status</i> | (Optional) status of tacacs-server directed request |

## Command Mode

- /exec

## show tacacs-server groups

```
show tacacs-server groups [ <s0> ] [ __readonly__ [ <num_of_groups> ] [ TABLE_group <group_name> [
TABLE_server <server_ip> [ <port> ] ] [ <dead_time> ] [ <vrf_name> ] [ <source_interface> ] ] ]
```

### Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information   |
| tacacs-server           | Show TACACS+ configuration information  |
| groups                  | Show TACACS+ server group configuration information   |
| <i>s0</i>               | (Optional) TACACS+ server group name  |
| <i>__readonly__</i>     | (Optional)  |
| <i>num_of_groups</i>    | (Optional) number of groups   |
| TABLE_group             | (Optional)  |
| <i>group_name</i>       | (Optional) name of the group  |
| TABLE_server            | (Optional)  |
| <i>server_ip</i>        | (Optional) DNS name or IP address   |
| <i>port</i>             | (Optional) TACACS+ server port  |
| <i>dead_time</i>        | (Optional) Time interval for which the server is marked as dead before sending a test command |
| <i>vrf_name</i>         | (Optional) name of the vrf  |
| <i>source_interface</i> | (Optional) Interface Description  |

### Command Mode

- /exec

## show tacacs-server sorted

```
show tacacs-server sorted [ __readonly__ [ <global_secretKey> ] { <global_timeout> <global_deadtime> }
[ <global_source_intf> ] [ <global_idle_time> ] { [ <global_testUsername> ] [ <global_testPassword> ] } {
<server_count> } [ TABLE_server <server_ip> <port> [ <secretKey> ] [ <timeout> ] ] ]
```

### Syntax Description

|                            |   |
|----------------------------|---|
| show                       | Show running system information                                   |
| tacacs-server              | Show TACACS+ configuration information                            |
| sorted                     | Show TACACS+ servers sorted by server name                        |
| <i>__readonly__</i>        | (Optional)  |
| <i>global_secretKey</i>    | (Optional) Global shared secret                                   |
| <i>global_timeout</i>      | (Optional) Global timeout for tacacs                              |
| <i>global_deadtime</i>     | (Optional) Global deadtime  |
| <i>global_source_intf</i>  | (Optional) Tacacs global source interface                         |
| <i>global_idle_time</i>    | (Optional) Tacacs global idle-time for server monitoring          |
| <i>global_testUsername</i> | (Optional) Username of global test parameters                     |
| <i>global_testPassword</i> | (Optional) Password of global test parameters                     |
| <i>server_count</i>        | (Optional) Total number of tacacs servers configured              |
| TABLE_server               | (Optional)  |
| <i>server_ip</i>           | (Optional) Ip address of the server                               |
| <i>port</i>                | (Optional) Port used for this server                              |
| <i>secretKey</i>           | (Optional) Shared secret between the server and the tacacs client |
| <i>timeout</i>             | (Optional) Timeout for this tacacs server                         |

### Command Mode

- /exec

## show tacacs-server statistics

```
show tacacs-server statistics { <host0> } [ __readonly__ { <server_state> [ <clock_time> { monitoring_statistics
<time_in_pstate> <ndead> <tt_in_dstate> } ] } { auth_statistics <auth_failed_transactions>
<auth_succ_transactions> <auth_req_sent> <auth_req_timedout> <auth_resp_no_match>
<auth_resp_not_processed> <auth_resp_error> } { autho_statistics <autho_failed_transactions>
<autho_succ_transactions> <autho_req_sent> <autho_req_timedout> <autho_resp_no_match>
<autho_resp_not_processed> <autho_resp_error> } { acct_statistics <acct_failed_transactions>
<acct_succ_transactions> <acct_req_sent> <acct_req_timedout> <acct_resp_no_match>
<acct_resp_not_processed> <acct_resp_error> } ]
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information                                   |
| tacacs-server                   | Show TACACS+ configuration information                            |
| statistics                      | Show TACACS statistics  |
| <i>host0</i>                    | DNS name or IP address  |
| <i>__readonly__</i>             | (Optional)  |
| <i>server_state</i>             | (Optional) Show state of server                                   |
| <i>clock_time</i>               | (Optional) Show clock time in terms of hours, minutes and seconds |
| <i>monitoring_statistics</i>    | (Optional) Monitoring Statistics                                  |
| <i>time_in_pstate</i>           | (Optional) Time in previous state                                 |
| <i>ndead</i>                    | (Optional) Number of times dead                                   |
| <i>tt_in_dstate</i>             | (Optional) Total time in dead state                               |
| <i>auth_statistics</i>          | (Optional) Authentication Statistics                              |
| <i>autho_statistics</i>         | (Optional) Authorization Statistics                               |
| <i>acct_statistics</i>          | (Optional) Accounting Statistics                                  |
| <i>auth_failed_transactions</i> | (Optional) Authentication: Failed transactions                    |
| <i>auth_succ_transactions</i>   | (Optional) Authentication: Successful transactions                |
| <i>auth_req_sent</i>            | (Optional) Authentication: Requests sent                          |
| <i>auth_req_timedout</i>        | (Optional) Authentication: Requests timedout                      |
| <i>auth_resp_no_match</i>       | (Optional) Authentication: Responses with no matching requests    |
| <i>auth_resp_not_processed</i>  | (Optional) Authentication: Responses not processed                |
| <i>auth_resp_error</i>          | (Optional) Authentication: Responses containing errors            |

|                                  |   |
|----------------------------------|---|
| <i>autho_failed_transactions</i> | (Optional) Authorization: Failed transactions                 |
| <i>autho_succ_transactions</i>   | (Optional) Authorization: Successful transactions             |
| <i>autho_req_sent</i>            | (Optional) Authorization: Requests sent                       |
| <i>autho_req_timedout</i>        | (Optional) Authorization: Requests timedout                   |
| <i>autho_resp_no_match</i>       | (Optional) Authorization: Responses with no matching requests |
| <i>autho_resp_not_processed</i>  | (Optional) Authorization: Responses not processed             |
| <i>autho_resp_error</i>          | (Optional) Authorization: Responses containing errors         |
| <i>acct_failed_transactions</i>  | (Optional) Accounting: Failed transactions                    |
| <i>acct_succ_transactions</i>    | (Optional) Accounting: Successful transactions                |
| <i>acct_req_sent</i>             | (Optional) Accounting: Requests sent                          |
| <i>acct_req_timedout</i>         | (Optional) Accounting: Requests timedout                      |
| <i>acct_resp_no_match</i>        | (Optional) Accounting: Responses with no matching requests    |
| <i>acct_resp_not_processed</i>   | (Optional) Accounting: Responses not processed                |
| <i>acct_resp_error</i>           | (Optional) Accounting: Responses containing errors            |

**Command Mode**

- /exec

# show tech-support

show tech-support [ time-optimized ] [ forced ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information  |
| tech-support   | Gather information for troubleshooting                                     |
| time-optimized | (Optional) Gather tech-support faster, requires more memory and disk space |
| forced         | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                                  |

## Command Mode

- /exec

# show tech-support aaa

show tech-support aaa

## Syntax Description

|              |  |
|--------------|--|
| show         | show tech-support                      |
| tech-support | Gather information for troubleshooting |
| aaa          | Display aaa information                |

## Command Mode

- /exec



# show tech-support aclmgr

show tech-support aclmgr [ detail ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| aclmgr       | ACL commands                           |
| detail       | (Optional) Detailed Tech Support       |

## Command Mode

- /exec

# show tech-support aclmgr compressed

show tech-support aclmgr compressed <uri0> [ detail ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information          |
| tech-support | Gather information for troubleshooting   |
| aclmgr       | ACL commands                             |
| compressed   | Save compressed aclqos technical support |
| <i>uri0</i>  | Enter filename to store                  |
| detail       | (Optional) Detailed Tech Support         |

## Command Mode

- /exec

# show tech-support aclqos

show tech-support aclqos

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information               |
| tech-support | Gather information for troubleshooting        |
| aclqos       | Show information for aclqos technical support |

## Command Mode

- /exec

# show tech-support aclqos compressed

show tech-support aclqos compressed <uri0>

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information               |
| tech-support | Gather information for troubleshooting        |
| aclqos       | Show information for aclqos technical support |
| compressed   | Save compressed aclqos technical support      |
| <i>uri0</i>  | Enter filename to store                       |

## Command Mode

- /exec

# show tech-support adjmgr

show tech-support adjmgr [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| adjmgr       | Display Adjmgr information             |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec

# show tech-support all

show tech-support all [ space-optimized ] [ time-optimized ]

## Syntax Description

|                 |  |
|-----------------|--|
| show            | Show running system information  |
| tech-support    | Gather information for troubleshooting                                     |
| all             | Gather detailed information for troubleshooting                            |
| space-optimized | (Optional) Gather tech-support info. using less memory and disk space      |
| time-optimized  | (Optional) Gather tech-support faster, requires more memory and disk space |

## Command Mode

- /exec

# show tech-support all binary

show tech-support all binary <uri0>

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information   |
| tech-support | Gather information for troubleshooting  |
| all          | Gather detailed information for troubleshooting   |
| binary       | Gather tech support for all applications in binary format   |
| <i>uri0</i>  | Select destination filesystem to save the binary output (NOTE: The output file name will be automatically generated and cannot be chosen) |

## Command Mode

- /exec

# show tech-support analytics

show tech-support analytics [ brief ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| analytics    | Show Analytics tech-support information |
| brief        | (Optional) Brief information            |

## Command Mode

- /exec



# show tech-support analytics

show tech-support analytics [ brief ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| analytics    | Show Analytics tech-support information |
| brief        | (Optional) Brief information            |

## Command Mode

- /exec

# show tech-support arp

show tech-support arp [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| arp          | Display ARP information                |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec

# show tech-support ascii-cfg

show tech-support ascii-cfg

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                            |
| tech-support | Show information for technical support personnel           |
| ascii-cfg    | Show ascii-cfg information for technical support personnel |

## Command Mode

- /exec

# show tech-support assoc\_mgr

show tech-support assoc\_mgr

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                           |
| tech-support | Gather information for troubleshooting                    |
| assoc_mgr    | Gather detailed information for assoc_mgr troubleshooting |

## Command Mode

- /exec

# show tech-support backup

```
show tech-support { backup | flexlink }
```

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                                   |
| tech-support | Gather information for troubleshooting                            |
| backup       | Gather detailed information for Switchport Backup troubleshooting |
| flexlink     | Gather detailed information for Switchport Backup troubleshooting |

## Command Mode

- /exec

# show tech-support bfd

show tech-support bfd

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| bfd          | BFD commands                           |

## Command Mode

- /exec

# show tech-support bgp

show tech-support bgp [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| bgp          | Display BGP status and configuration   |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec

# show tech-support biosd

show tech-support biosd

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information              |
| tech-support | Gather information for troubleshooting       |
| biosd        | Gather bios install log for trouble shooting |

## Command Mode

- /exec



# show tech-support bloggerd-all

show tech-support bloggerd-all

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information   |
| tech-support | Gather information for troubleshooting                                    |
| bloggerd-all | Gather detailed information for bloggerd troubleshooting from ALL modules |

## Command Mode

- /exec

# show tech-support bloggerd

show tech-support bloggerd

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                          |
| tech-support | Gather information for troubleshooting                   |
| bloggerd     | Gather detailed information for bloggerd troubleshooting |

## Command Mode

- /exec

# show tech-support bootvar

show tech-support bootvar

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                         |
| tech-support | Gather information for troubleshooting                  |
| bootvar      | Gather detailed information for bootvar troubleshooting |

## Command Mode

- /exec

# show tech-support brief

show tech-support brief

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system summary information        |
| tech-support | Gather information for troubleshooting         |
| brief        | Gather summary information for troubleshooting |

## Command Mode

- /exec

# show tech-support callhome

show tech-support callhome

## Syntax Description

|              |  |
|--------------|--|
| show         | show tech-support                      |
| tech-support | Gather information for troubleshooting |
| callhome     | callhome troubleshooting information   |

## Command Mode

- /exec

# show tech-support cdp

show tech-support cdp

## Syntax Description

|              |   |
|--------------|---|
| show         | show running system information             |
| tech-support | Gather information for troubleshooting      |
| cdp          | Gather information for CDP trouble shooting |

## Command Mode

- /exec

# show tech-support cert-enroll

show tech-support cert-enroll

## Syntax Description

|              |  |
|--------------|--|
| show         | show commands                          |
| tech-support | Gather information for troubleshooting |
| cert-enroll  | Display certificates information       |

## Command Mode

- /exec

# show tech-support cfs

show tech-support cfs [ { commands | name <cfs-dyn-app-name> [ commands1 ] } ]

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information   |
| tech-support            | Gather information for troubleshooting                                    |
| cfs                     | Gather detailed information for cfs troubleshooting                       |
| commands                | (Optional) CFS show tech commands   |
| name                    | (Optional) Gather detailed information of cfs for a specified application |
| <i>cfs-dyn-app-name</i> | (Optional) Registered name of the local application                       |
| commands1               | (Optional) CFS application show tech commands                             |

## Command Mode

- /exec



# show tech-support cli

show tech-support cli

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information               |
| tech-support | Gather information for troubleshooting        |
| cli          | Gather information for parser troubleshooting |

## Command Mode

- /exec

# show tech-support clis

show tech-support clis [ brief ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                   |
| tech-support | Gather information for troubleshooting            |
| clis         | Gather information for CLI Server troubleshooting |
| brief        | (Optional) Detailed information                   |

## Command Mode

- /exec

# show tech-support clock\_manager

show tech-support clock\_manager

## Syntax Description

|               |   |
|---------------|---|
| show          | Show running system information                               |
| tech-support  | Gather information for troubleshooting                        |
| clock_manager | Gather detailed information for clock manager troubleshooting |

## Command Mode

- /exec

# show tech-support commands

show tech-support commands

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                              |
| tech-support | Gather information for troubleshooting                       |
| commands     | Show commands executed as part of show tech-support commands |

## Command Mode

- /exec

# show tech-support controller

show tech-support controller

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                   |
| tech-support | Gather information for troubleshooting            |
| controller   | Gather information for Controller troubleshooting |

## Command Mode

- /exec

# show tech-support copp

show tech-support copp

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information              |
| tech-support | Gather information for trouble shooting      |
| copp         | Gather information for copp trouble shooting |

## Command Mode

- /exec

# show tech-support dcbx

show tech-support dcbx

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                |
| tech-support | Gather information for troubleshooting         |
| dcbx         | Gather detailed information for DCBX component |

## Command Mode

- /exec

# show tech-support details

show tech-support details [ space-optimized ] [ time-optimized ] [ debug-enable ]

## Syntax Description

|                 |  |
|-----------------|--|
| show            | Show running system information  |
| tech-support    | Gather information for troubleshooting                                     |
| details         | Gather detailed information for troubleshooting                            |
| space-optimized | (Optional) Gather tech-support info. using less memory and disk space      |
| time-optimized  | (Optional) Gather tech-support faster, requires more memory and disk space |
| debug-enable    | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                                  |

## Command Mode

- /exec



# show tech-support dhclient

show tech-support dhclient

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                  |
| tech-support | Gather information for trouble shooting          |
| dhclient     | Gather information for dhclient trouble shooting |

## Command Mode

- /exec

# show tech-support dhcp

show tech-support dhcp

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                      |
| tech-support | Gather information for troubleshooting               |
| dhcp         | Gather detailed information for dhcp troubleshooting |

## Command Mode

- /exec

# show tech-support dme

show tech-support dme

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                     |
| tech-support | Gather information for troubleshooting              |
| dme          | Gather detailed information for dme troubleshooting |

## Command Mode

- /exec

# show tech-support dot1x

show tech-support dot1x

## Syntax Description

|              |  |
|--------------|--|
| show         | show tech-support                      |
| tech-support | Gather information for troubleshooting |
| dot1x        | Display dot1x information              |

## Command Mode

- /exec

# show tech-support ecp

show tech-support ecp

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| ecp          | ECP (Edge Control Protocol)            |

## Command Mode

- /exec

# show tech-support eem

show tech-support eem

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| eem          | Show EEM tech-support information       |

## Command Mode

- /exec

# show tech-support eigrp

show tech-support eigrp [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| eigrp        | Display EIGRP status and configuration |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec

# show tech-support eltm

show tech-support eltm [ detail ]

## Syntax Description

|              |   |
|--------------|---|
| show         | show tech-support                       |
| tech-support | Gather information for trouble-shooting |
| eltm         | eltm debug info                         |
| detail       | (Optional) Detailed information         |

## Command Mode

- /exec



# show tech-support ethpm

show tech-support ethpm

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                       |
| tech-support | Gather information for troubleshooting                |
| ethpm        | Gather detailed information for ETHPM troubleshooting |

## Command Mode

- /exec

# show tech-support ethport

show tech-support ethport

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                         |
| tech-support | Gather information for troubleshooting                  |
| ethport      | Gather detailed information for ETHPORT troubleshooting |

## Command Mode

- /exec

# show tech-support evb

show tech-support evb

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| evb          | EVB (Edge Virtual Bridge)              |

## Command Mode

- /exec

# show tech-support fabric forwarding

show tech-support fabric forwarding

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                         |
| tech-support | Gather information for troubleshooting                  |
| fabric       | Fabric  |
| forwarding   | Fabric Forwarding Protocol: Host Mobility Manager (HMM) |

## Command Mode

- /exec

# show tech-support fabric multicast

show tech-support fabric multicast

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| fabric       | Fabric                                 |
| multicast    | Multicast information                  |

## Command Mode

- /exec

# show tech-support fabricpath isis

show tech-support fabricpath isis [ brief ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| fabricpath   | fabricpath information                  |
| isis         | Fabricpath IS-IS information            |
| brief        | (Optional) Brief information            |

## Command Mode

- /exec

# show tech-support fabricpath topology

show tech-support fabricpath topology [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                            |
| tech-support | Gather information for troubleshooting                     |
| fabricpath   | Gather detailed information for Fabricpath troubleshooting |
| topology     | Gather detailed information for Topology troubleshooting   |
| brief        | (Optional) Brief information                               |

## Command Mode

- /exec

# show tech-support fast-reload

show tech-support fast-reload

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                            |
| tech-support | Gather information for troubleshooting                     |
| fast-reload  | Gather information for troubleshooting fast-reload timings |

## Command Mode

- /exec



# show tech-support fc2

show tech-support fc2 [ commands ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                               |
| tech-support | Gather information for troubleshooting                        |
| fc2          | Show information for fc2 technical support                    |
| commands     | (Optional) Show commands run as part of fc2 technical support |

## Command Mode

- /exec

# show tech-support fcoe

show tech-support fcoe

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                  |
| tech-support | Gather information for troubleshooting           |
| fcoe         | Gather information for FCOE mgr trouble shooting |

## Command Mode

- /exec

# show tech-support fips

show tech-support fips

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information            |
| tech-support | Gather information for troubleshooting     |
| fips         | show tech support information for security |

## Command Mode

- /exec

# show tech-support forwarding l2 multicast

show tech-support forwarding l2 multicast

## Syntax Description

|              |                              |
|--------------|------------------------------|
| show         |                              |
| tech-support | tech-support information     |
| forwarding   | forwarding debug information |
| l2           | layer 2 debug information    |
| multicast    | multicast                    |

## Command Mode

- /exec

# show tech-support forwarding l2 multicast vdc-all

show tech-support forwarding l2 multicast vdc-all

## Syntax Description

|              |                              |
|--------------|------------------------------|
| show         |                              |
| tech-support | tech-support information     |
| forwarding   | forwarding debug information |
| l2           | layer 2 debug information    |
| multicast    | multicast                    |
| vdc-all      | vdc-all                      |

## Command Mode

- /exec

# show tech-support forwarding l2 unicast

show tech-support forwarding l2 unicast [ module <module> ]

## Syntax Description

|               |   |
|---------------|---|
| show          | show tech-support                       |
| tech-support  | Gather information for trouble-shooting |
| forwarding    | Forwarding debug info                   |
| l2            | layer 2 debug info                      |
| unicast       | unicast                                 |
| module        | (Optional) Slot number                  |
| <i>module</i> | (Optional) Module Number                |

## Command Mode

- /exec

# show tech-support forwarding l3 multicast

show tech-support forwarding l3 multicast

## Syntax Description

|              |                              |
|--------------|------------------------------|
| show         |                              |
| tech-support | tech-support information     |
| forwarding   | forwarding debug information |
| l3           | layer 3 debug information    |
| multicast    | multicast                    |

## Command Mode

- /exec

# show tech-support forwarding l3 multicast detail

show tech-support forwarding l3 multicast detail

## Syntax Description

|              |                              |
|--------------|------------------------------|
| show         |                              |
| tech-support | tech-support information     |
| forwarding   | forwarding debug information |
| l3           | layer 3 debug information    |
| multicast    | multicast                    |
| detail       | detail                       |

## Command Mode

- /exec



# show tech-support forwarding l3 multicast detail vdc-all

show tech-support forwarding l3 multicast detail vdc-all

## Syntax Description

|              |                              |
|--------------|------------------------------|
| show         |                              |
| tech-support | tech-support information     |
| forwarding   | forwarding debug information |
| l3           | layer 3 debug information    |
| multicast    | multicast                    |
| detail       | detail                       |
| vdc-all      | vdc-all                      |

## Command Mode

- /exec

# show tech-support forwarding l3 multicast vdc-all

show tech-support forwarding l3 multicast vdc-all

## Syntax Description

|              |                              |
|--------------|------------------------------|
| show         |                              |
| tech-support | tech-support information     |
| forwarding   | forwarding debug information |
| l3           | layer 3 debug information    |
| multicast    | multicast                    |
| vdc-all      | vdc-all                      |

## Command Mode

- /exec

# show tech-support forwarding l3 unicast

show tech-support forwarding l3 unicast [ module <module> ] [ list ]

## Syntax Description

|               |  |
|---------------|--|
| show          |  |
| tech-support  | tech-support information                             |
| forwarding    | forwarding debug information                         |
| l3            | layer 3 debug information                            |
| unicast       | unicast  |
| module        | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED            |
| <i>module</i> | (Optional) module number                             |
| list          | (Optional) list the commands, without executing them |

## Command Mode

- /exec

# show tech-support forwarding mpls

show tech-support forwarding mpls [ module <module> ] [ evpn ]

## Syntax Description

|               |                                      |
|---------------|--------------------------------------|
| show          |                                      |
| tech-support  | tech-support information             |
| forwarding    | forwarding debug information         |
| mpls          | mpls related information             |
| module        | (Optional) module                    |
| <i>module</i> | (Optional) module number             |
| evpn          | (Optional) evpn related tech support |

## Command Mode

- /exec

# show tech-support forwarding multicast

show tech-support forwarding multicast [ module <module> ]

## Syntax Description

|               |                              |
|---------------|------------------------------|
| show          |                              |
| tech-support  | tech-support information     |
| forwarding    | forwarding debug information |
| multicast     | multicast                    |
| module        | (Optional) module            |
| <i>module</i> | (Optional) module number     |

## Command Mode

- /exec

# show tech-support gold

show tech-support gold

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| gold         | Show gold tech-support information      |

## Command Mode

- /exec

# show tech-support gpixm

show tech-support gpixm

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                             |
| tech-support | Gather information for troubleshooting                      |
| gpixm        | Gather detailed information for GLOBAL-PIXM troubleshooting |

## Command Mode

- /exec

# show tech-support ha

show tech-support ha [ commands ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information  |
| tech-support | Gather information for troubleshooting                                     |
| ha           | Gather detailed information for HA troubleshooting                         |
| commands     | (Optional) Show commands executed as part of show tech-support ha commands |

## Command Mode

- /exec



# show tech-support ha module

show tech-support ha module <module>

## Syntax Description

|               |  |
|---------------|--|
| show          | Show running system information                    |
| tech-support  | Gather information for troubleshooting             |
| ha            | Gather detailed information for HA troubleshooting |
| module        | Gather info related to a module                    |
| <i>module</i> | Enter module number                                |

## Command Mode

- /exec

# show tech-support ha\_short

show tech-support ha\_short [ commands ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information  |
| tech-support | Gather information for troubleshooting                                     |
| ha_short     | Gather shortened version of HA tech-support for troubleshooting            |
| commands     | (Optional) Show commands executed as part of show tech-support ha commands |

## Command Mode

- /exec

# show tech-support ha standby

show tech-support ha standby [ commands ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information  |
| tech-support | Gather information for troubleshooting                                     |
| ha           | Gather detailed information for HA troubleshooting                         |
| standby      | Gather detailed information for HA troubleshooting from standby supervisor |
| commands     | (Optional) Show commands executed as part of show tech-support ha commands |

## Command Mode

- /exec

# show tech-support hardware-telemetry

show tech-support hardware-telemetry

## Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information        |
| tech-support       | Gather information for troubleshooting |
| hardware-telemetry | Hardware Telemetry Information         |

## Command Mode

- /exec

# show tech-support hsrp

show tech-support hsrp

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| hsrp         | Show hsrp tech-support information      |

## Command Mode

- /exec

# show tech-support hsrp brief

show tech-support hsrp brief

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| hsrp         | Show hsrp tech-support information      |
| brief        | Show tech-support information in brief  |

## Command Mode

- /exec

# show tech-support icam

show tech-support icam [ detail ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| icam         | icam - TCAM Analytics                   |
| detail       | (Optional) Show more details            |

## Command Mode

- /exec

# show tech-support im

show tech-support im

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                    |
| tech-support | Gather information for troubleshooting             |
| im           | Gather detailed information for IM troubleshooting |

## Command Mode

- /exec



# show tech-support imp

show tech-support imp

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| imp          | IMP commands                           |

## Command Mode

- /exec

# show tech-support inband counters

show tech-support inband counters

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information               |
| tech-support | Gather information for troubleshooting        |
| inband       | Gather all information about inband data path |
| counters     | Gather all counters in inband data path       |

## Command Mode

- /exec

# show tech-support include-time

show tech-support include-time

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                                    |
| tech-support | Gather information for troubleshooting                             |
| include-time | Gather tech-support and capture time taken to execute each command |

## Command Mode

- /exec

# show tech-support install

show tech-support install

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                               |
| tech-support | Gather information for trouble shooting                       |
| install      | Gather detailed information for rpm/package install operation |

## Command Mode

- /exec

# show tech-support interface-vlan

show tech-support interface-vlan

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information                                |
| tech-support   | Gather information for troubleshooting                         |
| interface-vlan | Gather detailed information for interface-vlan troubleshooting |

## Command Mode

- /exec

# show tech-support ip

show tech-support ip [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| ip           | Display IP information                 |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec

# show tech-support ip igmp

show tech-support ip igmp [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| ip           | Display IP information                 |
| igmp         | Display IGMP status and configuration  |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec

# show tech-support ip igmp snooping

show tech-support ip igmp snooping [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| ip           | Display IP information                 |
| igmp         | Display IGMP status and configuration  |
| snooping     | IGMP Snooping information              |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec



# show tech-support ip msdp

show tech-support ip msdp [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| ip           | Display IP information                 |
| msdp         | Display MSDP status and configuration  |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec

# show tech-support ip pim

show tech-support ip pim [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| ip           | Display IP information                 |
| pim          | PIM global configuration commands      |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec

# show tech-support ipqos

show tech-support ipqos [ server-only ] [ all ] [ snmp ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information   |
| tech-support | Gather information for troubleshooting  |
| server-only  | (Optional) Dump the tech-support information only from IP QoS Manager server only             |
| all          | (Optional) Dump the tech-support information IP QoS Manager plus brief summary of system      |
| snmp         | (Optional) Dump the tech-support information only from IP QoS Manager server only (SNMP only) |

## Command Mode

- /exec

# show tech-support ipv6 multicast

show tech-support ipv6 multicast

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| ipv6         | Display IPv6 information               |
| multicast    | Display V6 Multicast information       |

## Command Mode

- /exec

# show tech-support ipv6 pim

show tech-support ipv6 pim [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| ipv6         | Display IPv6 information               |
| pim          | PIM6 global configuration commands     |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec

# show tech-support isis

show tech-support isis [ brief ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| isis         | IS-IS events                            |
| brief        | (Optional) Brief information            |

## Command Mode

- /exec

# show tech-support issu

show tech-support issu [ commands ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information   |
| tech-support | Gather information for troubleshooting                                      |
| issu         | Gather detailed information for issu troubleshooting                        |
| commands     | (Optional) Show commands executed as part of show tech-support issu command |

## Command Mode

- /exec

# show tech-support kstack

show tech-support kstack

## Syntax Description

|              |                          |
|--------------|--------------------------|
| show         |                          |
| tech-support | tech-support information |
| kstack       | kstack information       |

## Command Mode

- /exec



# show tech-support l2

show tech-support l2

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                         |
| tech-support | Gather information for troubleshooting                  |
| l2           | Gather detailed information for layer 2 troubleshooting |

## Command Mode

- /exec

# show tech-support l2fm

show tech-support l2fm

## Syntax Description

|              |   |
|--------------|---|
| show         | show tech-support                       |
| tech-support | Gather information for trouble-shooting |
| l2fm         | l2fm debug info                         |

## Command Mode

- /exec

# show tech-support l2fm clients

show tech-support l2fm clients [ module <module> ]

## Syntax Description

|               |  |
|---------------|--|
| show          | Show running system information                          |
| tech-support  | Gather information for troubleshooting                   |
| l2fm          | l2fm debug info  |
| clients       | debug info of l2fm clients only running on linecard(mtm) |
| module        | (Optional) Slot number                                   |
| <i>module</i> | (Optional) Module Number                                 |

## Command Mode

- /exec

# show tech-support l2fm detail

show tech-support l2fm detail [ module <module> ]

## Syntax Description

|               |   |
|---------------|---|
| show          | Show running system information           |
| tech-support  | Gather information for troubleshooting    |
| l2fm          | l2fm debug info                           |
| detail        | All info related to l2fm                  |
| module        | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>module</i> | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |

## Command Mode

- /exec

# show tech-support l2fm l2dbg

show tech-support l2fm l2dbg [ module <module> ]

## Syntax Description

|               |  |
|---------------|--|
| show          | show tech-support  |
| tech-support  | Gather information for trouble-shooting                      |
| l2fm          | l2fm debug info  |
| l2dbg         | tech support capturing additional debug info for l2fm(l2dbg) |
| module        | (Optional) Slot number                                       |
| <i>module</i> | (Optional) Module Number                                     |

## Command Mode

- /exec

# show tech-support l2fm l2dbg

show tech-support l2fm l2dbg [ module <module> ]

## Syntax Description

|               |  |
|---------------|--|
| show          | show tech-support  |
| tech-support  | Gather information for trouble-shooting                      |
| l2fm          | l2fm debug info  |
| l2dbg         | tech support capturing additional debug info for l2fm(l2dbg) |
| module        | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                    |
| <i>module</i> | (Optional) Module Number                                     |

## Command Mode

- /exec

# show tech-support l2rib

show tech-support l2rib

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| l2rib        | Display L2RIB information              |

## Command Mode

- /exec

# show tech-support l3vm

show tech-support l3vm [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| l3vm         | Display VRF information                |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec



# show tech-support l3vpn

show tech-support l3vpn [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| l3vpn        | BGP l3vpn information                  |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec

# show tech-support lacp

show tech-support lacp [ all ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                                       |
| tech-support | Gather information for troubleshooting                                |
| lacp         | Gather detailed information for LACP component                        |
| all          | (Optional) Gather detailed information of LACP and related components |

## Command Mode

- /exec

# show tech-support ldap

show tech-support ldap

## Syntax Description

|              |  |
|--------------|--|
| show         | show tech-support                      |
| tech-support | Gather information for troubleshooting |
| ldap         | Display ldap information               |

## Command Mode

- /exec

# show tech-support license

show tech-support license

## Syntax Description

|              |  |
|--------------|--|
| show         | show commands                          |
| tech-support | Gather information for troubleshooting |
| license      | Display licensing information          |

## Command Mode

- /exec

# show tech-support lim

show tech-support lim

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                     |
| tech-support | Gather information for troubleshooting              |
| lim          | Gather detailed information for LIM troubleshooting |

## Command Mode

- /exec

# show tech-support lisp

show tech-support lisp [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| lisp         | LISP show commands                     |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec

# show tech-support lldp

show tech-support lldp

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                      |
| tech-support | Gather information for troubleshooting               |
| lldp         | Gather detailed information for LLDP troubleshooting |

## Command Mode

- /exec

# show tech-support logging

show tech-support logging

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                         |
| tech-support | Gather information for troubleshooting                  |
| logging      | Show information on logging for technical support staff |

## Command Mode

- /exec



# show tech-support m2rib

show tech-support m2rib

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                       |
| tech-support | Gather information for troubleshooting                |
| m2rib        | Gather detailed information for M2RIB troubleshooting |

## Command Mode

- /exec

# show tech-support macsec

show tech-support macsec

## Syntax Description

|              |   |
|--------------|---|
| tech-support | Gather information for troubleshooting        |
| macsec       | Gather information for macsec troubleshooting |

## Command Mode

- /exec

# show tech-support macsec detail

show tech-support macsec detail [ module <module> ]

## Syntax Description

|               |   |
|---------------|---|
| show          | Show running system information           |
| tech-support  | Gather information for troubleshooting    |
| macsec        | macsec debug info                         |
| detail        | All info related to MACsec                |
| module        | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| <i>module</i> | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |

## Command Mode

- /exec

# show tech-support mfwd

show tech-support mfwd [ brief ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information           |
| tech-support | Gather information for troubleshooting    |
| mfwd         | Display MCASTFWD status and configuration |
| brief        | (Optional) Brief information              |

## Command Mode

- /exec

# show tech-support mmode

show tech-support mmode

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information              |
| tech-support | Gather information for troubleshooting       |
| mmode        | Gather information for troubleshooting mmode |

## Command Mode

- /exec

# show tech-support module

show tech-support module <module>

## Syntax Description

|               |  |
|---------------|--|
| show          | Show running system information        |
| tech-support  | Gather information for troubleshooting |
| module        | Gather info related to a module        |
| <i>module</i> | Enter module number                    |

## Command Mode

- /exec

# show tech-support module all

show tech-support module all

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                  |
| tech-support | Gather information for troubleshooting           |
| module       | Gather info related to a module                  |
| all          | Gather info related to all modules in the system |

## Command Mode

- /exec

# show tech-support monitor

show tech-support monitor

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                         |
| tech-support | Gather information for troubleshooting                  |
| monitor      | Gather detailed information for monitor troubleshooting |

## Command Mode

- /exec



# show tech-support monitor erspan

show tech-support monitor erspan

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                                |
| tech-support | Gather information for troubleshooting                         |
| monitor      | Gather detailed information for monitor troubleshooting        |
| erspan       | Gather detailed information for erspan session troubleshooting |

## Command Mode

- /exec

# show tech-support monitorc-all

show tech-support monitorc-all

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                             |
| tech-support | Gather information for troubleshooting                      |
| monitorc-all | Gather detailed information for LC MONITORC troubleshooting |

## Command Mode

- /exec

# show tech-support mpls manager

{ show tech-support mpls manager }

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| mpls         | MPLS                                   |
| manager      | MPLS-Mgr                               |

## Command Mode

- /exec

# show tech-support mpls static

show tech-support mpls static [ brief ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                             |
| tech-support | Gather information for troubleshooting                      |
| mpls         | Display MPLS status and configuration                       |
| static       | Display STATIC configuration and status for troubleshooting |
| brief        | (Optional) Brief information                                |

## Command Mode

- /exec

# show tech-support mpls strip

show tech-support mpls strip

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information              |
| tech-support | Gather information for trouble shooting      |
| mpls         | MPLS   |
| strip        | Gather MPLS label strip troubleshooting info |

## Command Mode

- /exec

# show tech-support mpls switching

show tech-support mpls switching

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information           |
| tech-support | Gather MPLS switching information         |
| mpls         | Display MPLS status and configuration     |
| switching    | Display the MPLS label switching database |

## Command Mode

- /exec

# show tech-support mpls traffic-eng

show tech-support mpls traffic-eng [ brief ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| mpls         | Display MPLS status and configuration   |
| traffic-eng  | Traffic engineering information         |
| brief        | (Optional) Brief information            |

## Command Mode

- /exec

# show tech-support mpls fwd

show tech-support mpls fwd [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| mplsfwd      | Display MPLS forwarding information    |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec



# show tech-support multicast-vxlan-evpn

show tech-support multicast-vxlan-evpn

## Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information         |
| tech-support         | Gather information for trouble shooting |
| multicast-vxlan-evpn | Multicast VxLAN EVPN feature            |

## Command Mode

- /exec

# show tech-support multicast

show tech-support [ ip | ipv4 ] multicast

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| ip           | (Optional) Display IP information      |
| ipv4         | (Optional) Display IP information      |
| multicast    | Display V4 Multicast information       |

## Command Mode

- /exec

# show tech-support mvpn

show tech-support mvpn [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| mvpn         | Display Multicast VPN information      |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec

# show tech-support nat

show tech-support nat

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information            |
| tech-support | Gather information for troubleshooting     |
| nat          | Gather information for troubleshooting NAT |

## Command Mode

- /exec

# show tech-support nbm

show tech-support nbm [ brief ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble-shooting |
| nbm          | Non Blocking Multicast                  |
| brief        | (Optional) Minimal information          |

## Command Mode

- /exec

# show tech-support nbm group

show tech-support nbm group <grp> [ source <src> ] [ vrf { <vrf-name> | <nbm-vrf-known-name> | all } ]

## Syntax Description

|                           |   |
|---------------------------|---|
| show                      | Show running system information         |
| tech-support              | Gather information for trouble-shooting |
| nbm                       | Non Blocking Multicast                  |
| group                     | Multicast group                         |
| <i>grp</i>                | Multicast group address                 |
| source                    | (Optional) Source IP address            |
| <i>src</i>                | (Optional) Source unicast IP address    |
| vrf                       | (Optional) Display per-VRF information  |
| all                       | (Optional) Display all VRFs             |
| <i>vrf-name</i>           | (Optional) VRF name                     |
| <i>nbm-vrf-known-name</i> | (Optional) NBM VRF Name                 |

## Command Mode

- /exec

# show tech-support netflow

show tech-support netflow [ brief ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| netflow      | Show NetFlow tech-support information   |
| brief        | (Optional) Brief information            |

## Command Mode

- /exec

# show tech-support netstack

show tech-support netstack

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                 |
| tech-support | Gather information for troubleshooting          |
| netstack     | Gather information for NETSTACK troubleshooting |

## Command Mode

- /exec



# show tech-support netstack detail

show tech-support netstack detail

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                          |
| tech-support | Gather information for troubleshooting                   |
| netstack     | Gather information for NETSTACK troubleshooting          |
| detail       | Gather detailed information for NETSTACK troubleshooting |

## Command Mode

- /exec

# show tech-support ngoam

show tech-support ngoam

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble-shooting |
| ngoam        | ngoam                                   |

## Command Mode

- /exec

# show tech-support npacl

show tech-support npacl [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| npacl        | Display npacl information              |
| brief        | (Optional) Brief npacl information     |

## Command Mode

- /exec

# show tech-support npv

show tech-support npv

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                  |
| tech-support | Gather information for troubleshooting           |
| npv          | Show information for NPV technical support staff |

## Command Mode

- /exec

# show tech-support ns

show tech-support ns

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                |
| tech-support | Gather information for troubleshooting         |
| ns           | Gather detailed information for northstar asic |

## Command Mode

- /exec

# show tech-support ntp

show tech-support ntp

## Syntax Description

|              |   |
|--------------|---|
| show         | show running system information             |
| tech-support | Gather information for trouble shooting     |
| ntp          | Gather information for NTP trouble shooting |

## Command Mode

- /exec

# show tech-support nve

show tech-support nve

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| nve          | Display NVE information                 |

## Command Mode

- /exec

# show tech-support nxapi

show tech-support nxapi

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                       |
| tech-support | Gather information for troubleshooting                |
| nxapi        | Gather detailed information for nxapi troubleshooting |

## Command Mode

- /exec



# show tech-support nxsdk

show tech-support nxsdk

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| nxsdk        | NXOS SDK                               |

## Command Mode

- /exec

# show tech-support object-store

show tech-support object-store

## Syntax Description

|              |   |
|--------------|---|
| show         | Show Object Store   |
| tech-support | Gather information for troubleshooting                              |
| object-store | Gather information from object store for Controller troubleshooting |

## Command Mode

- /exec

# show tech-support openflow

show tech-support openflow [ brief | detailed ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| openflow     | Show tech support for OpenFlow          |
| brief        | (Optional) Brief information            |
| detailed     | (Optional) Detailed information         |

## Command Mode

- /exec

# show tech-support openflow platform

show tech-support openflow platform

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| openflow     | openflow component                     |
| platform     | openflow platform components           |

## Command Mode

- /exec

# show tech-support ospf

show tech-support ospf [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| ospf         | Display OSPF status and configuration  |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec

# show tech-support ospfv3

show tech-support ospfv3 [ brief ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for troubleshooting  |
| ospfv3       | Display OSPFv3 status and configuration |
| brief        | (Optional) Brief information            |

## Command Mode

- /exec

# show tech-support otv

show tech-support otv [ brief ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| otv          | Display OTV information                 |
| brief        | (Optional) Brief OTV information        |

## Command Mode

- /exec

# show tech-support page

show tech-support page [ time-optimized ] [ forced ]

## Syntax Description

|                |  |
|----------------|--|
| show           | Show running system information  |
| tech-support   | Gather information for troubleshooting                                     |
| page           | Page through the output  |
| time-optimized | (Optional) Gather tech-support faster, requires more memory and disk space |
| forced         | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                                  |

## Command Mode

- /exec



# show tech-support patch

show tech-support patch

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                       |
| tech-support | Gather information for troubleshooting                |
| patch        | Gather detailed information for patch troubleshooting |

## Command Mode

- /exec

# show tech-support pbr

{ show tech-support pbr }

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                |
| tech-support | Gather information for troubleshooting         |
| pbr          | Display Policy Based Routing (PBR) information |

## Command Mode

- /exec

# show tech-support pfstat

show tech-support pfstat

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                        |
| tech-support | Gather information for troubleshooting                 |
| pfstat       | Gather detailed information for pfstat troubleshooting |

## Command Mode

- /exec

# show tech-support pixm-all

show tech-support pixm-all

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                      |
| tech-support | Gather information for troubleshooting               |
| pixm-all     | Gather detailed information for PIXM troubleshooting |

## Command Mode

- /exec

# show tech-support pixm

show tech-support pixm

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                                |
| tech-support | Gather information for troubleshooting                         |
| pixm         | Gather detailed information for vdc-local-PIXM troubleshooting |

## Command Mode

- /exec

# show tech-support pixmc-all

show tech-support pixmc-all

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                          |
| tech-support | Gather information for troubleshooting                   |
| pixmc-all    | Gather detailed information for LC PIXMC troubleshooting |

## Command Mode

- /exec

# show tech-support pktmgr

show tech-support pktmgr [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| pktmgr       | Display Packet Manager information     |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec

# show tech-support platform-sdk

show tech-support platform-sdk

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                              |
| tech-support | Gather information for troubleshooting                       |
| platform-sdk | Gather detailed information for platform-sdk troubleshooting |

## Command Mode

- /exec



# show tech-support platform

show tech-support platform

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| platform     | Get platform related information       |

## Command Mode

- /exec

# show tech-support plb-services

show tech-support plb-services [ detail ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| plb-services | PLB Services                            |
| detail       | (Optional) Show more details            |

## Command Mode

- /exec

# show tech-support plcmgr

show tech-support plcmgr [ detail ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                   |
| tech-support | Gather information for troubleshooting            |
| plcmgr       | Policy Manager                                    |
| detail       | (Optional) Print more details (e.g. messages,etc) |

## Command Mode

- /exec

# show tech-support pltfm-config

show tech-support pltfm-config

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                              |
| tech-support | Gather information for troubleshooting                       |
| pltfm-config | Gather detailed information for pltfm-config troubleshooting |

## Command Mode

- /exec

# show tech-support pnp

show tech-support pnp

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information          |
| tech-support | Gather information for troubleshooting   |
| pnp          | Show Technical support for Plug and Play |

## Command Mode

- /exec

# show tech-support poe

show tech-support poe

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information             |
| tech-support | Gather information for troubleshooting      |
| poe          | Gather information for PoE trouble shooting |

## Command Mode

- /exec

# show tech-support port-channel

show tech-support port-channel

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                              |
| tech-support | Gather information for troubleshooting                       |
| port-channel | Gather detailed information for port channel troubleshooting |

## Command Mode

- /exec

# show tech-support port-client-all

show tech-support port-client-all

## Syntax Description

|                 |  |
|-----------------|--|
| show            | Show running system information                                |
| tech-support    | Gather information for troubleshooting                         |
| port-client-all | Gather detailed information for LC port client troubleshooting |

## Command Mode

- /exec



# show tech-support port-profile

show tech-support port-profile

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                      |
| tech-support | Gather information for troubleshooting               |
| port-profile | Gather information for troubleshooting port-profiles |

## Command Mode

- /exec

# show tech-support port-security

show tech-support port-security

## Syntax Description

|               |   |
|---------------|---|
| show          | Show running system information         |
| tech-support  | Gather information for trouble shooting |
| port-security | Port security related command           |

## Command Mode

- /exec

# show tech-support port

show tech-support port

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                              |
| tech-support | Gather information for troubleshooting                       |
| port         | Gather detailed information for port manager troubleshooting |

## Command Mode

- /exec

# show tech-support private-vlan

show tech-support private-vlan

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                              |
| tech-support | Gather information for troubleshooting                       |
| private-vlan | Gather detailed information for private-vlan troubleshooting |

## Command Mode

- /exec

# show tech-support ptp

show tech-support ptp

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                     |
| tech-support | Gather information for troubleshooting              |
| ptp          | Gather detailed information for PTP troubleshooting |

## Command Mode

- /exec

# show tech-support radius

show tech-support radius

## Syntax Description

|              |  |
|--------------|--|
| show         | show tech-support                      |
| tech-support | Gather information for troubleshooting |
| radius       | Display radius information             |

## Command Mode

- /exec

# show tech-support rip

show tech-support rip [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| rip          | Display RIP routing protocol status    |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec

# show tech-support routing

show tech-support routing [ ip | ipv4 ] [ unicast ] [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                |
| tech-support | Gather information for troubleshooting         |
| routing      | Display routing information                    |
| ip           | (Optional) Display IP information              |
| ipv4         | (Optional) Display IP information              |
| unicast      | (Optional) Display unicast routing information |
| brief        | (Optional) Brief information                   |

## Command Mode

- /exec



# show tech-support routing ipv6

show tech-support routing ipv6 [ unicast ] [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                |
| tech-support | Gather information for troubleshooting         |
| routing      | Display routing information                    |
| ipv6         | Display IPv6 information                       |
| unicast      | (Optional) Display unicast routing information |
| brief        | (Optional) Brief information                   |

## Command Mode

- /exec

# show tech-support routing ipv6 multicast

show tech-support routing ipv6 multicast [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| routing      | Display routing information            |
| ipv6         | Display IPv6 information               |
| multicast    | Display V6 Multicast information       |
| brief        | (Optional) Brief information           |

## Command Mode

- /exec

# show tech-support routing multicast

show tech-support routing [ ip | ipv4 ] multicast [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| routing      | Display routing information            |
| ip           | (Optional) Display IP information      |
| ipv4         | (Optional) Display IP information      |
| multicast    | Display V4 Multicast information       |
| brief        | (Optional) Display brief information   |

## Command Mode

- /exec

# show tech-support rpm

```
{ show tech-support rpm }
```

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                |
| tech-support | Gather information for troubleshooting         |
| rpm          | Display Route Policy Manager (RPM) information |

## Command Mode

- /exec

# show tech-support sal

show tech-support sal

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| sal          | Show SAL tech-support information       |

## Command Mode

- /exec

# show tech-support san-port-channel

show tech-support san-port-channel

## Syntax Description

|                  |  |
|------------------|--|
| show             | Show running system information                                  |
| tech-support     | Gather information for troubleshooting                           |
| san-port-channel | Gather detailed information for san port channel troubleshooting |

## Command Mode

- /exec

# show tech-support san

show tech-support san

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information             |
| tech-support | Gather information for troubleshooting      |
| san          | Gather information for SAN trouble shooting |

## Command Mode

- /exec

# show tech-support satmgr

show tech-support satmgr

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                        |
| tech-support | Gather information for troubleshooting                 |
| satmgr       | Gather detailed information for satmgr troubleshooting |

## Command Mode

- /exec



# show tech-support security

show tech-support security

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information            |
| tech-support | Gather information for troubleshooting     |
| security     | show tech support information for security |

## Command Mode

- /exec

# show tech-support segment-routing

show tech-support segment-routing

## Syntax Description

|                 |                                 |
|-----------------|---------------------------------|
| show            | Show running system information |
| tech-support    | Gather tech-support information |
| segment-routing | Segment-routing tech-support    |

## Command Mode

- /exec

# show tech-support services

show tech-support services [ detail ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| services     | Services                                |
| detail       | (Optional) Show more details            |

## Command Mode

- /exec

# show tech-support session-mgr

show tech-support session-mgr

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                        |
| tech-support | Gather information for troubleshooting                 |
| session-mgr  | Gather information for troubleshooting session manager |

## Command Mode

- /exec

# show tech-support sflow

show tech-support sflow

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information               |
| tech-support | Gather information for troubleshooting        |
| sflow        | Gather detailed information for sflow feature |

## Command Mode

- /exec

# show tech-support sksd

show tech-support sksd

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| sksd         | show tech support information for sksd |

## Command Mode

- /exec

# show tech-support sla responder

show tech-support sla responder [ brief | detail ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| sla          | Service Level Agreement (SLA)           |
| responder    | Configure sla-responder tech support    |
| brief        | (Optional) Show less details            |
| detail       | (Optional) Show more details            |

## Command Mode

- /exec

# show tech-support sla sender

show tech-support sla sender [ brief | detail ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| sla          | Service Level Agreement (SLA)           |
| sender       | Configure sla-sender tech support       |
| brief        | (Optional) Show less details            |
| detail       | (Optional) Show more details            |

## Command Mode

- /exec



# show tech-support sla twamp-server

show tech-support sla twamp-server [ brief | detail ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| sla          | Service Level Agreement (SLA)           |
| twamp-server | Configure sla-twamp-server tech support |
| brief        | (Optional) Show less details            |
| detail       | (Optional) Show more details            |

## Command Mode

- /exec

# show tech-support smartc

show tech-support smartc [ detail ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| smartc       | smartc channel services                 |
| detail       | (Optional) Show more details            |

## Command Mode

- /exec

# show tech-support smm

show tech-support smm

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| smm          | Shared memory                          |

## Command Mode

- /exec

# show tech-support snmp

show tech-support snmp

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| snmp         | Gather info related to snmp            |

## Command Mode

- /exec

# show tech-support sockets

show tech-support sockets [ brief ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information          |
| tech-support | Gather information for troubleshooting   |
| sockets      | Display sockets status and configuration |
| brief        | (Optional) Brief information             |

## Command Mode

- /exec

# show tech-support spm

show tech-support spm [ <application> ] [ detail ]

## Syntax Description

|                    |   |
|--------------------|---|
| show               | Show running system information                   |
| tech-support       | Gather information for troubleshooting            |
| spm                | Service Policy Manager                            |
| <i>application</i> | (Optional) Specify an application                 |
| detail             | (Optional) Print more details (e.g. messages,etc) |

## Command Mode

- /exec

# show tech-support srte

show tech-support srte

## Syntax Description

|              |                                 |
|--------------|---------------------------------|
| show         | Show running system information |
| tech-support | Gather SRTE information         |
| srte         | Segment-Routing Traffic Eng     |

## Command Mode

- /exec

# show tech-support statsclient

show tech-support statsclient [ module <module> ]

## Syntax Description

|               |  |
|---------------|--|
| show          | Show running system information              |
| tech-support  | Gather information for troubleshooting       |
| statsclient   | Gather statsclient tech-support              |
| module        | (Optional) Gather info related to one module |
| <i>module</i> | (Optional) Enter module number               |

## Command Mode

- /exec



# show tech-support stp

show tech-support stp

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                     |
| tech-support | Gather information for troubleshooting              |
| stp          | Gather detailed information for STP troubleshooting |

## Command Mode

- /exec

# show tech-support sup-filesys

show tech-support sup-filesys

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| sup-filesys  | File-sys related issue                 |

## Command Mode

- /exec

# show tech-support sysmgr

show tech-support sysmgr [ commands ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                                       |
| tech-support | Gather information for troubleshooting                                |
| sysmgr       | Gather detailed information for sysmgr troubleshooting                |
| commands     | (Optional) Show commands executed as part of show tech-support sysmgr |

## Command Mode

- /exec

# show tech-support tacacs

show tech-support tacacs +

## Syntax Description

|              |  |
|--------------|--|
| show         | show tech-support                      |
| tech-support | Gather information for troubleshooting |

## Command Mode

- /exec

# show tech-support telemetry

show tech-support telemetry

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                  |
| tech-support | Gather information for troubleshooting           |
| telemetry    | Gather information for telemetry troubleshooting |

## Command Mode

- /exec

# show tech-support track

show tech-support track

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| track        | Show track tech-support information     |

## Command Mode

- /exec

# show tech-support tunnel

show tech-support tunnel [ { commands | detail [ commands1 ] } ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information  |
| tech-support | Gather information for troubleshooting                                     |
| tunnel       | Gather detailed information for tunnel troubleshooting                     |
| commands     | (Optional) Lists commands under 'show tunnel tech-support' command         |
| detail       | (Optional) Gather detailed information for tunnel troubleshooting          |
| commands1    | (Optional) Lists commands under 'Show tech-support tunnel detail' commands |

## Command Mode

- /exec

# show tech-support u2rib

show tech-support u2rib

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                       |
| tech-support | Gather information for troubleshooting                |
| u2rib        | Gather detailed information for U2RIB troubleshooting |

## Command Mode

- /exec



# show tech-support udd

show tech-support udd

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                     |
| tech-support | Gather information for troubleshooting              |
| udd          | Gather detailed information for udd troubleshooting |

## Command Mode

- /exec

# show tech-support usd-all

show tech-support usd-all

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                        |
| tech-support | Gather information for troubleshooting                 |
| usd-all      | Gather detailed information for LC USD troubleshooting |

## Command Mode

- /exec

# show tech-support vdc

show tech-support vdc

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                     |
| tech-support | Gather information for troubleshooting              |
| vdc          | Gather detailed information for VDC troubleshooting |

## Command Mode

- /exec

# show tech-support virtual-service

show tech-support virtual-service

## Syntax Description

|                 |   |
|-----------------|---|
| show            | Show running system information                                 |
| tech-support    | Gather information for trouble shooting                         |
| virtual-service | Gather information for virtualization services trouble shooting |

## Command Mode

- /exec

# show tech-support vlan

show tech-support vlan

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                      |
| tech-support | Gather information for troubleshooting               |
| vlan         | Gather detailed information for VLAN troubleshooting |

## Command Mode

- /exec

# show tech-support vmtracker

show tech-support vmtracker

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information        |
| tech-support | Gather information for troubleshooting |
| vmtracker    | VMTRACKER commands                     |

## Command Mode

- /exec

# show tech-support vpc

show tech-support vpc

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                     |
| tech-support | Gather information for troubleshooting              |
| vpc          | Gather detailed information for VPC troubleshooting |

## Command Mode

- /exec

# show tech-support vrrp

show tech-support vrrp

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information             |
| tech-support | Gather information for troubleshooting      |
| vrrp         | Show information for vrrp technical support |

## Command Mode

- /exec



# show tech-support vrrp brief

show tech-support vrrp brief

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                      |
| tech-support | Gather information for troubleshooting               |
| vrrp         | Show information for vrrp technical support          |
| brief        | Show information for vrrp technical support in brief |

## Command Mode

- /exec

# show tech-support vrrpv3

show tech-support vrrpv3 [ detail ]

## Syntax Description

|              |   |
|--------------|---|
| vrrpv3       | VRRPv3 configuration commands           |
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| detail       | (Optional) Detailed output              |

## Command Mode

- /exec

# show tech-support vsan

show tech-support vsan [ <i>i0</i> | commands ]

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                                |
| tech-support | Gather information for troubleshooting                         |
| vsan         | Gather detailed information for vsan troubleshooting           |
| <i>i0</i>    | (Optional) VSAN id range                                       |
| commands     | (Optional) Show commands run as part of vsan technical support |

## Command Mode

- /exec

# show tech-support vshd

show tech-support vshd

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information             |
| tech-support | Show information for technical support      |
| vshd         | Show vshd information for technical support |

## Command Mode

- /exec

# show tech-support vtp

show tech-support vtp

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information                     |
| tech-support | Gather information for troubleshooting              |
| vtp          | Gather detailed information for vtp troubleshooting |

## Command Mode

- /exec

# show tech-support vvlan

show tech-support vvlan

## Syntax Description

|              |  |
|--------------|--|
| show         | Show running system information                            |
| tech-support | Gather information for troubleshooting                     |
| vvlan        | Gather detailed information for Voice VLAN troubleshooting |

## Command Mode

- /exec

# show tech-support vxlan

show tech-support vxlan

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| vxlan        | VxLAN feature                           |

## Command Mode

- /exec

# show tech-support vxlan platform

show tech-support vxlan platform

## Syntax Description

|              |  |
|--------------|--|
| show         | Show tech-support                      |
| tech-support | Gather information for troubleshooting |
| vxlan        | VxLAN components                       |
| platform     | VxLAN platform components              |

## Command Mode

- /exec



# show tech-support xbar

show tech-support xbar

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for trouble shooting |
| xbar         | Show xbar tech-support information      |

## Command Mode

- /exec

# show tech-support xml

show tech-support xml

## Syntax Description

|              |   |
|--------------|---|
| show         | show running system information             |
| tech-support | Gather information for trouble shooting     |
| xml          | Gather information for xml trouble shooting |

## Command Mode

- /exec

# show tech-support xos

show tech-support xos [ brief ]

## Syntax Description

|              |   |
|--------------|---|
| show         | Show running system information         |
| tech-support | Gather information for troubleshooting  |
| xos          | Cross-OS Library Information and Traces |
| brief        | (Optional) Brief information            |

## Command Mode

- /exec

## show telemetry control database

```

show telemetry control { database [ subscriptions | destination-groups | destinations | sensor-paths | sensor-groups
] | stats } [ __readonly__ [ <subscription_db_size> ] [ { TABLE_subscriptions <subscription_id>
<data_collector_type> } ] [ <sensor_grp_db_size> ] [ { TABLE_sensor_grp <snsr_grp_row_idx> <snsr_grp_id>
<snsr_grp_type> <snsr_grp_collector_type> <snsr_grp_timer_interval> <snsr_grp_timer_status>
<snsr_grp_sub_count> <snsr_grp_sub_id> <snsr_grp_dc_cur_time> <snsr_grp_dc_min_time>
<snsr_grp_dc_max_time> <snsr_grp_enc_cur_time> <snsr_grp_enc_min_time> <snsr_grp_enc_max_time>
<snsr_grp_trans_cur_time> <snsr_grp_trans_min_time> <snsr_grp_trans_max_time>
<snsr_grp_stream_cur_time> <snsr_grp_stream_min_time> <snsr_grp_stream_max_time>
<snsr_grp_stream_col_id_drop> <snsr_grp_stream_last_col_id_drop> <snsr_grp_stream_col_drop> } ] [
<sensor_path_db_size> ] [ { TABLE_sensor_path <path_row_idx> <path_subscribed> <path_group_count>
<path_secondary_group_count> <path_level> <path_name> <path_grp_id> <path_query_condition>
<path_filter_condition> <path_gpb_cur_enc_size> <path_gpb_min_enc_size> <path_gpb_max_enc_size>
<path_json_cur_enc_size> <path_json_min_enc_size> <path_json_max_enc_size> <path_dc_cur_time>
<path_dc_min_time> <path_dc_max_time> <path_enc_cur_time> <path_enc_min_time>
<path_enc_max_time> <path_trans_cur_time> <path_trans_min_time> <path_trans_max_time>
<path_stream_cur_time> <path_stream_min_time> <path_stream_max_time> } ] [
<destination_group_db_size> ] [ <destination_group_use_vrf> ] [ { TABLE_destination_group
<destination_group_id> <destination_group_refcount> } ] [ <destination_db_size> ] [ { TABLE_destinations
<destination_ip> <destination_port> <destination_encoding> <destination_transport> <destination_refcount>
} ] [ db_statistics <chunk_alloc_fail> <sensor_path_chunk_create_fail> <sensor_group_chunk_create_fail>
<destination_chunk_create_fail> <destination_group_chunk_create_fail> <subscription_chunk_create_fail>
<sensor_path_db_create_fail> <sensor_group_db_create_fail> <destination_db_create_fail>
<destination_group_db_create_fail> <subscription_db_create_fail> <sensor_path_db_insert_fail>
<sensor_group_db_insert_fail> <destination_db_insert_fail> <destination_group_db_insert_fail>
<subscription_db_insert_fail> <sensor_path_db_delete_fail> <sensor_group_db_delete_fail>
<destination_db_delete_fail> <destination_group_db_delete_fail> <subscription_db_delete_fail>
<sensor_path_delete_in_use> <sensor_group_delete_in_use> <destination_delete_in_use>
<destination_group_delete_in_use> <delete_destination_in_use_fail>
<sensor_path_sensor_group_list_create_fail> <sensor_path_prop_list_create_fail>
<sensor_path_secondary_sensor_path_list_create_fail> <sensor_path_secondary_sensor_group_list_create_fail>
<sensor_group_sensor_path_list_create_fail> <sensor_group_subscription_list_create_fail>
<destination_group_subscription_list_create_fail> <destination_group_destination_list_create_fail>
<destination_destination_group_list_create_fail> <subscription_sensor_group_list_create_fail>
<subscription_destination_group_list_create_fail> <sensor_group_sensor_path_list_delete_fail>
<sensor_group_subscription_list_delete_fail> <sensor_group_subscription_unsupported_data_source_fail>
<destination_group_subscription_list_delete_fail> <destination_group_destination_list_delete_fail>
<subscription_sensor_group_list_delete_fail> <subscription_destination_group_list_delete_fail>
<destination_destination_group_list_delete_fail> <destination_delete_from_destination_group_fail>
<destination_group_delete_from_subscription_fail> <sensor_group_delete_from_subscription_fail>
<sensor_path_delete_from_sensor_group_fail> <get_encode_cb_fail> <get_transport_cb_fail> ] ]

```

### Syntax Description

|           |                                 |
|-----------|---------------------------------|
| show      | Show running system information |
| telemetry | Show telemetry info             |
| control   | Show telemetry control          |

|                          |  |
|--------------------------|--|
| database                 | Show database  |
| subscriptions            | (Optional) Show subscriptions                        |
| destination-groups       | (Optional) Show destination-groups                   |
| destinations             | (Optional) Show destinations                         |
| sensor-paths             | (Optional) Show sensor-paths                         |
| sensor-groups            | (Optional) Show sensor-groups                        |
| stats                    | Show stats   |
| __readonly__             | (Optional)   |
| TABLE_sensor_grp         | (Optional) Sensor group table                        |
| sensor_grp_db_size       | (Optional) Sensor group DB size                      |
| snsr_grp_row_idx         | (Optional) Sensor Group Row Idx                      |
| snsr_grp_id              | (Optional) Sensor Group Id                           |
| snsr_grp_type            | (Optional) Sensor Group Type                         |
| snsr_grp_collector_type  | (Optional) Sensor Group Collector Type               |
| snsr_grp_timer_interval  | (Optional) Sensor Group Timer Interval in ms         |
| snsr_grp_timer_status    | (Optional) Sensor Group Timer Status                 |
| snsr_grp_sub_count       | (Optional) Sensor Group Sub Count                    |
| snsr_grp_sub_id          | (Optional) Sensor Group Sub Id                       |
| snsr_grp_dc_cur_time     | (Optional) Sensor Group Data collection Current Time |
| snsr_grp_dc_min_time     | (Optional) Sensor Group Data collection Minimum Time |
| snsr_grp_dc_max_time     | (Optional) Sensor Group Data collection Maximum Time |
| snsr_grp_enc_cur_time    | (Optional) Sensor Group Encoding Current Time        |
| snsr_grp_enc_min_time    | (Optional) Sensor Group Encoding Minimum Time        |
| snsr_grp_enc_max_time    | (Optional) Sensor Group Encoding Maximum Time        |
| snsr_grp_trans_cur_time  | (Optional) Sensor Group Transport Current Time       |
| snsr_grp_trans_min_time  | (Optional) Sensor Group Transport Minimum Time       |
| snsr_grp_trans_max_time  | (Optional) Sensor Group Transport Maximum Time       |
| snsr_grp_stream_cur_time | (Optional) Sensor Group Streaming Current Time       |
| snsr_grp_stream_min_time | (Optional) Sensor Group Streaming Minimum Time       |

|   |  |
|---|--|
| <i>snsr_grp_stream_max_time</i>         | (Optional) Sensor Group Streaming Maximum Time               |
| <i>snsr_grp_stream_col_id_drop</i>      | (Optional) Sensor Group Stream collection id Drop            |
| <i>snsr_grp_stream_last_col_id_drop</i> | (Optional) Sensor Group Stream last collection id Drop       |
| <i>snsr_grp_stream_col_drop</i>         | (Optional) Sensor Group Stream number of collections dropped |
| TABLE_sensor_path                       | (Optional) Sensor path table                                 |
| <i>sensor_path_db_size</i>              | (Optional) Sensor path DB size                               |
| <i>path_row_idx</i>                     | (Optional) Sensor Path row index                             |
| <i>path_subscribed</i>                  | (Optional) Sensor path subscribed to events                  |
| <i>path_group_count</i>                 | (Optional) Sensor path group subscriptions                   |
| <i>path_secondary_group_count</i>       | (Optional) Sensor path secondary group subscriptions         |
| <i>path_level</i>                       | (Optional) Sensor path level                                 |
| <i>path_name</i>                        | (Optional) Sensor path name                                  |
| <i>path_grp_id</i>                      | (Optional) Sensor path group ID                              |
| <i>path_query_condition</i>             | (Optional) Sensor path query condition                       |
| <i>path_filter_condition</i>            | (Optional) Sensor path filter condition                      |
| <i>path_gpb_cur_enc_size</i>            | (Optional) Sensor path gpb current encoded size              |
| <i>path_gpb_min_enc_size</i>            | (Optional) Sensor path gpb min encoded size                  |
| <i>path_gpb_max_enc_size</i>            | (Optional) Sensor path gpb max encoded size                  |
| <i>path_json_cur_enc_size</i>           | (Optional) Sensor path json current encoded size             |
| <i>path_json_min_enc_size</i>           | (Optional) Sensor path json min encoded size                 |
| <i>path_json_max_enc_size</i>           | (Optional) Sensor path json max encoded size                 |
| <i>path_dc_cur_time</i>                 | (Optional) sensor path last collection time                  |
| <i>path_dc_min_time</i>                 | (Optional) sensor path min collection time                   |
| <i>path_dc_max_time</i>                 | (Optional) sensor path max collection time                   |
| <i>path_enc_cur_time</i>                | (Optional) sensor path last encode time                      |
| <i>path_enc_min_time</i>                | (Optional) sensor path min encode time                       |
| <i>path_enc_max_time</i>                | (Optional) sensor path max encode time                       |
| <i>path_trans_cur_time</i>              | (Optional) sensor path last transport time                   |
| <i>path_trans_min_time</i>              | (Optional) sensor path min transport time                    |

|  |   |
|--|---|
| <i>path_trans_max_time</i>                 | (Optional) sensor path min transport time       |
| <i>path_stream_cur_time</i>                | (Optional) sensor path last stream time         |
| <i>path_stream_min_time</i>                | (Optional) sensor path min stream time          |
| <i>path_stream_max_time</i>                | (Optional) sensor path max stream time          |
| TABLE_destination_group                    | (Optional) Destination group table              |
| <i>destination_group_id</i>                | (Optional) Destination group ID                 |
| <i>destination_group_db_size</i>           | (Optional) Destination group DB size            |
| <i>destination_group_use_vrf</i>           | (Optional) Destination group vrf                |
| <i>destination_group_refcount</i>          | (Optional) Destination group subscription count |
| TABLE_destinations                         | (Optional) Destination table                    |
| <i>destination_db_size</i>                 | (Optional) Destination DB size                  |
| <i>destination_ip</i>                      | (Optional) Destination IP address               |
| <i>destination_port</i>                    | (Optional) Destination IP port                  |
| <i>destination_encoding</i>                | (Optional) Destination encoding                 |
| <i>destination_transport</i>               | (Optional) Destination transport                |
| <i>destination_refcount</i>                | (Optional) Destination subscription count       |
| TABLE_subscriptions                        | (Optional) Subscription table                   |
| <i>subscription_id</i>                     | (Optional) Subscription ID                      |
| <i>subscription_db_size</i>                | (Optional) Subscription DB size                 |
| <i>data_collector_type</i>                 | (Optional) Data collector type                  |
| db_statistics                              | (Optional) DB Statistics                        |
| <i>chunk_alloc_fail</i>                    | (Optional) Chunk Alloc Fail                     |
| <i>sensor_path_chunk_create_fail</i>       | (Optional) Sensor Path Chunk Create Fail        |
| <i>sensor_group_chunk_create_fail</i>      | (Optional) Sensor Group Chunk Create Fail       |
| <i>destination_chunk_create_fail</i>       | (Optional) Destination Chunk Create Fail        |
| <i>destination_group_chunk_create_fail</i> | (Optional) Destination Group Chunk Create Fail  |
| <i>subscription_chunk_create_fail</i>      | (Optional) Subscription Chunk Create Fail       |
| <i>sensor_path_db_create_fail</i>          | (Optional) Sensor Path Db Create Fail           |
| <i>sensor_group_db_create_fail</i>         | (Optional) Sensor Group Db Create Fail          |

|  |  |
|--|--|
| <i>destination_db_create_fail</i>                          | (Optional) Destination Db Create Fail                          |
| <i>destination_group_db_create_fail</i>                    | (Optional) Destination Group Db Create Fail                    |
| <i>subscription_db_create_fail</i>                         | (Optional) Subscription Db Create Fail                         |
| <i>sensor_path_db_insert_fail</i>                          | (Optional) Sensor Path Db Insert Fail                          |
| <i>sensor_group_db_insert_fail</i>                         | (Optional) Sensor Group Db Insert Fail                         |
| <i>destination_db_insert_fail</i>                          | (Optional) Destination Db Insert Fail                          |
| <i>destination_group_db_insert_fail</i>                    | (Optional) Destination Group Db Insert Fail                    |
| <i>subscription_db_insert_fail</i>                         | (Optional) Subscription Db Insert Fail                         |
| <i>sensor_path_db_delete_fail</i>                          | (Optional) Sensor Path Db Delete Fail                          |
| <i>sensor_group_db_delete_fail</i>                         | (Optional) Sensor Group Db Delete Fail                         |
| <i>destination_db_delete_fail</i>                          | (Optional) Destination Db Delete Fail                          |
| <i>destination_group_db_delete_fail</i>                    | (Optional) Destination Group Db Delete Fail                    |
| <i>subscription_db_delete_fail</i>                         | (Optional) Subscription Db Delete Fail                         |
| <i>sensor_path_delete_in_use</i>                           | (Optional) Sensor Path Delete In Use                           |
| <i>sensor_group_delete_in_use</i>                          | (Optional) Sensor Group Delete In Use                          |
| <i>destination_delete_in_use</i>                           | (Optional) Destination Delete In Use                           |
| <i>destination_group_delete_in_use</i>                     | (Optional) Destination Group Delete In Use                     |
| <i>delete_destination_in_use_fail</i>                      | (Optional) Delete Destination In Use Fail                      |
| <i>sensor_path_sensor_group_list_create_fail</i>           | (Optional) Sensor Path Sensor Group List Create Fail           |
| <i>sensor_path_prop_list_create_fail</i>                   | (Optional) Sensor Path Prop List Create Fail                   |
| <i>sensor_path_secondary_sensor_path_list_create_fail</i>  | (Optional) Sensor Path Secondary Sensor Path List Create Fail  |
| <i>sensor_path_secondary_sensor_group_list_create_fail</i> | (Optional) Sensor Path Secondary Sensor Group List Create Fail |
| <i>sensor_group_sensor_path_list_create_fail</i>           | (Optional) Sensor Group Sensor Path List Create Fail           |
| <i>sensor_group_subscription_list_create_fail</i>          | (Optional) Sensor Group Subscription List Create Fail          |
| <i>destination_group_subscription_list_create_fail</i>     | (Optional) Destination Group Subscription List Create Fail     |
| <i>destination_group_destination_list_create_fail</i>      | (Optional) Destination Group Destination List Create Fail      |
| <i>destination_destination_group_list_create_fail</i>      | (Optional) Destination Destination Group List Create Fail      |
| <i>subscription_sensor_group_list_create_fail</i>          | (Optional) Subscription Sensor Group List Create Fail          |
| <i>subscription_destination_group_list_create_fail</i>     | (Optional) Subscription Destination Group List Create Fail     |



|   |   |
|---|---|
| <i>sensor_group_sensor_path_list_delete_fail</i>              | (Optional) Sensor Group Sensor Path List Delete Fail              |
| <i>sensor_group_subscription_list_delete_fail</i>             | (Optional) Sensor Group Subscription List Delete Fail             |
| <i>sensor_group_subscription_unsupported_data_source_fail</i> | (Optional) Sensor Group Subscription Unsupported Data Source Fail |
| <i>destination_group_subscription_list_delete_fail</i>        | (Optional) Destination Group Subscription List Delete Fail        |
| <i>destination_group_destination_list_delete_fail</i>         | (Optional) Destination Group Destination List Delete Fail         |
| <i>subscription_sensor_group_list_delete_fail</i>             | (Optional) Subscription Sensor Group List Delete Fail             |
| <i>subscription_destination_group_list_delete_fail</i>        | (Optional) Subscription Destination Group List Delete Fail        |
| <i>destination_destination_group_list_delete_fail</i>         | (Optional) Destination Destination Group List Delete Fail         |
| <i>destination_delete_from_destination_group_fail</i>         | (Optional) Destination Delete From Destination Group Fail         |
| <i>destination_group_delete_from_subscription_fail</i>        | (Optional) Destination Group Delete From Subscription Fail        |
| <i>sensor_group_delete_from_subscription_fail</i>             | (Optional) Sensor Group Delete From Subscription Fail             |
| <i>sensor_path_delete_from_sensor_group_fail</i>              | (Optional) Sensor Path Delete From Sensor Group Fail              |
| <i>get_encode_cb_fail</i>                                     | (Optional) Get Encode Cb Fail                                     |
| <i>get_transport_cb_fail</i>                                  | (Optional) Get Transport Cb Fail                                  |

**Command Mode**

- /exec

# show telemetry data collector brief

```
show telemetry data collector { brief| details } [ __readonly__ [ { TABLE_data_collector_brief <dcb_row_idx>
<dcb_collector_type> <dcb_success_count> <dcb_fail_count> <dcb_skip_count> } ] [ {
TABLE_data_collector_details <dcd_row_idx> <dcd_success_count> <dcd_fail_count> <dcd_skip_count>
<dcd_path_name> <dcd_grp_id> } ] ]
```

## Syntax Description

|                              |  |
|------------------------------|--|
| show                         | Show running system information            |
| telemetry                    | Show telemetry info                        |
| data                         | Show telemetry data info                   |
| collector                    | Show telemetry data collector info         |
| brief                        | Show component level data collection stats |
| details                      | Show path level data collection stats      |
| __readonly__                 | (Optional)                                 |
| TABLE_data_collector_brief   | (Optional) Data collector brief            |
| <i>dcb_row_idx</i>           | (Optional) Data collector brief index      |
| <i>dcb_collector_type</i>    | (Optional) Data collector type             |
| <i>dcb_success_count</i>     | (Optional) Data collector success count    |
| <i>dcb_fail_count</i>        | (Optional) Data collector fail count       |
| <i>dcb_skip_count</i>        | (Optional) Data collector skip count       |
| TABLE_data_collector_details | (Optional) Data collector details          |
| <i>dcd_row_idx</i>           | (Optional) Data collector row index        |
| <i>dcd_success_count</i>     | (Optional) Data collector success count    |
| <i>dcd_fail_count</i>        | (Optional) Data collector fail count       |
| <i>dcd_skip_count</i>        | (Optional) Data collector skip count       |
| <i>dcd_path_name</i>         | (Optional) Data collector path name        |
| <i>dcd_grp_id</i>            | (Optional) Data collector group ID         |

## Command Mode

- /exec

## show telemetry pipeline stats

```
show telemetry pipeline stats [ __readonly__ { main_statistics { timers <start_fail> } } { data_collector
<dnode_create_fail> } } { event_collector <enode_create_fail> <node_add_fail> <invalid_data> } } { memory
<allowed_limit> <occupied_mem> } } } { queue_statistics { TABLE_queue <queue_name> <actual_size>
<current_size> <max_size> <full_count> <enqueue_error> <dequeue_error> } } ]
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information        |
| telemetry                | Show telemetry info                    |
| pipeline                 | Show telemetry pipeline info           |
| stats                    | Show all telemetry pipeline stats      |
| <i>__readonly__</i>      | (Optional)                             |
| <i>main_statistics</i>   | (Optional) Main Statistics             |
| <i>timers</i>            | (Optional) Timers Statistics           |
| <i>start_fail</i>        | (Optional) Timers start failure        |
| <i>data_collector</i>    | (Optional) Data collector Statistics   |
| <i>dnode_create_fail</i> | (Optional) Data Node creation failure  |
| <i>event_collector</i>   | (Optional) Event collector Statistics  |
| <i>enode_create_fail</i> | (Optional) Event Node creation failure |
| <i>node_add_fail</i>     | (Optional) Node add failure            |
| <i>invalid_data</i>      | (Optional) Invalid data                |
| <i>memory</i>            | (Optional) Memory Statistics           |
| <i>allowed_limit</i>     | (Optional) Allowed memory limit        |
| <i>occupied_mem</i>      | (Optional) Occupied memory             |
| <i>queue_statistics</i>  | (Optional) Queue Statistics            |
| <i>TABLE_queue</i>       | (Optional) Queue table                 |
| <i>queue_name</i>        | (Optional) Queue name                  |
| <i>actual_size</i>       | (Optional) Actual size                 |
| <i>current_size</i>      | (Optional) Current size                |
| <i>max_size</i>          | (Optional) Maximum size                |

|                      |                          |
|----------------------|--------------------------|
| <i>full_count</i>    | (Optional) Full count    |
| <i>enqueue_error</i> | (Optional) Enqueue error |
| <i>dequeue_error</i> | (Optional) Dequeue error |

**Command Mode**

- /exec

# show telemetry transport

```
show telemetry transport [ <session_id> [ { stats | errors } ] ] [ __readonly__ [ { TABLE_transport_info
<session_idx> [ <ip_address> ] [ <port> ] [ <dest_info> ] [ <encoding_type> ] <transport_type>
<transport_status> [ <transport_security_cert_fname> ] [ <transport_last_connected> ] [
<transport_last_disconnected> ] [ <transport_errors_count> ] [ <transport_last_tx_error> } } ] [ <t_session_id>
] [ { transport_statistics [ { connect_statistics <connect_count> <last_connected> <disconnect_count>
<last_disconnected> } ] { trans_statistics <compression> <source_interface_name> <source_interface_ip>
<transmit_count> <last_tx_time> <min_tx_time> <max_tx_time> <avg_tx_time> <cur_tx_time> } } ] [ {
transport_errors { connect_errors <connect_errors_count> } { trans_errors <trans_errors_count> <last_tx_error>
[ <last_tx_return_code> ] } } ] [ { transport_retry_stats <ts_event_retry_bytes> <ts_event_retry_size>
<ts_timer_retry_bytes> <ts_timer_retry_size> <ts_retries_sent> <ts_retries_dropped> } ] [ <retry_buffer_size>
] [ <event_retry_bytes> ] [ <timer_retry_bytes> ] [ <retries_sent> ] [ <retries_dropped> ] ]
```

## Syntax Description

|                                      |   |
|--------------------------------------|---|
| show                                 | Show running system information         |
| telemetry                            | Show telemetry info                     |
| transport                            | Show telemetry transport info           |
| <i>session_id</i>                    | (Optional) Session id                   |
| stats                                | (Optional) Show all tm stat info        |
| errors                               | (Optional) Show all tm error info       |
| <i>__readonly__</i>                  | (Optional)                              |
| TABLE_transport_info                 | (Optional) Transport information        |
| <i>session_idx</i>                   | (Optional) Session Id                   |
| <i>ip_address</i>                    | (Optional) Transport IP address         |
| <i>port</i>                          | (Optional) Transport port               |
| <i>dest_info</i>                     | (Optional) Destination information      |
| <i>encoding_type</i>                 | (Optional) Encoding type                |
| <i>transport_type</i>                | (Optional) Transport type               |
| <i>transport_status</i>              | (Optional) Transport status             |
| <i>transport_security_cert_fname</i> | (Optional) Transport security file name |
| <i>transport_last_connected</i>      | (Optional) Transport last connected     |
| <i>transport_last_disconnected</i>   | (Optional) Transport last disconnected  |
| <i>transport_errors_count</i>        | (Optional) Transport errors count       |

|                                |   |
|--------------------------------|---|
| <i>transport_last_tx_error</i> | (Optional) Transport last tx error        |
| <i>transport_statistics</i>    | (Optional) Transport statistics           |
| <i>t_session_id</i>            | (Optional) Transport Session id           |
| <i>connect_statistics</i>      | (Optional) Connection statistics          |
| <i>connect_count</i>           | (Optional) Connection count               |
| <i>last_connected</i>          | (Optional) Last connected timestamp       |
| <i>disconnect_count</i>        | (Optional) Disconnect count               |
| <i>last_disconnected</i>       | (Optional) Last disconnected timestamp    |
| <i>trans_statistics</i>        | (Optional) Transport statistics           |
| <i>compression</i>             | (Optional) Compression status             |
| <i>source_interface_name</i>   | (Optional) Source interface name          |
| <i>source_interface_ip</i>     | (Optional) Source interface ip            |
| <i>transmit_count</i>          | (Optional) Transmission count             |
| <i>last_tx_time</i>            | (Optional) Last Transmission time         |
| <i>min_tx_time</i>             | (Optional) Minimum transmission time      |
| <i>max_tx_time</i>             | (Optional) Maximum transmission time      |
| <i>avg_tx_time</i>             | (Optional) Average transmission time      |
| <i>cur_tx_time</i>             | (Optional) Current transmission time      |
| <i>transport_errors</i>        | (Optional) Transport errors               |
| <i>connect_errors</i>          | (Optional) Connection errors              |
| <i>connect_errors_count</i>    | (Optional) Connection error count         |
| <i>trans_errors</i>            | (Optional) Transport errors               |
| <i>trans_errors_count</i>      | (Optional) Transport error count          |
| <i>last_tx_error</i>           | (Optional) Last transport error           |
| <i>last_tx_return_code</i>     | (Optional) Last transport return code     |
| <i>transport_retry_stats</i>   | (Optional) Retry Statistics               |
| <i>ts_event_retry_bytes</i>    | (Optional) Event Retry buffer size        |
| <i>ts_timer_retry_bytes</i>    | (Optional) Timer Retry buffer size        |
| <i>ts_event_retry_size</i>     | (Optional) Event Retry number of messages |

|                            |   |
|----------------------------|---|
| <i>ts_timer_retry_size</i> | (Optional) Timer Retry number of messages |
| <i>ts_retries_sent</i>     | (Optional) Number of retries sent         |
| <i>ts_retries_dropped</i>  | (Optional) Number of retries dropped      |
| <i>event_retry_bytes</i>   | (Optional) Event Retry buffer size        |
| <i>timer_retry_bytes</i>   | (Optional) Timer Retry buffer size        |
| <i>retries_sent</i>        | (Optional) Number of retries sent         |
| <i>retries_dropped</i>     | (Optional) Number of retries dropped      |
| <i>retry_buffer_size</i>   | (Optional) Retry buffer size              |

**Command Mode**

- /exec

# show telnet server

```
show telnet server [ __readonly__ { operation_status <o_status> } ]
```

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information                |
| telnet                  | Show telnet server configuration               |
| server                  | Show telnet server configuration               |
| <i>__readonly__</i>     | (Optional)                                     |
| <i>operation_status</i> | (Optional) run-time information about telnet   |
| <i>o_status</i>         | (Optional) operational status of telnet server |

## Command Mode

- /exec



# show terminal

```
show terminal [ __readonly__ { <terminal_tty> } { <terminal_type> } { <terminal_length> } {
<terminal_width> } { <session_timeout> } { <evnt_mgr_cli_evnt_bypass> } { <redirection_mode> } {
<acc_log_all_commands> } [ <vlan_mutex_value> ] { <vlan_batch_mode> } ]
```

## Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information           |
| terminal                        | Display terminal configuration parameters |
| <i>__readonly__</i>             | (Optional)                                |
| <i>terminal_tty</i>             | (Optional)                                |
| <i>terminal_type</i>            | (Optional)                                |
| <i>terminal_length</i>          | (Optional)                                |
| <i>terminal_width</i>           | (Optional)                                |
| <i>session_timeout</i>          | (Optional)                                |
| <i>evnt_mgr_cli_evnt_bypass</i> | (Optional)                                |
| <i>redirection_mode</i>         | (Optional)                                |
| <i>acc_log_all_commands</i>     | (Optional)                                |
| <i>vlan_mutex_value</i>         | (Optional)                                |
| <i>vlan_batch_mode</i>          | (Optional)                                |

## Command Mode

- /exec

# show terminal output xml version

show terminal output xml version [ \_\_readonly\_\_ { xml\_version <version> } ]

## Syntax Description

|                |                                 |
|----------------|---------------------------------|
| show           | Show running system information |
| terminal       | Display                         |
| output         | Display                         |
| xml            | Display                         |
| version        | Display                         |
| __readonly__   | (Optional)                      |
| xml_version    | (Optional) xml version          |
| <i>version</i> | (Optional) version              |

## Command Mode

- /exec

## show time-range

```
show time-range [ <name> ] [ __readonly__ TABLE_timerange <timerange_name> <active> [ TABLE_seqno
<seqno> { { absolute [ <start_abs_h> <start_abs_m> <start_abs_s> <start_abs_d> <start_abs_mon>
<start_abs_y> ] [ <end_abs_h> <end_abs_m> <end_abs_s> <end_abs_d> <end_abs_mon> <end_abs_y> ]
} | { periodic { Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday | daily | weekdays |
weekend } + <start_per_h> <start_per_m> <start_per_s> [ <eday> ] <end_per_h> <end_per_m> <end_per_s>
} | { <remark> } } ] ] ]
```

### Syntax Description

|                       |                                 |
|-----------------------|---------------------------------|
| show                  | Show running system information |
| time-range            | Define time range entries       |
| <i>name</i>           | (Optional) Time range name      |
| <i>__readonly__</i>   | (Optional)                      |
| TABLE_timerange       | (Optional)                      |
| <i>timerange_name</i> | (Optional)                      |
| <i>active</i>         | (Optional) active               |
| TABLE_seqno           | (Optional)                      |
| <i>seqno</i>          | (Optional) Sequence number      |
| absolute              | (Optional)                      |
| periodic              | (Optional)                      |
| <i>remark</i>         | (Optional)                      |
| <i>start_abs_h</i>    | (Optional)                      |
| <i>start_abs_m</i>    | (Optional)                      |
| <i>start_abs_s</i>    | (Optional)                      |
| <i>start_abs_d</i>    | (Optional)                      |
| <i>start_abs_mon</i>  | (Optional)                      |
| <i>start_abs_y</i>    | (Optional)                      |
| <i>end_abs_h</i>      | (Optional)                      |
| <i>end_abs_m</i>      | (Optional)                      |
| <i>end_abs_s</i>      | (Optional)                      |
| <i>end_abs_d</i>      | (Optional)                      |

|                    |                                  |
|--------------------|----------------------------------|
| <i>end_abs_mon</i> | (Optional)                       |
| <i>end_abs_y</i>   | (Optional)                       |
| Monday             | (Optional) Monday                |
| Tuesday            | (Optional) Tuesday               |
| Wednesday          | (Optional) Wednesday             |
| Thursday           | (Optional) Thursday              |
| Friday             | (Optional) Friday                |
| Saturday           | (Optional) Saturday              |
| Sunday             | (Optional) Sunday                |
| daily              | (Optional) Every day of the week |
| weekdays           | (Optional) Monday thru Friday    |
| weekend            | (Optional) Saturday and Sunday   |
| <i>start_per_h</i> | (Optional)                       |
| <i>start_per_m</i> | (Optional)                       |
| <i>start_per_s</i> | (Optional)                       |
| <i>eday</i>        | (Optional) Day of the week       |
| <i>end_per_h</i>   | (Optional)                       |
| <i>end_per_m</i>   | (Optional)                       |
| <i>end_per_s</i>   | (Optional)                       |

**Command Mode**

- /exec

# show time-stamp running-config last-changed

show time-stamp running-config last-changed [ \_\_readonly\_\_ <run\_config\_change\_time> ]

## Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information              |
| time-stamp                    | Time running-config last chnaged             |
| running-config                | Current operating configuration              |
| last-changed                  | Running configuration last changed           |
| __readonly__                  | (Optional) Read only                         |
| <i>run_config_change_time</i> | (Optional) Running-cfg last change timestamp |

## Command Mode

- /exec

# show trace callhome

show trace callhome

## Syntax Description

|          |  |
|----------|--|
| show     | Show XOS trace information                         |
| trace    | Show logging configuration and contents of logfile |
| callhome | Show callhome logging configuration                |

## Command Mode

- /exec

# show track

```
show track { [ <object-id> | interface | ip { route | sla } | ipv6 routev6 | list boolean and | list boolean or | list
threshold weight | list threshold percentage ] } [ __readonly__ { <show_track_start> { TABLE_track_detail
<st_obj_id> <st_obj_type> [ <st_obj_instance> ] <st_obj_param> <st_obj_timer_value> [ <st_obj_state> ]
[ <st_obj_chg_cnt> ] [ <st_last_chg_time> ] [ <st_threshold_info> ] [ <st_track_list_obj> ] + [ <st_vrf> ] [
<st_ipsla_rcode> ] [ <st_ipsla_rtt> ] [ <show_track_clnt_hdr> ] [ <show_track_clnt_start> ] [ {
TABLE_track_clnt_info <st_client_name> [ <st_client_iface> ] [ <st_client_group_id> ] [ <st_client_detail>
} ] } ] [ <show_track_clnt_end> ] [ <st_track_list_info> ] + <st_obj_up_delay> <st_obj_down_delay> }
<show_track_end> } ]
```

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Negate a command or set its defaults       |
| track                   | Tracking information                       |
| <i>object-id</i>        | (Optional) Tracked object                  |
| interface               | (Optional) Interface objects               |
| ip                      | (Optional) IPv4 Protocol objects           |
| route                   | (Optional) route (ipv4) objects            |
| sla                     | (Optional) Service Level Agreement objects |
| ipv6                    | (Optional) IPv6 Protocol objects           |
| routev6                 | (Optional) route (ipv6) objects            |
| list                    | (Optional) Tracklist objects               |
| boolean                 | (Optional) Boolean Traclist                |
| and                     | (Optional) AND boolean objects             |
| or                      | (Optional) OR boolean objects              |
| threshold               | (Optional) Threshold parameters            |
| weight                  | (Optional) Threshold weight                |
| percentage              | (Optional) Threshold percentage            |
| __readonly__            | (Optional) Read only                       |
| <i>show_track_start</i> | (Optional) Show track start                |
| TABLE_track_detail      | (Optional) Track table detail              |
| <i>st_obj_id</i>        | (Optional) Object id                       |
| <i>st_obj_type</i>      | (Optional) Object Type                     |

|                              |  |
|------------------------------|--|
| <i>st_obj_instance</i>       | (Optional) Object instance               |
| <i>st_obj_param</i>          | (Optional) Object parameter              |
| <i>st_obj_timer_value</i>    | (Optional) Current value of timer        |
| <i>st_obj_state</i>          | (Optional) Object status                 |
| <i>st_obj_chg_cnt</i>        | (Optional) Count of Object state changes |
| <i>st_last_chg_time</i>      | (Optional) Timestamp of last change      |
| <i>st_threshold_info</i>     | (Optional) Threshold Parameters          |
| <i>st_track_list_obj</i>     | (Optional) Objects part of this list     |
| <i>st_vrf</i>                | (Optional) VRF                           |
| <i>st_ipsla_rcode</i>        | (Optional) IP SLA Return Code            |
| <i>st_ipsla_rtt</i>          | (Optional) IP SLA RTT                    |
| <i>show_track_clnt_hdr</i>   | (Optional) Tracked by:                   |
| <i>show_track_clnt_start</i> | (Optional) Show track client start       |
| TABLE_track_clnt_info        | (Optional) Track client info             |
| <i>st_client_name</i>        | (Optional) Tracking client name          |
| <i>st_client_iface</i>       | (Optional) Tracking client interface     |
| <i>st_client_group_id</i>    | (Optional) Client group id               |
| <i>st_client_detail</i>      | (Optional) Tracking client detail        |
| <i>show_track_clnt_end</i>   | (Optional) End of track client           |
| <i>st_track_list_info</i>    | (Optional) Track list info               |
| <i>st_obj_up_delay</i>       | (Optional) Delay up notification         |
| <i>st_obj_down_delay</i>     | (Optional) Delay down notification       |
| <i>show_track_end</i>        | (Optional) End of Track                  |

### Command Mode

- /exec



## show track brief

```
show track { [ <object-id> | interface | ip { route | sla } | ipv6 routev6 | list boolean and | list boolean or | list
threshold weight | list threshold percentage ] } brief [ __readonly__ { <show_track_brf_start>
<show_track_brf_all_begin> { TABLE_track_brief<st_brf_obj_id> <st_brf_obj_type> <st_brf_obj_instance>
<st_brf_obj_param> <st_brf_obj_state> <st_brf_last_chg_time> } <show_track_brf_end> } ]
```

### Syntax Description

|                                 |  |
|---------------------------------|--|
| show                            | Negate a command or set its defaults       |
| track                           | Tracking information                       |
| <i>object-id</i>                | (Optional) Tracked object                  |
| interface                       | (Optional) Interface objects               |
| ip                              | (Optional) IPv4 Protocol objects           |
| route                           | (Optional) route (ipv4) objects            |
| sla                             | (Optional) Service Level Agreement objects |
| ipv6                            | (Optional) IPv6 Protocol objects           |
| routev6                         | (Optional) route (ipv6) objects            |
| list                            | (Optional) Tracklist objects               |
| boolean                         | (Optional) Boolean Traclist                |
| and                             | (Optional) AND boolean objects             |
| or                              | (Optional) OR boolean objects              |
| threshold                       | (Optional) Threshold parameters            |
| weight                          | (Optional) Threshold weight                |
| percentage                      | (Optional) Threshold percentage            |
| brief                           | Brief output                               |
| <i>__readonly__</i>             | (Optional) Read only                       |
| <i>show_track_brf_start</i>     | (Optional) Show track brief start          |
| <i>show_track_brf_all_begin</i> | (Optional) Start of all brief              |
| TABLE_track_brief               | (Optional) Track table brief               |
| <i>st_brf_obj_id</i>            | (Optional) Object id                       |
| <i>st_brf_obj_type</i>          | (Optional) Object Type                     |

|                             |                                     |
|-----------------------------|-------------------------------------|
| <i>st_brf_obj_instance</i>  | (Optional) Object instance          |
| <i>st_brf_obj_param</i>     | (Optional) Object parameter         |
| <i>st_brf_obj_state</i>     | (Optional) Object status            |
| <i>st_brf_last_chg_time</i> | (Optional) Timestamp of last change |
| <i>show_track_brf_end</i>   | (Optional) End of Group             |

**Command Mode**

- /exec

## show troubleshoot l3 vrf

```
show troubleshoot l3 { ipv4 { <dip4-prefix> | <ip-prefix> } [ src-ip <sip4-prefix> ] | ipv6 { <dip6-prefix> | <ip6-prefix> } [ src-ip <sip6-prefix> ] } vrf <vrf-name>
```

### Syntax Description

|                    |   |
|--------------------|---|
| show               |   |
| troubleshoot       | Display troubleshoot data dump                        |
| l3                 | Display l3 information                                |
| ipv4               | Choose IPv4 address                                   |
| ipv6               | Choose IPv6 address                                   |
| <i>dip4-prefix</i> | Display single exact match route for Destination IP   |
| <i>ip-prefix</i>   | Display single exact match route, specify prefix/mask |
| vrf                | check routes for a specific VRF                       |
| <i>vrf-name</i>    | vrf name  |
| src-ip             | (Optional) Source IP for routing hash CLI             |
| <i>sip4-prefix</i> | (Optional) Source IPv4 address                        |

### Command Mode

- /exec

# show trunk protocol

show trunk protocol [ \_\_readonly\_\_ <trunk\_protocol\_status> ]

## Syntax Description

|                              |                                  |
|------------------------------|----------------------------------|
| show                         | Show running system information  |
| trunk                        | Show trunk information           |
| protocol                     | Show trunk protocol information  |
| __readonly__                 | (Optional)                       |
| <i>trunk_protocol_status</i> | (Optional) trunk protocol status |

## Command Mode

- /exec

# show ttag brief

```
show ttag brief [ __readonly__ { TABLE_ttag <ttag-ifindex> <state> } <ttag-end> ]
```

## Syntax Description

|                           |   |
|---------------------------|---|
| <code>ttag</code>         | enable ingress packet with ttag on this interface |
| <code>brief</code>        | ttag port in brief list                           |
| <code>__readonly__</code> | (Optional) Read Only                              |
| <code>TABLE_ttag</code>   | (Optional) ttag table                             |
| <code>ttag-ifindex</code> | (Optional) ttag ifindex                           |
| <code>ttag-end</code>     | (Optional) End of table                           |
| <code>state</code>        | (Optional) TTAG state                             |

## Command Mode

- /exec





## U Show Commands

---

- [show uddl](#), on page 2712
- [show uddl global](#), on page 2714
- [show uddl neighbors](#), on page 2715
- [show user-account](#), on page 2716
- [show username keypair](#), on page 2717
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## show uddld

```
show uddld [ <if0> ] [ __readonly__ TABLE_interface <interface> <mib-port-status> <mib-oper-status>
<mib-aggressive-mode> <admin-port-mode> <operational-port-mode> <current-bidirectional-state>
<current-operational-state> <no-multiple-neighbor-detected> <message-interval> <timeout-interval>
TABLE_entry [ <entry-number> ] [ <expiration-time> ] [ <device-id> ] [ <neighbor-state> ] [ <device-name>
] [ <port-id> ] [ <neighbor-echo-device-number> ] [ <neighbor-echo-device-name> ] [
<neighbor-echo-port-number> ] [ <neighbor-echo-port-id> ] [ <neighbor-message-interval> ] [
<neighbor-timeout-interval> ] [ <cdp-device-name> ] [ <pkt-xmt-rec-time> ] + [ <pc-index> ] ]
```

### Syntax Description

|                                      |   |
|--------------------------------------|---|
| show                                 | Show running system information   |
| uddld                                | UDLD status and configuration on one or all interfaces                            |
| <i>if0</i>                           | (Optional) Enter an interface name if only one single interface status is desired |
| <i>__readonly__</i>                  | (Optional)  |
| TABLE_interface                      | (Optional)  |
| <i>interface</i>                     | (Optional) Interface ID   |
| <i>mib-port-status</i>               | (Optional) Port MIB enable status   |
| <i>mib-oper-status</i>               | (Optional) Port MIB Operational status  |
| <i>mib-aggressive-mode</i>           | (Optional) Port MIB aggressive mode   |
| <i>admin-port-mode</i>               | (Optional) Port enable administration configuration setting                       |
| <i>operational-port-mode</i>         | (Optional) Port enable operational state  |
| <i>current-bidirectional-state</i>   | (Optional) Current bidirectional state  |
| <i>current-operational-state</i>     | (Optional) Current operational state  |
| <i>no-multiple-neighbor-detected</i> | (Optional) No multiple neighbor detected  |
| <i>message-interval</i>              | (Optional) UDLD probe message interval  |
| <i>timeout-interval</i>              | (Optional) UDLD detection timeout interval  |
| TABLE_entry                          | (Optional) Neighbor entry info  |
| <i>entry-number</i>                  | (Optional) Neighbor entry number  |
| <i>expiration-time</i>               | (Optional) Expiration time  |
| <i>device-id</i>                     | (Optional) Device ID  |
| <i>neighbor-state</i>                | (Optional) Current neighbor state   |



|                                    |  |
|------------------------------------|--|
| <i>device-name</i>                 | (Optional) Device name                     |
| <i>port-id</i>                     | (Optional) Port ID                         |
| <i>neighbor-echo-device-number</i> | (Optional) Echo device number              |
| <i>neighbor-echo-device-name</i>   | (Optional) Echo device name                |
| <i>neighbor-echo-port-number</i>   | (Optional) Echo port number                |
| <i>neighbor-echo-port-id</i>       | (Optional) Echo port ID                    |
| <i>neighbor-message-interval</i>   | (Optional) UDLD probe message interval     |
| <i>neighbor-timeout-interval</i>   | (Optional) UDLD detection timeout interval |
| <i>cdp-device-name</i>             | (Optional) CDP Device name                 |
| <i>pkt-xmt-rec-time</i>            | (Optional) Last UDLD packet send/recv time |
| <i>pc-index</i>                    | (Optional) Port channel index              |

**Command Mode**

- /exec

# show udd global

show udd global [ *\_\_readonly\_\_* <udld-global-mode> <message-interval> ]

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information                        |
| udd                     | UDLD protocol  |
| global                  | UDLD global status and configuration on all interfaces |
| <i>__readonly__</i>     | (Optional)   |
| <i>udld-global-mode</i> | (Optional) UDLD global configuration setting           |
| <i>message-interval</i> | (Optional) UDLD probe message interval                 |

## Command Mode

- /exec

# show udd neighbors

show udd neighbors [ *\_\_readonly\_\_* *TABLE\_entry* <local-port-id> <neighbor-echo-device-name> <device-id> <neighbor-echo-port-id> <neighbor-state> ]

## Syntax Description

|                                  |                                   |
|----------------------------------|-----------------------------------|
| show                             | Show running system information   |
| udd                              | UDLD protocol                     |
| neighbors                        | UDLD neighbor interfaces          |
| <i>__readonly__</i>              | (Optional)                        |
| <i>TABLE_entry</i>               | (Optional)                        |
| <i>local-port-id</i>             | (Optional) Local port ID          |
| <i>neighbor-echo-device-name</i> | (Optional) Echo device name       |
| <i>device-id</i>                 | (Optional) Device ID              |
| <i>neighbor-echo-port-id</i>     | (Optional) Echo port ID           |
| <i>neighbor-state</i>            | (Optional) Current neighbor state |

## Command Mode

- /exec

# show user-account

```
show user-account [ <s0> ] [ __readonly__ TABLE_template <usr_name> [ <expire_date> ] { TABLE_role
<role> } [ <remote_login> ] [ <sshkey_info> ] { [ TABLE_keys <ssh_keys> ] } ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                                    |
| TABLE_template      | (Optional)   |
| TABLE_role          | (Optional)   |
| TABLE_keys          | (Optional)   |
| __readonly__        | (Optional)   |
| <i>usr_name</i>     | (Optional) Name of the user  |
| <i>expire_date</i>  | (Optional) Expiry date for this user account(in YYYY-MM-DD format) |
| <i>role</i>         | (Optional) role/s which the user is to be assigned to              |
| <i>remote_login</i> | (Optional) Remote account information for a remote user            |
| <i>sshkey_info</i>  | (Optional) SSH key information of user                             |
| <i>ssh_keys</i>     | (Optional) SSH key pairs of the user                               |
| user-account        | Show user information  |
| <i>s0</i>           | (Optional) User name   |

## Command Mode

- /exec

# show username keypair

```
show username <s0> keypair [ __readonly__ { TABLE_sessions <t_type> <t_time> <t_keys> <t_bitcount>
<t_fingerprint> } ]
```

## Syntax Description

|                      |                                 |
|----------------------|---------------------------------|
| show                 | Show running system information |
| username             | Show user information.          |
| keypair              | Show SSH keypairs               |
| <i>s0</i>            | user name                       |
| __readonly__         | (Optional)                      |
| TABLE_sessions       | (Optional) username keypair     |
| <i>t_type</i>        | (Optional) keys type            |
| <i>t_time</i>        | (Optional) timestamp            |
| <i>t_keys</i>        | (Optional) ssh key              |
| <i>t_bitcount</i>    | (Optional) bitcount             |
| <i>t_fingerprint</i> | (Optional) fingerprint          |

## Command Mode

- /exec

## show username passphrase timevalues

```
show username <username> passphrase timevalues [ __readonly__ [ timevalues [ <tvalue> ] ] [
passphrase_change <last_passphrase_change> ] [ Default_lifetime <def_ltime> ] [ Default_warntime
<def_wrntime> ] [ Default_gracetime <def_gtime> ] ]
```

### Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information                          |
| username                      | Configure user information.                              |
| <i>username</i>               | user name  |
| passphrase                    | user passphrase  |
| timevalues                    | passphrase lifetime, warningtime and gracetime           |
| <i>__readonly__</i>           | (Optional)   |
| timevalues                    | (Optional) Timevalues of the Passphrase                  |
| <i>tvalue</i>                 | (Optional) Absolute time values of the Passphrase        |
| passphrase_change             | (Optional) passphrase last change date                   |
| <i>last_passphrase_change</i> | (Optional) absolute last passphrase change date          |
| Default_lifetime              | (Optional) Default Lifetime of the Passphrase            |
| <i>def_ltime</i>              | (Optional) Absolute life time value of the passphrase    |
| Default_warntime              | (Optional) Default Warningtime of the Passphrase         |
| <i>def_wrntime</i>            | (Optional) Absolute warning time value of the Passphrase |
| Default_gracetime             | (Optional) Default Grace time of the Passphrase          |
| <i>def_gtime</i>              | (Optional) Absolute Grace time value of the Passphrase   |

### Command Mode

- /exec

# show userpassphrase

```
show userpassphrase { default-lifetime | default-warntime | default-gracetime | timevalues } [ __readonly__
[ Default_warntime <def_wrntime> ] [ Default_gracetime <def_gtime> ] [ Default_lifetime <def_ltime> ] ]
```

## Syntax Description

|                    |  |
|--------------------|--|
| show               | Show running system information                          |
| userpassphrase     | user passphrase  |
| default-lifetime   | passphrase default lifetime                              |
| default-warntime   | passphrase default warningtime                           |
| default-gracetime  | passphrase default gracetime                             |
| timevalues         | passphrase lifetime, warning time and gracetime          |
| __readonly__       | (Optional)   |
| Default_warntime   | (Optional) Default Warningtime of the Passphrase         |
| <i>def_wrntime</i> | (Optional) Absolute warning time value of the Passphrase |
| Default_gracetime  | (Optional) Default Grace time of the Passphrase          |
| <i>def_gtime</i>   | (Optional) Absolute Grace time value of the Passphrase   |
| Default_lifetime   | (Optional) Default Lifetime of the Passphrase            |
| <i>def_ltime</i>   | (Optional) Absolute life time value of the passphrase    |

## Command Mode

- /exec

# show userpassphrase

```
show userpassphrase { min-length | max-length | length } [ __readonly__ [ Minimum_length <min_length>
] [ Maximum_length <max_length> ] ]
```

## Syntax Description

|                   |   |
|-------------------|---|
| show              | Show running system information                 |
| userpassphrase    | user passphrase                                 |
| min-length        | passphrase minimum length                       |
| max-length        | passphrase maximum length                       |
| length            | passphrase min and max length                   |
| __readonly__      | (Optional)                                      |
| Minimum_length    | (Optional) minimum length of the passphrase     |
| <i>min_length</i> | (Optional) Absolute value of the Minimum length |
| Maximum_length    | (Optional) Maximum length of the passphrase     |
| <i>max_length</i> | (Optional) Absolute value of max length         |

## Command Mode

- /exec



# show users

```
show users [ __readonly__ { TABLE_sessions <u_name> <t_terminal> <t_time> <t_idle> <p_pid>
<c_comment> } ]
```

## Syntax Description

|                   |   |
|-------------------|---|
| show              | Show running system information             |
| users             | Show the current users logged in the system |
| __readonly__      | (Optional)                                  |
| TABLE_sessions    | (Optional) users table                      |
| <i>u_name</i>     | (Optional) user name                        |
| <i>t_terminal</i> | (Optional) terminal                         |
| <i>t_time</i>     | (Optional) time                             |
| <i>t_idle</i>     | (Optional) idle                             |
| <i>p_pid</i>      | (Optional) pid                              |
| <i>c_comment</i>  | (Optional) comment                          |

## Command Mode

- /exec





## V Show Commands

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- [show vsan membership](#), on page 2801
- [show vsan membership interface](#), on page 2802
- [show vsan usage](#), on page 2803
- [show vtp counters](#), on page 2804
- [show vtp interface](#), on page 2805
- [show vtp password](#), on page 2806
- [show vtp status](#), on page 2807

# show vdc

```
{ show vdc [ <e-vdc2> ] [ feature-set | detail | membership [ all | status | module <module> ] | shared membership
] [ __readonly__ [ detail2 ] [ <swmode> ] { TABLE_vdc <vdc_id> <vdc_name> <state> <mac> <hap> <sw>
<boot_order> [ <prio> <prio_per> ] [ <create_time> ] [ <reload_count> ] [ <restart_count> ] [ <restart_time>
] [ <restart_reason> ] <vtype> <lc-support> [ TABLE_fs <fs_id> <fs_name> ] [ TABLE_port <port-list> ]
} ] }
```

## Syntax Description

|                     |   |
|---------------------|---|
| show                | Show Virtual Device Contexts  |
| vdc                 | Show Virtual Device Contexts  |
| <i>e-vdc2</i>       | (Optional) Enter Virtual Device Context <vdc-id>                                |
| detail              | (Optional) Show detailed vdc information  |
| membership          | (Optional) Show vdc interface membership information                            |
| shared              | (Optional) Show the shared interfaces in a vdc                                  |
| membership          | (Optional) Show the shared interfaces in a vdc                                  |
| module              | (Optional) Show vdc interface membership information for a specific module only |
| <i>module</i>       | (Optional) Show vdc interface membership information for a specific module only |
| status              | (Optional) Show vdc related port-status   |
| feature-set         | (Optional) Show vdc feature-set information                                     |
| all                 | (Optional) Show offline modules as well   |
| <u>__readonly__</u> | (Optional) Read Only  |
| detail2             | (Optional)  |
| <i>swmode</i>       | (Optional)  |
| TABLE_vdc           | (Optional)  |
| <i>vdc_id</i>       | (Optional) vdc-id   |
| TABLE_port          | (Optional)  |
| <i>port-list</i>    | (Optional) port membership for VDC  |
| <i>vdc_name</i>     | (Optional) vdc-name   |
| <i>state</i>        | (Optional) state  |
| <i>mac</i>          | (Optional) mac address for VDC  |

|                       |                       |
|-----------------------|-----------------------|
| <i>hap</i>            | (Optional) hap policy |
| <i>sw</i>             | (Optional) sw policy  |
| <i>vtype</i>          | (Optional)            |
| <i>lc-support</i>     | (Optional)            |
| <i>create_time</i>    | (Optional)            |
| <i>reload_count</i>   | (Optional)            |
| <i>restart_count</i>  | (Optional)            |
| <i>restart_time</i>   | (Optional)            |
| <i>restart_reason</i> | (Optional)            |
| TABLE_fs              | (Optional)            |
| <i>fs_id</i>          | (Optional) fs id      |
| <i>fs_name</i>        | (Optional)            |
| <i>boot_order</i>     | (Optional)            |
| <i>prio</i>           | (Optional)            |
| <i>prio_per</i>       | (Optional)            |

### Command Mode

- /exec

# show vdc current-vdc

```
show vdc current-vdc [ __readonly__ <mode> <name> ]
```

## Syntax Description

|              |                                     |
|--------------|-------------------------------------|
| show         | Show Virtual Device Contexts        |
| vdc          | Show Virtual Device Contexts        |
| current-vdc  | Show which vdc you are currently in |
| __readonly__ | (Optional) Read Only                |
| <i>mode</i>  | (Optional) cli mode                 |
| <i>name</i>  | (Optional) vdc name                 |

## Command Mode

- /exec

# show vdc fcoe-vlan-range

show vdc fcoe-vlan-range [ *\_\_readonly\_\_* <fcoe-vdc> [ <fcoe-vlans> ] [ <sharing-vdcs> ] ]

## Syntax Description

|                     |                              |
|---------------------|------------------------------|
| show                | Show Virtual Device Contexts |
| vdc                 | Show Virtual Device Contexts |
| fcoe-vlan-range     | vlans reserved for FCoE      |
| <i>__readonly__</i> | (Optional) Read Only         |
| <i>fcoe-vdc</i>     | (Optional)                   |
| <i>sharing-vdcs</i> | (Optional)                   |
| <i>fcoe-vlans</i>   | (Optional)                   |

## Command Mode

- /exec



## show vdc resource

```
show vdc <id> resource [ <res-mgr-res-known-name> ] [ __readonly__ { TABLE_vdc_resource_single_vdc
<res_name> <min> <max> <used> <unused> <free> } ]
```

### Syntax Description

|                               |  |
|-------------------------------|--|
| show                          | Show running system information                                  |
| vdc                           | Show Virtual Device Contexts                                     |
| <i>id</i>                     | Enter Virtual Device Context <vdc-id>                            |
| resource                      | Show resource configuration for VDC                              |
| <i>res-mgr-res-known-name</i> | (Optional) Resource name   |
| <i>__readonly__</i>           | (Optional) Read Only   |
| <i>res_name</i>               | (Optional) Resource Name   |
| <i>min</i>                    | (Optional) Resource min configuration                            |
| <i>max</i>                    | (Optional) Resource max configuration                            |
| <i>used</i>                   | (Optional) Resource current usage for this VDC                   |
| <i>unused</i>                 | (Optional) Resource reserved for this VDC but currently not used |
| <i>free</i>                   | (Optional) Resource current free for this VDC                    |
| TABLE_vdc_resource_single_vdc | (Optional)   |

### Command Mode

- /exec

## show vdc resource

```
show vdc resource [ <res-mgr-res-known-name> ] [ detail | hidden-too | with-flags ] + [ __readonly__ {
TABLE_resource <resource_name> <total_used> <total_unused> <total_free> <total_avail> <total> [
TABLE_vdc_resource_across_vdcs <vdc_name> <min> <max> <used> <unused> <free> } } ]
```

### Syntax Description

|                                |   |
|--------------------------------|---|
| show                           | Show running system information                                     |
| vdc                            | Show Virtual Device Contexts  |
| resource                       | Show resource configuration across VDCs                             |
| <i>res-mgr-res-known-name</i>  | (Optional) Resource name  |
| detail                         | (Optional) Show detail resource configuration                       |
| hidden-too                     | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                           |
| with-flags                     | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED                           |
| <i>__readonly__</i>            | (Optional) Read Only  |
| TABLE_resource                 | (Optional)  |
| <i>resource_name</i>           | (Optional) Resource Name  |
| <i>total_used</i>              | (Optional) Resource current usage for all VDC                       |
| <i>total_unused</i>            | (Optional) Resources currently reserved but not used across all VDC |
| <i>total_free</i>              | (Optional) Resource current free for all VDC                        |
| <i>total_avail</i>             | (Optional) Resource current available across all VDC                |
| <i>total</i>                   | (Optional) Resources grand total                                    |
| TABLE_vdc_resource_across_vdcs | (Optional)  |
| <i>vdc_name</i>                | (Optional) VDC name   |
| <i>min</i>                     | (Optional) Resource min configuration                               |
| <i>max</i>                     | (Optional) Resource max configuration                               |
| <i>used</i>                    | (Optional) Resource current usage for this VDC                      |
| <i>unused</i>                  | (Optional) Resource reserved for this VDC but currently not used    |
| <i>free</i>                    | (Optional) Resource current free for this VDC                       |

### Command Mode

- /exec

# show vdc resource template

```
show vdc resource template [ <res-mgr-template-known-name-all> ] [ __readonly__ TABLE_template
<template_name> { TABLE_resource <resource_name> <min> <max> } ]
```

## Syntax Description

|  |                                       |
|--|---------------------------------------|
| show                                   | Show running system information       |
| vdc                                    | Show Virtual Device Contexts          |
| resource                               | Show resource configuration for VDC   |
| template                               | Resource template configuration       |
| <i>res-mgr-template-known-name-all</i> | (Optional) Resource template name     |
| <i>__readonly__</i>                    | (Optional) Read Only                  |
| TABLE_template                         | (Optional)                            |
| <i>template_name</i>                   | (Optional) Resource Template Name     |
| TABLE_resource                         | (Optional)                            |
| <i>resource_name</i>                   | (Optional) Resource Name              |
| <i>min</i>                             | (Optional) Resource min configuration |
| <i>max</i>                             | (Optional) Resource max configuration |

## Command Mode

- /exec

## show version

```
show version [ __readonly__ <header_str> <bios_ver_str> [ <loader_ver_str> ] <kickstart_ver_str>
<nxos_ver_str> [ <sys_ver_str> ] <bios_cmpl_time> <kick_file_name> <nxos_file_name> <kick_cmpl_time>
<nxos_cmpl_time> <kick_tmstamp> <nxos_tmstamp> [ <isan_file_name> ] [ <isan_cmpl_time> ] [
<isan_tmstamp> ] [ <boot_lxc_mode> ] <chassis_id> [ <module_id> ] <cpu_name> <memory> <mem_type>
<proc_board_id> <host_name> <bootflash_size> [ <slot0_size> ] [ <slot1_size> ] <kern_uptm_days>
<kern_uptm_hrs> <kern_uptm_mins> <kern_uptm_secs> [ <rr_usecs> ] [ <rr_ctime> ] <rr_reason>
<rr_sys_ver> <rr_service> <plugins> <manufacturer> [ TABLE_smu_list <install_smu_id> + ] [
TABLE_package_list <package_id> + ] ]
```

### Syntax Description

|                          |                           |
|--------------------------|---------------------------|
| show                     |                           |
| version                  | Show the software version |
| <i>__readonly__</i>      | (Optional)                |
| <i>header_str</i>        | (Optional)                |
| <i>bios_ver_str</i>      | (Optional)                |
| <i>loader_ver_str</i>    | (Optional)                |
| <i>kickstart_ver_str</i> | (Optional)                |
| <i>nxos_ver_str</i>      | (Optional)                |
| <i>sys_ver_str</i>       | (Optional)                |
| <i>bios_cmpl_time</i>    | (Optional)                |
| <i>kick_file_name</i>    | (Optional)                |
| <i>nxos_file_name</i>    | (Optional)                |
| <i>kick_cmpl_time</i>    | (Optional)                |
| <i>nxos_cmpl_time</i>    | (Optional)                |
| <i>kick_tmstamp</i>      | (Optional)                |
| <i>nxos_tmstamp</i>      | (Optional)                |
| <i>isan_file_name</i>    | (Optional)                |
| <i>isan_cmpl_time</i>    | (Optional)                |
| <i>isan_tmstamp</i>      | (Optional)                |
| <i>boot_lxc_mode</i>     | (Optional)                |
| <i>chassis_id</i>        | (Optional)                |

|                       |                         |
|-----------------------|-------------------------|
| <i>module_id</i>      | (Optional)              |
| <i>cpu_name</i>       | (Optional)              |
| <i>memory</i>         | (Optional)              |
| <i>mem_type</i>       | (Optional)              |
| <i>proc_board_id</i>  | (Optional)              |
| <i>host_name</i>      | (Optional)              |
| <i>bootflash_size</i> | (Optional)              |
| <i>slot0_size</i>     | (Optional)              |
| <i>slot1_size</i>     | (Optional)              |
| <i>kern_uptm_days</i> | (Optional)              |
| <i>kern_uptm_hrs</i>  | (Optional)              |
| <i>kern_uptm_mins</i> | (Optional)              |
| <i>kern_uptm_secs</i> | (Optional)              |
| <i>rr_usec</i>        | (Optional)              |
| <i>rr_ctime</i>       | (Optional)              |
| <i>rr_reason</i>      | (Optional)              |
| <i>rr_sys_ver</i>     | (Optional)              |
| <i>rr_service</i>     | (Optional)              |
| <i>plugins</i>        | (Optional)              |
| <i>manufacturer</i>   | (Optional)              |
| TABLE_smu_list        | (Optional)              |
| <i>install_smu_id</i> | (Optional)              |
| TABLE_package_list    | (Optional)              |
| <i>package_id</i>     | (Optional) Package name |

### Command Mode

- /exec

# show version epld

```
show version epld <uri0> [ __readonly__ <image-info> [ { TABLE_module_info <module-type> <model>
<epld-device> <version> } ] ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information            |
| version             | Show the software version                  |
| epld                | Show EPLD versions available in EPLD image |
| <i>uri0</i>         | Local URI containing EPLD Image            |
| <i>__readonly__</i> | (Optional)                                 |
| <i>image-info</i>   | (Optional) image file info                 |
| TABLE_module_info   | (Optional)                                 |
| <i>module-type</i>  | (Optional) module type                     |
| <i>model</i>        | (Optional) model                           |
| <i>epld-device</i>  | (Optional) epld device                     |
| <i>version</i>      | (Optional) version                         |

## Command Mode

- /exec

# show version image

```
show version image <uri0> [ __readonly__ <md5_str> <img_file_name> [ <bios_ver_str> ] <sys_ver_str>
<img_cmpl_time> [ <img_tmstamp> ] ]
```

## Syntax Description

|                      |  |
|----------------------|--|
| show                 | Show running system information            |
| version              | Show the software version                  |
| image                | Show the software version of a given image |
| <i>uri0</i>          | Enter URI                                  |
| <i>__readonly__</i>  | (Optional)                                 |
| <i>md5_str</i>       | (Optional)                                 |
| <i>img_file_name</i> | (Optional)                                 |
| <i>bios_ver_str</i>  | (Optional)                                 |
| <i>sys_ver_str</i>   | (Optional)                                 |
| <i>img_cmpl_time</i> | (Optional)                                 |
| <i>img_tmstamp</i>   | (Optional)                                 |

## Command Mode

- /exec

# show version module

```
show version module <module> [ __readonly__ { TABLE_version <slot> <type> <sw> <interim> <bios> } ]
```

## Syntax Description

|                     |                                       |
|---------------------|---------------------------------------|
| show                | Show running system information       |
| version             | Show the software version             |
| module              | Show the software version of a Module |
| <i>module</i>       | Enter module number                   |
| <i>__readonly__</i> | (Optional)                            |
| TABLE_version       | (Optional) Show version info          |
| <i>slot</i>         | (Optional) Slot                       |
| <i>type</i>         | (Optional) image type                 |
| <i>sw</i>           | (Optional) SW version                 |
| <i>interim</i>      | (Optional) SW interim version         |
| <i>bios</i>         | (Optional) BIOS version               |

## Command Mode

- /exec



## show virtual-service

```
show virtual-service [ { list } | { global } | { detail [ name <virt_serv_name> ] } | { core [ name
<virt_serv_name_core> ] } ] [ __readonly__ [ <infrastructure_major_version> <infrastructure_minor_version>
<total_virtual_services_installed> <total_virtual_services_activated> <machine_types_supported>
<machine_types_disabled> <maximum_vcpus_per_virtual_service> TABLE_resource_limits <media_name>
<quota> <committed> <available> ] [ TABLE_list <name> <status> <package_name> ] [ TABLE_detail
<name> <state> <package_name> <ova_path> <application_name> <application_version>
<application_description> <key_type> <signing_method> <licensing_name> <licensing_version>
<disk_reservation> <memory_reservation> <cpu_reservation> TABLE_attached_devices <type> <name>
<alias> ] [ TABLE_core <name> <name_core> ] ]
```

### Syntax Description

|  |   |
|--|---|
| show                                     | Show running system information                       |
| virtual-service                          | Display virtualization service information            |
| global                                   | (Optional) Virtual service global information         |
| list                                     | (Optional) List virtual services                      |
| detail                                   | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED             |
| core                                     | (Optional) Core information                           |
| name                                     | (Optional) Information for a specific virtual service |
| <i>virt_serv_name</i>                    | (Optional) Name of a virtual service                  |
| <i>virt_serv_name_core</i>               | (Optional) Name of a virtual service                  |
| <i>__readonly__</i>                      | (Optional) Read Only                                  |
| <i>infrastructure_major_version</i>      | (Optional) Infrastructure major version               |
| <i>infrastructure_minor_version</i>      | (Optional) Infrastructure minor version               |
| <i>total_virtual_services_installed</i>  | (Optional) Total virtual services installed           |
| <i>total_virtual_services_activated</i>  | (Optional) Total virtual services activated           |
| <i>maximum_vcpus_per_virtual_service</i> | (Optional) Maximum VCPUs per virtual service          |
| <i>machine_types_supported</i>           | (Optional) Machine types supported                    |
| <i>machine_types_disabled</i>            | (Optional) Machine types disabled                     |
| TABLE_resource_limits                    | (Optional) Virtual service global resource limits     |
| <i>media_name</i>                        | (Optional) Resource name                              |
| <i>quota</i>                             | (Optional) Resource Virtualization quota              |

|                                |   |
|--------------------------------|---|
| <i>committed</i>               | (Optional) Resource Virtualization committed  |
| <i>available</i>               | (Optional) Resource Virtualization available  |
| TABLE_list                     | (Optional) Virtual service list table         |
| <i>name</i>                    | (Optional) Virtual service name               |
| <i>status</i>                  | (Optional) Virtual service status             |
| <i>package_name</i>            | (Optional) Virtual service package name       |
| TABLE_detail                   | (Optional) Virtual service detail table       |
| <i>name</i>                    | (Optional) Virtual service name               |
| <i>package_name</i>            | (Optional) Virtual service package name       |
| <i>application_name</i>        | (Optional) Name of the application            |
| <i>application_version</i>     | (Optional) Version of the application         |
| <i>application_description</i> | (Optional) Description of the application     |
| <i>key_type</i>                | (Optional) Virtual service key type           |
| <i>signing_method</i>          | (Optional) Method used to sign the package    |
| <i>licensing_name</i>          | (Optional) Name of the license                |
| <i>licensing_version</i>       | (Optional) Version of the license             |
| <i>ova_path</i>                | (Optional) Virtual service OVA path           |
| <i>state</i>                   | (Optional) Virtual service state              |
| <i>disk_reservation</i>        | (Optional) Virtual service disk reservation   |
| <i>memory_reservation</i>      | (Optional) Virtual service memory reservation |
| <i>cpu_reservation</i>         | (Optional) Virtual service CPU reservation    |
| TABLE_attached_devices         | (Optional) Attached devices table             |
| <i>type</i>                    | (Optional) Type of the attached device        |
| <i>name</i>                    | (Optional) Name of the attached device        |
| <i>alias</i>                   | (Optional) Alias for the attached device      |
| TABLE_core                     | (Optional) Virtual service core table         |
| <i>name</i>                    | (Optional) Virtual service name               |
| <i>name_core</i>               | (Optional) Name of core                       |

**Command Mode**

- /exec

## show virtual-service storage pool list

```
show virtual-service storage pool list [ __readonly__ [ TABLE_storage <pool_name> <pool_type> <pool_path> ] ]
```

### Syntax Description

|                      |   |
|----------------------|---|
| show                 | Show running system information                         |
| virtual-service      | Display virtualization service storage pool information |
| storage              | Storage information about virtual service               |
| pool                 | Storage pool information about virtual service          |
| list                 | List storage pool for virtual service                   |
| <i>__readonly__</i>  | (Optional) Read Only                                    |
| <i>TABLE_storage</i> | (Optional) Virtual service storage pool list table      |
| <i>pool_name</i>     | (Optional) Virtual service storage pool name            |
| <i>pool_type</i>     | (Optional) Virtual service storage pool type            |
| <i>pool_path</i>     | (Optional) Virtual service storage pool path            |

### Command Mode

- /exec

# show virtual-service tech-support

show virtual-service tech-support

## Syntax Description

|                 |   |
|-----------------|---|
| show            | Show running system information                                 |
| virtual-service | Gather information for virtualization services trouble shooting |
| tech-support    | Gather information for trouble shooting                         |

## Command Mode

- /exec

## show virtual-service utilization name

```
show virtual-service utilization name <virt_serv_name> [ __readonly__ [ TABLE_cpu <request> <actual>
<state> ] [ TABLE_memory <allocation> <used> ] [ TABLE_storage <name> <alias> <capacity> <used>
<available> <usage> ] ]
```

### Syntax Description

|                       |  |
|-----------------------|--|
| show                  | Show running system information                        |
| virtual-service       | Display virtualization service utilization information |
| utilization           | Utilization information about virtual service          |
| name                  | Utilization of a virtual service                       |
| <i>virt_serv_name</i> | Name of a virtual service                              |
| <i>__readonly__</i>   | (Optional) Read Only                                   |
| TABLE_storage         | (Optional) Virtual service storage utilization         |
| <i>name</i>           | (Optional) storage device name                         |
| <i>alias</i>          | (Optional) storage device alias                        |
| <i>capacity</i>       | (Optional) Capacity 1k blocks                          |
| <i>used</i>           | (Optional) Used 1k blocks                              |
| <i>available</i>      | (Optional) Available 1k blocks                         |
| <i>usage</i>          | (Optional) Usage                                       |
| TABLE_memory          | (Optional) Virtual service memory utilization          |
| <i>allocation</i>     | (Optional) Memory allocation                           |
| <i>used</i>           | (Optional) Memory used                                 |
| TABLE_cpu             | (Optional) Virtual service cpu utilization             |
| <i>request</i>        | (Optional) Requested Application Utilization           |
| <i>actual</i>         | (Optional) Actual Application Utilization              |
| <i>state</i>          | (Optional) CPU state                                   |

### Command Mode

- /exec

## show virtual-service version

```
show virtual-service version { { installed } | { name <virt_serv_name> installed } } [ __readonly__
<virt_service_name> <application_name> <application_version> ]
```

### Syntax Description

|                            |  |
|----------------------------|--|
| show                       | Show running system information                    |
| virtual-service            | Display virtualization service version information |
| version                    | Version information about virtual service          |
| installed                  | Installed version                                  |
| name                       | Version of a virtual service                       |
| <i>virt_serv_name</i>      | Name of a virtual service                          |
| <i>__readonly__</i>        | (Optional) Read Only                               |
| <i>virt_service_name</i>   | (Optional) Virtual service name                    |
| <i>application_name</i>    | (Optional) Application name                        |
| <i>application_version</i> | (Optional) Application version                     |

### Command Mode

- /exec

## show vlan

```
show vlan [ controller ] [ __readonly__ <vlanshowbr-hdr> { TABLE_vlanbrief <vlanshowbr-vlanid>
<vlanshowbr-vlanid-utf> <vlanshowbr-vlanname> <vlanshowbr-vlanstate> <vlanshowbr-shutstate> [
<vlanshowplist-ifidx> + ] } <vlanshowinfo-mtu-hdr> { TABLE_mtuinfo <vlanshowinfo-vlanid>
<vlanshowinfo-media-type> <vlanshowinfo-vlanmode> } [ <vlanshowrspan-hdr1> ] [
<vlanshowrspan-vlantype> ] [ <vlanshowrspan-hdr2> ] [ <vlanshowrspan-vlanbitmap> ] [ <pvlan-hdr> ] [
<pvlan-section> ] [ <pvlan-stby> ] <show-end> [ <true-end> ] ]
```

### Syntax Description

|                                 |   |
|---------------------------------|---|
| show                            | Show running system information                   |
| vlan                            | VLAN status                                       |
| controller                      | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED         |
| __readonly__                    | (Optional) Read Only                              |
| TABLE_vlanbrief                 | (Optional) VLAN brief table format                |
| TABLE_mtuinfo                   | (Optional) MTU information table format           |
| <i>vlanshowbr-hdr</i>           | (Optional) VLAN brief header                      |
| <i>vlanshowbr-vlanid</i>        | (Optional) VLAN brief VLAN ID                     |
| <i>vlanshowbr-vlanid-utf</i>    | (Optional) VLAN brief VLAN ID                     |
| <i>vlanshowbr-vlanname</i>      | (Optional) VLAN brief VLAN name                   |
| <i>vlanshowbr-vlanstate</i>     | (Optional) VLAN brief VLAN state                  |
| <i>vlanshowbr-shutstate</i>     | (Optional) VLAN brief shutdown state              |
| <i>vlanshowplist-ifidx</i>      | (Optional) Port list ifindex                      |
| <i>vlanshowinfo-mtu-hdr</i>     | (Optional) Vlan info mtu header                   |
| <i>vlanshowinfo-vlanid</i>      | (Optional) Vlan info VLAN ID                      |
| <i>vlanshowinfo-media-type</i>  | (Optional) Select media type                      |
| <i>vlanshowinfo-vlanmode</i>    | (Optional) VLAN brief VLAN mode                   |
| <i>vlanshowrspan-hdr1</i>       | (Optional) RSPAN VLAN header for one VLAN         |
| <i>vlanshowrspan-hdr2</i>       | (Optional) RSPAN VLAN header for multiple VLANs   |
| <i>vlanshowrspan-vlantype</i>   | (Optional) RSPAN VLAN one VLAN rspan or non-rspan |
| <i>vlanshowrspan-vlanbitmap</i> | (Optional) RSPAN VLAN multiple VLANs              |
| <i>show-end</i>                 | (Optional) Show vlan end marker                   |



|                      |  |
|----------------------|--|
| <i>true-end</i>      | (Optional) Show vlan end marker            |
| <i>pvlan-hdr</i>     | (Optional) private vlan section            |
| <i>pvlan-section</i> | (Optional) private vlan section            |
| <i>pvlan-stby</i>    | (Optional) private vlan section on standby |

**Command Mode**

- /exec

## show vlan access-list

```
show vlan access-list <name> [ <inp_seqno> ] [ __readonly__ TABLE_vacl <vacl_name> [ <vacl_seqno> ]
[ TABLE_list <ip_ipv6_mac> <acl_name> [ TABLE_seqno <seqno> { <permitdeny> [ <proto_str> | <proto>
| <ip> | <ipv6> ] } { <src_any> | <src_ip_prefix> | <src_ip_addr> <src_ip_mask> | <src_ipv6_prefix> |
<src_ipv6_addr> <src_ipv6_mask> | <mac_src> <mac_src_wild> | <src_addrgrp> } [ <src_port_op> [
<src_port1_str> ] { <src_port1_num> } [ <src_port2_str> | <src_port2_num> ] | <src_portgrp> ] { <dest_any>
| <dest_ip_prefix> | <dest_ip_addr> <dest_ip_mask> | <dest_ipv6_prefix> | <dest_ipv6_addr>
<dest_ipv6_mask> | <mac_dest> <mac_dest_wild> | <dest_addrgrp> } [ <dest_port_op> [ <dest_port1_str>
] { <dest_port1_num> } [ <dest_port2_str> | <dest_port2_num> ] | <dest_portgrp> ] [ { <icmp_type> [
<icmp_code> ] | <icmp_str> } | { <icmpv6_type> [ <icmpv6_code> ] | <icmpv6_str> } ] [ <igmp_type> |
<igmp_type_str> ] [ [ <precedence> | <precedence_str> ] [ <tos> | <tos_str> ] ] [ [ <dscp> | <dscp_str> ] ] [
<ttl> ] ] [ <log> ] [ <udfs> ] [ <capture_session> ] [ <fragments> ] [ <plen_op> <plen1> [ <plen2> ] ] [ <urg>
] [ <ack> ] [ <psh> ] [ <rst> ] [ <syn> ] [ <fin> ] [ <established> ] [ <http-method> | <http_opt_str> ] [
<tcp-option-length> ] [ <tcp-flags-mask> ] [ <flow_label> ] [ <timerange> ] [ <eth_proto> | <eth_proto_str>
] [ <vlan> ] [ <cos> ] [ <match_count> ] [ TABLE_match <module> <module_match_count> ] [ <nve_vni>
] [ <nve_vni> ] [ <label1> [ <label2> <label3> <label4> ] ] <remark> } ] [ <action> <actionid> ] ] ]
```

### Syntax Description

|                     |                                 |
|---------------------|---------------------------------|
| show                | Show running system information |
| vlan                | Vlan commands                   |
| access-list         | Vlan access list                |
| <i>name</i>         | List name                       |
| <i>inp_seqno</i>    | (Optional) Sequence number      |
| <i>vacl_name</i>    | (Optional) List name            |
| <i>__readonly__</i> | (Optional)                      |
| <i>vacl_seqno</i>   | (Optional) Sequence number      |
| TABLE_vacl          | (Optional)                      |
| TABLE_list          | (Optional)                      |
| <i>ip_ipv6_mac</i>  | (Optional) IP/iIPv6/MAC         |
| <i>acl_name</i>     | (Optional) Access list name     |
| <i>seqno</i>        | (Optional) Sequence number      |
| <i>permitdeny</i>   | (Optional) Permit/deny          |
| <i>proto</i>        | (Optional) A protocol number    |
| TABLE_seqno         | (Optional)                      |
| <i>proto_str</i>    | (Optional) Protocol name        |

|                       |                                      |
|-----------------------|--------------------------------------|
| <i>ip</i>             | (Optional) IP                        |
| <i>ipv6</i>           | (Optional) IPV6                      |
| <i>src_any</i>        | (Optional) SRCAny                    |
| <i>dest_any</i>       | (Optional) DESTAny                   |
| <i>src_ip_prefix</i>  | (Optional) Source IP prefix          |
| <i>src_ip_addr</i>    | (Optional) Source IP address         |
| <i>src_ip_mask</i>    | (Optional) Source IP mask            |
| <i>mac_src</i>        | (Optional) Source MAC address        |
| <i>mac_src_wild</i>   | (Optional) Source MAC mask           |
| <i>dest_ip_prefix</i> | (Optional) Destination IP prefix     |
| <i>dest_ip_addr</i>   | (Optional) Destination IP address    |
| <i>dest_ip_mask</i>   | (Optional) Destination IP mask       |
| <i>mac_dest</i>       | (Optional) Destination MAC address   |
| <i>mac_dest_wild</i>  | (Optional) Destination MAC mask      |
| <i>src_port_op</i>    | (Optional) Source Port operator      |
| <i>dest_port_op</i>   | (Optional) Destination Port operator |
| <i>src_port1_str</i>  | (Optional) Source port name          |
| <i>src_port1_num</i>  | (Optional) Source port number        |
| <i>src_port2_str</i>  | (Optional) Source port name          |
| <i>src_port2_num</i>  | (Optional) Source port number        |
| <i>dest_port1_str</i> | (Optional) Destination port name     |
| <i>dest_port1_num</i> | (Optional) Destination port number   |
| <i>dest_port2_str</i> | (Optional) Destination port name     |
| <i>dest_port2_num</i> | (Optional) Destination port number   |
| <i>icmp_type</i>      | (Optional) ICMP type                 |
| <i>icmp_code</i>      | (Optional) ICMP code                 |
| <i>icmp_str</i>       | (Optional) ICMP message              |
| <i>icmpv6_type</i>    | (Optional) ICMP type                 |
| <i>icmpv6_code</i>    | (Optional) ICMP code                 |

|                          |                                |
|--------------------------|--------------------------------|
| <i>icmpv6_str</i>        | (Optional) ICMP message        |
| <i>igmp_type</i>         | (Optional) IGMP type           |
| <i>igmp_type_str</i>     | (Optional) IGMP type String    |
| <i>precedence</i>        | (Optional) precedence          |
| <i>precedence_str</i>    | (Optional) precedence string   |
| <i>tos</i>               | (Optional) tos                 |
| <i>tos_str</i>           | (Optional) tos string          |
| <i>dscp</i>              | (Optional) dscp                |
| <i>dscp_str</i>          | (Optional) dscp string         |
| <i>udfs</i>              | (Optional) udfs string         |
| <i>ttl</i>               | (Optional) ttl                 |
| <i>capture_session</i>   | (Optional) capture session     |
| <i>log</i>               | (Optional) Log                 |
| <i>fragments</i>         | (Optional) Fragments           |
| <i>urg</i>               | (Optional) URG                 |
| <i>ack</i>               | (Optional) ACK                 |
| <i>psh</i>               | (Optional) PSH                 |
| <i>rst</i>               | (Optional) RST                 |
| <i>syn</i>               | (Optional) SYN                 |
| <i>fin</i>               | (Optional) FIN                 |
| <i>established</i>       | (Optional) ESTABLISHED         |
| <i>http-method</i>       | (Optional) http-method         |
| <i>http_opt_str</i>      | (Optional) http_option string  |
| <i>tcp-option-length</i> | (Optional) TCP Option size     |
| <i>tcp-flags-mask</i>    | (Optional) TCP Flags mask      |
| <i>flow_label</i>        | (Optional) IPv6 flow label     |
| <i>timerange</i>         | (Optional) Time-range          |
| <i>eth_proto</i>         | (Optional) MAC protocol number |
| <i>eth_proto_str</i>     | (Optional) MAC protocol name   |

|                           |   |
|---------------------------|---|
| <i>vlan</i>               | (Optional) VLAN number  |
| <i>cos</i>                | (Optional) CoS value  |
| <i>match_count</i>        | (Optional) Number of packets matching the ACL   |
| TABLE_match               | (Optional)  |
| <i>module</i>             | (Optional) Module name  |
| <i>module_match_count</i> | (Optional) Number of packets matching the ACL   |
| <i>nve_vni</i>            | (Optional) nve vni  |
| <i>remark</i>             | (Optional) Remark String  |
| <i>src_addrgrp</i>        | (Optional) Source address group   |
| <i>dest_addrgrp</i>       | (Optional) Destination address group  |
| <i>src_portgrp</i>        | (Optional) Source port group  |
| <i>dest_portgrp</i>       | (Optional) Destination port group   |
| <i>plen_op</i>            | (Optional) Source Port operator   |
| <i>plen1</i>              | (Optional) Packet length minimum  |
| <i>plen2</i>              | (Optional) packet length maximum  |
| <i>label1</i>             | (Optional) mpls label one   |
| <i>label2</i>             | (Optional) mpls label two   |
| <i>label3</i>             | (Optional) mpls label three   |
| <i>label4</i>             | (Optional) mpls label four  |
| <i>action</i>             | (Optional) Action   |
| <i>actionid</i>           | (Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63><br>set-erspan-gre-proto: <1-65535> |

**Command Mode**

- /exec

## show vlan access-map

```
show vlan access-map [ <name> ] [ __readonly__ [ TABLE_vacl <vacl_name> [ TABLE_seqno [ <seqno>
] [ <ip_ipv6_mac> { <match_name> } + [ <action_drop> ] [ <action_log> ] [ <action_fwd> ] [ <action_capture>
] [ <action_redirect> <intf> ] ] [ <statistics> ] ] ] ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| show                   | Show running system information               |
| vlan                   | Vlan commands                                 |
| access-map             | List VLAN access maps                         |
| <i>name</i>            | (Optional) List name                          |
| <i>vacl_name</i>       | (Optional) List name                          |
| <i>__readonly__</i>    | (Optional)                                    |
| <i>seqno</i>           | (Optional) Sequence number                    |
| TABLE_vacl             | (Optional)                                    |
| TABLE_seqno            | (Optional)                                    |
| <i>ip_ipv6_mac</i>     | (Optional) IP/iIPV6/MAC                       |
| <i>match_name</i>      | (Optional) Access list name                   |
| <i>action_drop</i>     | (Optional) DROP                               |
| <i>action_log</i>      | (Optional) LOG                                |
| <i>action_fwd</i>      | (Optional) FWD                                |
| <i>action_capture</i>  | (Optional) CAPTURE                            |
| <i>action_redirect</i> | (Optional) REDIRECT                           |
| <i>intf</i>            | (Optional) Interface traffic is redirected to |
| <i>statistics</i>      | (Optional) STATISTICS                         |

### Command Mode

- /exec

## show vlan counters

```
show vlan counters [ __readonly__ { TABLE_vlancounters <vlanshowbr-vlanid> [ <l2_ing_ucast_b> ] [
<l2_ing_ucast_p> ] [ <l2_ing_mcast_b> ] [ <l2_ing_mcast_p> ] [ <l2_ing_bcast_b> ] [ <l2_ing_bcast_p> ]
[ <l2_egr_ucast_b> ] [ <l2_egr_ucast_p> ] [ <l3_ucast_rcv_b> ] [ <l3_ucast_rcv_p> ] [ <total_rcv_b> ] [
<total_rcv_p> ] [ <total_sent_b> ] [ <total_sent_p> ] } }
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information         |
| vlan                     | Vlan commands                           |
| counters                 | display counters                        |
| __readonly__             | (Optional) Read Only                    |
| TABLE_vlancounters       | (Optional) vlan counters table format   |
| <i>vlanshowbr-vlanid</i> | (Optional) VLAN brief VLAN ID           |
| <i>l2_ing_ucast_b</i>    | (Optional) L2 Ingress unicast octets    |
| <i>l2_ing_ucast_p</i>    | (Optional) L2 Ingress unicast packets   |
| <i>l2_ing_mcast_b</i>    | (Optional) L2 Ingress multicast octets  |
| <i>l2_ing_mcast_p</i>    | (Optional) L2 Ingress multicast packets |
| <i>l2_ing_bcast_b</i>    | (Optional) L2 Ingress broadcast octets  |
| <i>l2_ing_bcast_p</i>    | (Optional) L2 Ingress broadcast packets |
| <i>l2_egr_ucast_b</i>    | (Optional) L2 Egress unicast octets     |
| <i>l2_egr_ucast_p</i>    | (Optional) L2 Egress unicast packets    |
| <i>l3_ucast_rcv_b</i>    | (Optional) L3 unicast octets in         |
| <i>l3_ucast_rcv_p</i>    | (Optional) L3 unicast packets in        |
| <i>total_rcv_b</i>       | (Optional) Total octets in              |
| <i>total_rcv_p</i>       | (Optional) Total packets in             |
| <i>total_sent_b</i>      | (Optional) Total octets out             |
| <i>total_sent_p</i>      | (Optional) Total packets out            |

### Command Mode

- /exec

# show vlan dot1Q tag native

show vlan dot1Q tag native [ \_\_readonly\_\_ <tag\_native\_mode> ]

## Syntax Description

|                        |                                     |
|------------------------|-------------------------------------|
| show                   | Show running system information     |
| vlan                   | VTP VLAN status                     |
| dot1Q                  | Display dot1q parameters            |
| tag                    | Display tag parameters              |
| native                 | Display native vlan tagging         |
| <i>__readonly__</i>    | (Optional) Read Only                |
| <i>tag_native_mode</i> | (Optional) Native vlan tagging mode |

## Command Mode

- /exec



# show vlan fcoe

```
show vlan fcoe [ <vlan-id> ] [ __readonly__ { TABLE_assoc <orig-id> <tran-id> <assoc-state> } ]
```

## Syntax Description

|                    |   |
|--------------------|---|
| show               | Show running system information                                       |
| fcoe               | FCOE Congiguration  |
| vlan               | Original VLAN Status  |
| __readonly__       | (Optional) Read Only  |
| TABLE_assoc        | (Optional) Association Table Format                                   |
| <i>vlan-id</i>     | (Optional) VLAN ID <1-4094>   |
| <i>orig-id</i>     | (Optional) Enter original VLAN-ID being associated with translated ID |
| <i>tran-id</i>     | (Optional) Enter VSAN-ID being associated with VLAN-ID                |
| <i>assoc-state</i> | (Optional) Show Association Status                                    |

## Command Mode

- /exec

# show vlan filter

```
show vlan filter [ access-map <name> | vlan <vlan> ] [ __readonly__ TABLE_vlan_filter <vacl_name>
<configured_vlans> ]
```

## Syntax Description

|                         |  |
|-------------------------|--|
| show                    | Show running system information                          |
| vlan                    | Vlan commands  |
| filter                  | Information about VLAN filters                           |
| access-map              | (Optional) Show the VLANs where an access-map is applied |
| <i>name</i>             | (Optional) List name                                     |
| vlan                    | (Optional) Show the access-map applied to a VLAN         |
| <i>vlan</i>             | (Optional) VLAN number                                   |
| <i>__readonly__</i>     | (Optional)   |
| TABLE_vlan_filter       | (Optional)   |
| <i>vacl_name</i>        | (Optional) List name                                     |
| <i>configured_vlans</i> | (Optional) VLAN numbers                                  |

## Command Mode

- /exec

## show vlan id

```
show vlan id <vlan-id> [ __readonly__ <vlanshowbr-hdr> { TABLE_vlanbriefid <vlanshowbr-vlanid>
<vlanshowbr-vlanid-utf> <vlanshowbr-vlanname> <vlanshowbr-vlanstate> <vlanshowbr-shutstate> [
<vlanshowplist-ifidx> + ] } <vlanshowinfo-mtu-hdr> { TABLE_mtuinfoid <vlanshowinfo-vlanid>
<vlanshowinfo-media-type> <vlanshowinfo-vlanmode> } [ <vlanshow-vlanerrbitmap> ] [
<vlanshowrspan-hdr1> ] [ <vlanshowrspan-vlantype> ] [ <vlanshowrspan-hdr2> ] [
<vlanshowrspan-vlanbitmap> ] [ <pvlan-hdr> ] [ <pvlan-id-section> ] [ <pvlan-stby> ] [ <is-vtp-manageable>
] [ <is-internal> ] [ <is-reserved> ] [ <is-rspan> ] [ <is-dynamic-gvrp> ] <show-end> [ <true-end> ] ]
```

### Syntax Description

|                                |   |
|--------------------------------|---|
| show                           | Show running system information                   |
| vlan                           | VLAN status                                       |
| id                             | VLAN status by VLAN id                            |
| <i>vlan-id</i>                 | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19   |
| <i>__readonly__</i>            | (Optional) Read Only                              |
| TABLE_vlanbriefid              | (Optional) VLAN brief table format                |
| TABLE_mtuinfoid                | (Optional) MTU information table format           |
| <i>vlanshowbr-hdr</i>          | (Optional) VLAN brief header                      |
| <i>vlanshowbr-vlanid</i>       | (Optional) VLAN brief VLAN ID                     |
| <i>vlanshowbr-vlanid-utf</i>   | (Optional) VLAN brief VLAN ID                     |
| <i>vlanshowbr-vlanname</i>     | (Optional) VLAN brief VLAN name                   |
| <i>vlanshowbr-vlanstate</i>    | (Optional) VLAN brief VLAN state                  |
| <i>vlanshowbr-shutstate</i>    | (Optional) VLAN brief shutdown state              |
| <i>vlanshowplist-ifidx</i>     | (Optional) Port list ifindex                      |
| <i>vlanshowinfo-mtu-hdr</i>    | (Optional) Vlan info mtu header                   |
| <i>vlanshowinfo-vlanid</i>     | (Optional) Vlan info VLAN ID                      |
| <i>vlanshowinfo-media-type</i> | (Optional) Select media type                      |
| <i>vlanshowinfo-vlanmode</i>   | (Optional) VLAN brief VLAN mode                   |
| <i>vlanshow-vlanerrbitmap</i>  | (Optional) VLAN error bitmap                      |
| <i>vlanshowrspan-hdr1</i>      | (Optional) RSPAN VLAN header for one VLAN         |
| <i>vlanshowrspan-hdr2</i>      | (Optional) RSPAN VLAN header for multiple VLANs   |
| <i>vlanshowrspan-vlantype</i>  | (Optional) RSPAN VLAN one VLAN rspan or non-rspan |

|                                 |  |
|---------------------------------|--|
| <i>vlanshowrspan-vlanbitmap</i> | (Optional) RSPAN VLAN multiple VLANs       |
| <i>show-end</i>                 | (Optional) Show vlan end marker            |
| <i>true-end</i>                 | (Optional) Show vlan end marker            |
| <i>pvlan-hdr</i>                | (Optional) private vlan section            |
| <i>pvlan-id-section</i>         | (Optional) private id vlan section         |
| <i>pvlan-stby</i>               | (Optional) private vlan section on standby |
| <i>is-vtp-manageable</i>        | (Optional) VTP Manageable VLAN flag        |
| <i>is-internal</i>              | (Optional) Internal VLAN flag              |
| <i>is-reserved</i>              | (Optional) Reserved VLAN flag              |
| <i>is-rspan</i>                 | (Optional) RSPAN VLAN flag                 |
| <i>is-dynamic-gvrp</i>          | (Optional) Dynamic GVRP VLAN flag          |

**Command Mode**

- /exec

## show vlan id counters

```
show vlan id <vlan-id> counters [ __readonly__ { TABLE_vlancounters <vlanshowbr-vlanid> [
<l2_ing_ucast_b> ] [ <l2_ing_ucast_p> ] [ <l2_ing_mcast_b> ] [ <l2_ing_mcast_p> ] [ <l2_ing_bcast_b> ]
[ <l2_ing_bcast_p> ] [ <l2_egr_ucast_b> ] [ <l2_egr_ucast_p> ] [ <l3_ucast_rcv_b> ] [ <l3_ucast_rcv_p> ]
[ <total_rcv_b> ] [ <total_rcv_p> ] [ <total_sent_b> ] [ <total_sent_p> ] } ]
```

### Syntax Description

|                          |   |
|--------------------------|---|
| show                     | Show running system information                 |
| vlan                     | Vlan commands                                   |
| id                       | VLAN status by VLAN id                          |
| counters                 | display counters                                |
| <i>vlan-id</i>           | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |
| <u>__readonly__</u>      | (Optional) Read Only                            |
| TABLE_vlancounters       | (Optional) vlan counters table format           |
| <i>vlanshowbr-vlanid</i> | (Optional) VLAN brief VLAN ID                   |
| <i>l2_ing_ucast_b</i>    | (Optional) L2 Ingress unicast octets            |
| <i>l2_ing_ucast_p</i>    | (Optional) L2 Ingress unicast packets           |
| <i>l2_ing_mcast_b</i>    | (Optional) L2 Ingress multicast octets          |
| <i>l2_ing_mcast_p</i>    | (Optional) L2 Ingress multicast packets         |
| <i>l2_ing_bcast_b</i>    | (Optional) L2 Ingress broadcast octets          |
| <i>l2_ing_bcast_p</i>    | (Optional) L2 Ingress broadcast packets         |
| <i>l2_egr_ucast_b</i>    | (Optional) L2 Egress unicast octets             |
| <i>l2_egr_ucast_p</i>    | (Optional) L2 Egress unicast packets            |
| <i>l3_ucast_rcv_b</i>    | (Optional) L3 unicast octets in                 |
| <i>l3_ucast_rcv_p</i>    | (Optional) L3 unicast packets in                |
| <i>total_rcv_b</i>       | (Optional) Total octets in                      |
| <i>total_rcv_p</i>       | (Optional) Total packets in                     |
| <i>total_sent_b</i>      | (Optional) Total octets out                     |
| <i>total_sent_p</i>      | (Optional) Total packets out                    |

### Command Mode

- /exec

# show vlan id vn-segment

```
show vlan id <vlan-id> vn-segment [ __readonly__ <vlanshowinfo-segid-hdr> { TABLE_seginfoid
<vlanshowinfo-seg-vlanid> <vlanshowinfo-segment-id> } <show-end> [ <true-end> ] ]
```

## Syntax Description

|                                |   |
|--------------------------------|---|
| show                           | Show running system information                 |
| vlan                           | VLAN status                                     |
| id                             | VLAN status by VLAN id                          |
| vn-segment                     | Show vn-segment mapping                         |
| <i>vlan-id</i>                 | VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |
| <i>__readonly__</i>            | (Optional) Read Only                            |
| <i>TABLE_seginfoid</i>         | (Optional) Segment id information table format  |
| <i>vlanshowinfo-segid-hdr</i>  | (Optional) Vlan info segment id header          |
| <i>vlanshowinfo-seg-vlanid</i> | (Optional) Vlan info VLAN ID                    |
| <i>vlanshowinfo-segment-id</i> | (Optional) Vlan info SEGMENT ID                 |
| <i>show-end</i>                | (Optional) Show vlan end marker                 |
| <i>true-end</i>                | (Optional) Show vlan end marker                 |

## Command Mode

- /exec

## show vlan name

```
show vlan name <vname> [ __readonly__ <vlanshowbr-hdr> { TABLE_vlanbriefname <vlanshowbr-vlanid>
<vlanshowbr-vlanid-utf> <vlanshowbr-vlanname> <vlanshowbr-vlanstate> <vlanshowbr-shutstate> [
<vlanshowplist-ifidx> + ] } <vlanshowinfo-mtu-hdr> { TABLE_mtuinfofname <vlanshowinfo-vlanid>
<vlanshowinfo-media-type> <vlanshowinfo-vlanmode> } [ <vlanshowrspan-hdr1> ] [
<vlanshowrspan-vlantype> ] [ <vlanshowrspan-hdr2> ] [ <vlanshowrspan-vlanbitmap> ] <show-end> [
<true-end> ] ]
```

### Syntax Description

|                          |  |
|--------------------------|--|
| show                     | Show running system information                          |
| vlan                     | VLAN status  |
| name                     | VLAN status by VLAN name                                 |
| vname                    | A vlan name with size 32 (128 if long vlan name enabled) |
| __readonly__             | (Optional) Read Only                                     |
| TABLE_vlanbriefname      | (Optional) VLAN brief table format                       |
| TABLE_mtuinfofname       | (Optional) MTU information table format                  |
| vlanshowbr-hdr           | (Optional) VLAN brief header                             |
| vlanshowbr-vlanid        | (Optional) VLAN brief VLAN ID                            |
| vlanshowbr-vlanid-utf    | (Optional) VLAN brief VLAN ID                            |
| vlanshowbr-vlanname      | (Optional) VLAN brief VLAN name                          |
| vlanshowbr-vlanstate     | (Optional) VLAN brief VLAN state                         |
| vlanshowbr-shutstate     | (Optional) VLAN brief shutdown state                     |
| vlanshowplist-ifidx      | (Optional) Port list ifindex                             |
| vlanshowinfo-mtu-hdr     | (Optional) Vlan info mtu header                          |
| vlanshowinfo-vlanid      | (Optional) Vlan info VLAN ID                             |
| vlanshowinfo-media-type  | (Optional) Select media type                             |
| vlanshowinfo-vlanmode    | (Optional) VLAN brief VLAN mode                          |
| vlanshowrspan-hdr1       | (Optional) RSPAN VLAN header for one VLAN                |
| vlanshowrspan-hdr2       | (Optional) RSPAN VLAN header for multiple VLANs          |
| vlanshowrspan-vlantype   | (Optional) RSPAN VLAN one VLAN rspan or non-rspan        |
| vlanshowrspan-vlanbitmap | (Optional) RSPAN VLAN multiple VLANs                     |



|                 |                                 |
|-----------------|---------------------------------|
| <i>show-end</i> | (Optional) Show vlan end marker |
| <i>true-end</i> | (Optional) Show vlan end marker |

**Command Mode**

- /exec

## show vlan private-vlan

```
show vlan [ id <vlan-id> ] private-vlan [ __readonly__ [ { TABLE_pvlan_primary <vlan-key> [ <primary>
] [ <secondary> ] <pvlan-type> [ <ports> + ] } ] ]
```

### Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information                            |
| vlan                | VLAN status  |
| id                  | (Optional) VLAN status by VLAN id                          |
| <i>vlan-id</i>      | (Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |
| private-vlan        | Private VLAN information                                   |
| <i>__readonly__</i> | (Optional) Read Only                                       |
| TABLE_pvlan_primary | (Optional) Pvlan primary vlan table                        |
| <i>vlan-key</i>     | (Optional) Vlan key  |
| <i>primary</i>      | (Optional) Primary VLAN                                    |
| <i>secondary</i>    | (Optional) Secondary VLAN                                  |
| <i>pvlan-type</i>   | (Optional) PVLAN Type                                      |
| <i>ports</i>        | (Optional) Port list                                       |

### Command Mode

- /exec

## show vlan private-vlan type

```
show vlan [ id <vlan-id> ] private-vlan type [ __readonly__ [ { TABLE_pvlantype <vlan-num> <pvlan-type>
} ] ]
```

### Syntax Description

|                   |  |
|-------------------|--|
| show              | Show running system information                            |
| vlan              | VLAN status  |
| id                | (Optional) VLAN status by VLAN id                          |
| <i>vlan-id</i>    | (Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 |
| private-vlan      | Private VLAN information                                   |
| type              | Private VLAN type information                              |
| __readonly__      | (Optional) Read Only                                       |
| TABLE_pvlantype   | (Optional) Pvlan type table                                |
| <i>vlan-num</i>   | (Optional) vlan  |
| <i>pvlan-type</i> | (Optional) PVLAN Type                                      |

### Command Mode

- /exec

## show vlan xbrief

```
show vlan xbrief [ controller | cli ] [ __readonly__ <vlanshowbr-hdr> { TABLE_vlanbriefxbrief
<vlanshowbr-vlanid> <vlanshowbr-vlanid-utf> <vlanshowbr-vlanname> <vlanshowbr-vlanstate>
<vlanshowbr-shutstate> [ <vlanshowplist-ifidx> + ] } <show-end> [ <true-end> ] ]
```

### Syntax Description

|                              |   |
|------------------------------|---|
| show                         | Show running system information           |
| vlan                         | VLAN status                               |
| xbrief                       | All VLAN status in brief                  |
| controller                   | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| cli                          | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| __readonly__                 | (Optional) Read Only                      |
| TABLE_vlanbriefxbrief        | (Optional) VLAN brief table format        |
| <i>vlanshowbr-hdr</i>        | (Optional) VLAN brief header              |
| <i>vlanshowbr-vlanid</i>     | (Optional) VLAN brief VLAN ID             |
| <i>vlanshowbr-vlanid-utf</i> | (Optional) VLAN brief VLAN ID             |
| <i>vlanshowbr-vlanname</i>   | (Optional) VLAN brief VLAN name           |
| <i>vlanshowbr-vlanstate</i>  | (Optional) VLAN brief VLAN state          |
| <i>vlanshowbr-shutstate</i>  | (Optional) VLAN brief shutdown state      |
| <i>vlanshowplist-ifidx</i>   | (Optional) Port list ifindex              |
| <i>show-end</i>              | (Optional) Show vlan end marker           |
| <i>true-end</i>              | (Optional) Show vlan end marker           |

### Command Mode

- /exec

## show vlan xsummary

```
show vlan xsummary [ __readonly__ <vlansum-all-vlan> <vlansum-vtp-vlan> <vlansum-ext-vlan>
<vlansum-max-supported-vlan> <vlansum-carved-vlan> <show-end> [ <true-end> ] ]
```

### Syntax Description

|                                   |   |
|-----------------------------------|---|
| show                              | Show running system information                         |
| vlan                              | VLAN status   |
| xsummary                          | VLAN summary information                                |
| <i>__readonly__</i>               | (Optional) Read Only                                    |
| <i>vlansum-all-vlan</i>           | (Optional) Show vlan summary Total                      |
| <i>vlansum-vtp-vlan</i>           | (Optional) Show vlan summary Number of normal vlans     |
| <i>vlansum-ext-vlan</i>           | (Optional) Show vlan summary Number of extended vlans   |
| <i>vlansum-max-supported-vlan</i> | (Optional) Show vlan summary Max supported vlans        |
| <i>vlansum-carved-vlan</i>        | (Optional) Show vlan summary Number of carved sdn vlans |
| <i>show-end</i>                   | (Optional) Show vlan end marker                         |
| <i>true-end</i>                   | (Optional) Show vlan end marker                         |

### Command Mode

- /exec

# show vmtracker

```
show vmtracker [ connection <conn_name> ] { { info { { [ interface <intf_id> ] { summary | detail | host |
vm | port-group } } | { vxlan-segment | vxlan-vms } } } | event-history } [ __readonly__ TABLE_info
<intf_name> <host_or_ip> <vmnic> <vm_name> <vm_state> <port_group> <pg_type> <vlan_range>
<virt_wire_name> <multicast_ip> <vdn_id> <vtep_ip> ]
```

## Syntax Description

|                       |  |
|-----------------------|--|
| <i>__readonly__</i>   | (Optional)   |
| TABLE_info            | (Optional)   |
| <i>intf_name</i>      | (Optional)   |
| <i>host_or_ip</i>     | (Optional)   |
| <i>vmnic</i>          | (Optional)   |
| <i>vm_name</i>        | (Optional)   |
| <i>vm_state</i>       | (Optional)   |
| <i>port_group</i>     | (Optional)   |
| <i>pg_type</i>        | (Optional)   |
| <i>vlan_range</i>     | (Optional)   |
| <i>virt_wire_name</i> | (Optional)   |
| <i>multicast_ip</i>   | (Optional)   |
| <i>vdn_id</i>         | (Optional)   |
| <i>vtep_ip</i>        | (Optional)   |
| show                  | Show running system information                    |
| vmtracker             | Show vmtracker info                                |
| connection            | (Optional) Show vmtracker configured connections   |
| <i>conn_name</i>      | (Optional) Show vmtracker Connection name          |
| info                  | Display vmtracker information                      |
| interface             | (Optional) Display vmtracker interface information |
| <i>intf_id</i>        | (Optional) Interface name to display               |
| summary               | Display a summary of vmtracker information         |
| detail                | Display vmtracker information details              |

|               |   |
|---------------|---|
| host          | Display vmtracker host information                    |
| vm            | Display vmtracker related Virtual Machine information |
| port-group    | Display vmtracker related port-group information      |
| vxlan-segment | Print all segment info                                |
| vxlan-vms     | Print all vm info                                     |
| event-history | Display vmtracker related event-history               |

**Command Mode**

- /exec

# show vmtracker certificate

show vmtracker certificate [ \_\_readonly\_\_ TABLE\_cert <certificate> ]

## Syntax Description

|                           |                                   |
|---------------------------|-----------------------------------|
| <code>__readonly__</code> | (Optional)                        |
| <code>TABLE_cert</code>   | (Optional)                        |
| <i>certificate</i>        | (Optional)                        |
| show                      | Show running system information   |
| vmtracker                 | VMTRACKER commands                |
| certificate               | Show the default certificate used |

## Command Mode

- /exec



## show vmtracker fabric auto-config

```
show vmtracker fabric auto-config [ interface <intf_id> ] [ vlan <vlan_id> ] [ status { success | pending |
failure | skipped } ] [ __readonly__ TABLE_autoconfig <interface_name> <port_group_name> <vlan_range>
<config_status> ]
```

### Syntax Description

|                               |   |
|-------------------------------|---|
| <code>__readonly__</code>     | (Optional)  |
| <code>TABLE_autoconfig</code> | (Optional)  |
| <code>interface_name</code>   | (Optional)  |
| <code>port_group_name</code>  | (Optional)  |
| <code>vlan_range</code>       | (Optional)  |
| <code>config_status</code>    | (Optional)  |
| show                          | Show running system information                                 |
| vmtracker                     | VMTRACKER commands  |
| fabric                        | VM Tracker Fabric paramters                                     |
| auto-config                   | VM Tracker Fabric AutoConfiguration                             |
| interface                     | (Optional) Display vmtracker interface information              |
| <code>intf_id</code>          | (Optional) Interface name to display                            |
| vlan                          | (Optional) vlan to display                                      |
| <code>vlan_id</code>          | (Optional) VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19 |
| status                        | (Optional) Auto-config status                                   |
| success                       | (Optional) Success  |
| pending                       | (Optional) Pending  |
| failure                       | (Optional) Failure  |
| skipped                       | (Optional) Skipped  |

### Command Mode

- /exec

# show vmtracker status

```
show vmtracker [ connection <conn_name> ] status [ __readonly__ { TABLE_connection <name> <host_or_ip>
<conn_status> } ]
```

## Syntax Description

|                     |  |
|---------------------|--|
| <i>__readonly__</i> | (Optional)                                       |
| TABLE_connection    | (Optional)                                       |
| <i>name</i>         | (Optional)                                       |
| <i>host_or_ip</i>   | (Optional)                                       |
| <i>conn_status</i>  | (Optional)                                       |
| show                | Show running system information                  |
| vmtracker           | Show vmtracker info                              |
| connection          | (Optional) Show vmtracker configured connections |
| <i>conn_name</i>    | (Optional) Show vmtracker Connection name        |
| status              | Show vmtracker connection status                 |

## Command Mode

- /exec

## show vpc

```
show vpc [ brief ] [ __readonly__ <vpc-domain-id> [ <vpc-l2mp-switch-id> ] <vpc-peer-status>
<vpc-peer-status-reason> <vpc-peer-keepalive-status> [ <vpc-peer-l2mp-status> ] <vpc-peer-consistency> {
[ <vpc-peer-consistency-reason> ] [ <vpc-per-vlan-peer-consistency> ] <vpc-peer-consistency-status> }
<vpc-type-2-consistency> { [ <vpc-type-2-consistency-reason> ] <vpc-type-2-consistency-status> } <vpc-role>
<num-of-vpcs> [ <track-obj> ] [ <peer-gateway> ] [ <peer-gateway-excluded-vlans> ]
<dual-active-excluded-vlans> <vpc-graceful-consistency-check-status> [ <vpc-auto-recovery-status> ] [
<vpc-delay-restore-status> ] [ <vpc-delay-restore-svi-status> ] [ <vpc-delay-peer-link-status> ]
<operational-l3-peer> [ <vpc-scale-high-status> ] [ <fp-enhanced-load-balancing> ] [
<vpc-per-vlan-peer-consistency> ] [ <virtual-peerlink> ] [ <vpc-peer-link-hdr> [ { TABLE_peerlink
<peer-link-id> <peerlink-ifindex> <peer-link-port-state> <peer-up-vlan-bitset> } ] <vpc-end> ] [ <vpc-hdr>
[ <vpc-is-es> ] [ <vpc-not-es> ] [ { TABLE_vpc <vpc-id> <vpc-ifindex> <vpc-port-state>
<phy-port-if-removed><vpc-thru-peerlink> <vpc-consistency> { [ <vpc-consistency-reason> ] [
<vpc-consistency-status> ] } <up-vlan-bitset> <es-attr> } ] <vpc-end> ] ]
```

### Syntax Description

|                             |  |
|-----------------------------|--|
| vpc                         | Virtual Port Channel configuration                   |
| brief                       | (Optional) Brief display of vPC status               |
| __readonly__                | (Optional) Read Only                                 |
| TABLE_peerlink              | (Optional) vPC peerlink table                        |
| TABLE_vpc                   | (Optional) vPC table                                 |
| vpc-domain-id               | (Optional) vPC domain id                             |
| vpc-l2mp-switch-id          | (Optional) vPC+ switch ID                            |
| vpc-peer-status             | (Optional) vPC peer status                           |
| vpc-peer-status-reason      | (Optional) vPC peer status reason                    |
| vpc-peer-keepalive-status   | (Optional) vpc peer keepalive status                 |
| vpc-peer-l2mp-status        | (Optional) vPC fabricpath status                     |
| vpc-role                    | (Optional) vPC role                                  |
| peer-gateway                | (Optional) Peer gateway status                       |
| peer-gateway-excluded-vlans | (Optional) peer-gateway excluded VLANs               |
| dual-active-excluded-vlans  | (Optional) dual-active excluded VLANs                |
| fp-enhanced-load-balancing  | (Optional) Fabricpath enhanced load balancing status |
| num-of-vpcs                 | (Optional) Number of vPCs configured                 |
| track-obj                   | (Optional) Track object for vPC                      |

|  |  |
|--|--|
| <i>vpc-graceful-consistency-check-status</i> | (Optional) vPC graceful consistency check                |
| <i>vpc-consistency</i>                       | (Optional) vPC global configuration consistency          |
| <i>vpc-consistency-reason</i>                | (Optional) vPC consistency reason                        |
| <i>vpc-consistency-status</i>                | (Optional) vPC consistency reason                        |
| <i>vpc-peer-consistency</i>                  | (Optional) vPC global configuration consistency          |
| <i>vpc-peer-consistency-reason</i>           | (Optional) vPC consistency reason                        |
| <i>vpc-peer-consistency-status</i>           | (Optional) vPC consistency reason                        |
| <i>vpc-per-vlan-peer-consistency</i>         | (Optional) vPC per-vlan global configuration consistency |
| <i>vpc-type-2-consistency</i>                | (Optional) vPC type-2 configuration consistency status   |
| <i>vpc-type-2-consistency-reason</i>         | (Optional) vPC type-2 configuration consistency reason   |
| <i>vpc-type-2-consistency-status</i>         | (Optional) vPC type-2 configuration consistency status   |
| <i>operational-l3-peer</i>                   | (Optional) Operational Layer 3 peer status               |
| <i>virtual-peerlink</i>                      | (Optional) Virtual peerlink status                       |
| <i>vpc-scale-high-status</i>                 | (Optional) vPC scale high status                         |
| <i>vpc-hdr</i>                               | (Optional) Start of vPC table                            |
| <i>vpc-is-es</i>                             | (Optional) Flag to indicate vPC+ complex                 |
| <i>vpc-not-es</i>                            | (Optional) Flag to indicate vPC complex                  |
| <i>vpc-peer-link-hdr</i>                     | (Optional) Start of vPC peer-link table                  |
| <i>vpc-port-state</i>                        | (Optional) vPC port state                                |
| <i>vpc-end</i>                               | (Optional) End of table                                  |
| <i>vpc-id</i>                                | (Optional) vPC id  |
| <i>vpc-ifindex</i>                           | (Optional) vPC ifindex                                   |
| <i>peer-link-id</i>                          | (Optional) peer link id                                  |
| <i>peerlink-ifindex</i>                      | (Optional) peer link ifindex                             |
| <i>peer-link-port-state</i>                  | (Optional) peer-link port state                          |
| <i>peer-up-vlan-bitset</i>                   | (Optional) peer link UP VLAN bitset                      |
| <i>up-vlan-bitset</i>                        | (Optional) vPC UP VLAN bitset                            |
| <i>es-attr</i>                               | (Optional) vPC+ attributes                               |
| <i>vpc-auto-recovery-status</i>              | (Optional) Auto-recovery status                          |

|                                     |                                     |
|-------------------------------------|-------------------------------------|
| <i>vpc-delay-restore-status</i>     | (Optional) Delay-resotre status     |
| <i>vpc-delay-restore-svi-status</i> | (Optional) Dealy-restore-svi status |
| <i>vpc-delay-peer-link-status</i>   | (Optional) Delay-peer-link status   |

**Command Mode**

- /exec

# show vpc

```
show vpc { <vpc-number> | brief vpc <vpc-number> } [ __readonly__ [ <vpc-hdr> ] [ <vpc-is-es> ] [ <vpc-not-es> ] [ TABLE_vpc <vpc-id> <vpc-ifindex> <vpc-port-state> <phy-port-if-removed><vpc-thru-peerlink> <vpc-consistency> { [ <vpc-consistency-reason> ] [ <vpc-consistency-status> ] } <up-vlan-bitset> <es-attr> ] <vpc-end> ]
```

## Syntax Description

|                               |   |
|-------------------------------|---|
| vpc                           | Virtual Port Channel configuration              |
| brief                         | Brief display of vPC status                     |
| <i>vpc-number</i>             | Enter a Virtual Port Channel number             |
| <i>__readonly__</i>           | (Optional) Read Only                            |
| <i>vpc-hdr</i>                | (Optional) Start of vPC table                   |
| <i>vpc-is-es</i>              | (Optional) Flag to indicate vPC+ complex        |
| <i>vpc-not-es</i>             | (Optional) Flag to indicate vPC complex         |
| TABLE_vpc                     | (Optional) vPC table                            |
| <i>vpc-id</i>                 | (Optional) vPC id                               |
| <i>vpc-ifindex</i>            | (Optional) vPC ifindex                          |
| <i>vpc-port-state</i>         | (Optional) vPC port state                       |
| <i>vpc-consistency</i>        | (Optional) vPC global configuration consistency |
| <i>vpc-consistency-reason</i> | (Optional) vPC consistency reason               |
| <i>vpc-consistency-status</i> | (Optional) vPC consistency reason               |
| <i>up-vlan-bitset</i>         | (Optional) vPC UP VLAN bitset                   |
| <i>es-attr</i>                | (Optional) vPC+ attributes                      |
| <i>vpc-end</i>                | (Optional) End of table                         |

## Command Mode

- /exec

## show vpc consistency-parameters

```
show vpc consistency-parameters { global | vni | interface <if> | vpc <vpc-num> } [ __readonly__
TABLE_vpc_consistency <vpc-param-name> <vpc-param-type> <vpc-param-local-val> <vpc-param-peer-val>
]
```

### Syntax Description

|                              |                                     |
|------------------------------|-------------------------------------|
| vpc                          | Virtual Port Channel configuration  |
| consistency-parameters       | Show vPC Consistency Parameters     |
| global                       | Global Parameters                   |
| vni                          | Show vPC Consistency Parameters vni |
| <i>if</i>                    |                                     |
| <i>vpc-num</i>               | Enter a Virtual Port Channel number |
| <i>__readonly__</i>          | (Optional) Read Only                |
| <i>TABLE_vpc_consistency</i> | (Optional) vPC table                |
| <i>vpc-param-name</i>        | (Optional)                          |
| <i>vpc-param-type</i>        | (Optional)                          |
| <i>vpc-param-local-val</i>   | (Optional)                          |
| <i>vpc-param-peer-val</i>    | (Optional)                          |

### Command Mode

- /exec

## show vpc consistency-parameters vlans

```
show vpc consistency-parameters vlans [ vnseg ] [ __readonly__ TABLE_vpc_consistency <vpc-param-name>
<vpc-param-type> [ <reason_code> ] [ <syserr> ] <vpc-pass-vlans> [ <reason_code> ] ]
```

### Syntax Description

|                        |   |
|------------------------|---|
| vpc                    | Virtual Port Channel configuration        |
| consistency-parameters | Show vPC Consistency Parameters           |
| vlans                  | vlans                                     |
| vnseg                  | (Optional) Display vlan to vn-segment map |
| __readonly__           | (Optional) Read Only                      |
| TABLE_vpc_consistency  | (Optional) vPC table                      |
| <i>vpc-param-name</i>  | (Optional)                                |
| <i>vpc-param-type</i>  | (Optional)                                |
| <i>vpc-pass-vlans</i>  | (Optional)                                |
| <i>syserr</i>          | (Optional) vPC consistency reason         |
| <i>reason_code</i>     | (Optional) vPC consistency reason         |

### Command Mode

- /exec



# show vpc fabric-ports

```
show vpc fabric-ports [ __readonly__ [ { TABLE_fabric_ports <vpc-fabric-ports> } ] ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| vpc                     | Virtual Port Channel configuration                  |
| fabric-ports            | Show ports that are part of uplink virtual-peerlink |
| __readonly__            | (Optional) Read Only                                |
| TABLE_fabric_ports      | (Optional) vPC fabric ports table                   |
| <i>vpc-fabric-ports</i> | (Optional) description of the port                  |

## Command Mode

- /exec

## show vpc orphan-ports

```
show vpc orphan-ports [ __readonly__ [ { TABLE_orphan_ports <vpc-vlan> <vpc-orphan-ports> } ] ]
```

### Syntax Description

|                    |   |
|--------------------|---|
| vpc                | Virtual Port Channel configuration                        |
| orphan-ports       | Show ports that are not part of vPC but have common VLANs |
| __readonly__       | (Optional) Read Only                                      |
| TABLE_orphan_ports | (Optional) vPC orphan ports table                         |
| vpc-vlan           | (Optional) port vlan                                      |
| vpc-orphan-ports   | (Optional) description of the port                        |

### Command Mode

- /exec

## show vpc peer-keepalive

```
show vpc peer-keepalive [ __readonly__ <vpc-peer-keepalive-status> <vpc-keepalive-dest>
<vpc-keepalive-send-interface> <vpc-keepalive-receive-interface> <vpc-keepalive-send-tstamp>
<vpc-keepalive-receive-tstamp> <vpc-peer-keepalive-up-time> <vpc-keepalive-send-status>
<vpc-keepalive-receive-status> <vpc-keepalive-lastupdate> [ <vpc-keepalive-dest> ] <vpc-keepalive-interval>
<vpc-keepalive-timeout> <vpc-keepalive-hold-timeout> <vpc-keepalive-vrf> <vpc-keepalive-udp-port>
<vpc-keepalive-tos> ]
```

### Syntax Description

|  |   |
|--|---|
| vpc                                    | Virtual Port Channel configuration              |
| peer-keepalive                         | vPC keepalive status                            |
| __readonly__                           | (Optional) Read Only                            |
| <i>vpc-peer-keepalive-status</i>       | (Optional) vpc peer keepalive status            |
| <i>vpc-keepalive-dest</i>              | (Optional) vPC keepalive destination ip address |
| <i>vpc-keepalive-send-status</i>       | (Optional) vPC keepalive send status            |
| <i>vpc-keepalive-receive-status</i>    | (Optional) vPC keepalive receive status         |
| <i>vpc-peer-keepalive-up-time</i>      | (Optional) keepalive- alive time                |
| <i>vpc-keepalive-send-tstamp</i>       | (Optional) vPC keepalive last send timestamp    |
| <i>vpc-keepalive-send-interface</i>    | (Optional) vPC keepalive send interface         |
| <i>vpc-keepalive-receive-tstamp</i>    | (Optional) vPC keepalive last receive timestamp |
| <i>vpc-keepalive-receive-interface</i> | (Optional) vPC keepalive receive interface      |
| <i>vpc-keepalive-lastupdate</i>        | (Optional) vPC keepalive last update from peer  |
| <i>vpc-keepalive-interval</i>          | (Optional) vPC keepalive timeout                |
| <i>vpc-keepalive-timeout</i>           | (Optional) vPC keepalive interval               |
| <i>vpc-keepalive-hold-timeout</i>      | (Optional) hold timeout                         |
| <i>vpc-keepalive-vrf</i>               | (Optional) vrf name                             |
| <i>vpc-keepalive-udp-port</i>          | (Optional) udp port                             |
| <i>vpc-keepalive-tos</i>               | (Optional) tos value                            |

### Command Mode

- /exec

# show vpc role

```
show vpc role [ __readonly__ <vpc-peer-status> <vpc-peer-status-reason> [ <vpc-current-role> ] [
<vpc-es-current-role> ] <dual-active-detected> <vpc-system-mac> <vpc-system-prio> <vpc-local-system-mac>
<vpc-local-system-prio><vpc-local-role-prio> <vpc-peer-system-mac>
<vpc-peer-system-prio><vpc-peer-role-prio> ]
```

## Syntax Description

|                               |   |
|-------------------------------|---|
| vpc                           | Virtual Port Channel configuration      |
| role                          | vPC role status                         |
| __readonly__                  | (Optional) Read Only                    |
| <i>vpc-peer-status</i>        | (Optional) vPC peer status              |
| <i>vpc-peer-status-reason</i> | (Optional) vPC peer status reason       |
| <i>vpc-current-role</i>       | (Optional) vPC role                     |
| <i>vpc-es-current-role</i>    | (Optional) vPC role                     |
| <i>dual-active-detected</i>   | (Optional) Dual active detection status |
| <i>vpc-system-mac</i>         | (Optional) vPC system mac               |
| <i>vpc-local-system-mac</i>   | (Optional) vPC local system mac         |
| <i>vpc-peer-system-mac</i>    | (Optional) vPC peer system mac          |
| <i>vpc-system-prio</i>        | (Optional) vPC system priority          |

## Command Mode

- /exec

## show vpc statistics peer-keepalive

show vpc statistics peer-keepalive [ *\_\_readonly\_\_* <vpc-peer-keepalive-status> <vpc-keepalive-counters-tx> <vpc-keepalive-counters-rx> <vpc-keepalive-avg-rx-interval> <vpc-keepalive-peer-state-changes> ]

### Syntax Description

|   |  |
|---|--|
| vpc                                     | Virtual Port Channel configuration       |
| statistics                              | Statistics                               |
| peer-keepalive                          | peer keepalive module related statistics |
| <i>__readonly__</i>                     | (Optional) Read Only                     |
| <i>vpc-peer-keepalive-status</i>        | (Optional) vpc peer keepalive status     |
| <i>vpc-keepalive-counters-tx</i>        | (Optional) tx counters                   |
| <i>vpc-keepalive-counters-rx</i>        | (Optional) rx counters                   |
| <i>vpc-keepalive-avg-rx-interval</i>    | (Optional) avg rx interval in ms         |
| <i>vpc-keepalive-peer-state-changes</i> | (Optional) peer state changes            |

### Command Mode

- /exec

# show vpc statistics vpc

show vpc statistics { vpc <vpc\_num> | peer-link }

## Syntax Description

|                |                                    |
|----------------|------------------------------------|
| vpc            | Virtual Port Channel configuration |
| statistics     | Statistics                         |
| <i>vpc_num</i> | Virtual Port Channel number        |
| peer-link      | stats for peer-link                |

## Command Mode

- /exec

# show vpc virtual-peerlink dest reachable

show vpc virtual-peerlink dest reachable

## Syntax Description

|                  |  |
|------------------|--|
| show             | Show running system information        |
| vpc              | vPC related information                |
| virtual-peerlink | virtual-peerlink Related show commands |
| dest             | dest info                              |
| reachable        | dest reachability                      |

## Command Mode

- /exec

# show vpc virtual-peerlink vlan consistency

show vpc virtual-peerlink vlan consistency

## Syntax Description

|                  |  |
|------------------|--|
| show             | Show running system information        |
| vpc              | vPC related information                |
| virtual-peerlink | virtual-peerlink Related show commands |
| vlan             | vlan info for vPC                      |
| consistency      | vlan vni consistency                   |

## Command Mode

- /exec



# show vrf

show vrf [ <vrf-name> | <vrf-known-name> | all ]

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                 |
| vrf                   | Display VRF information                         |
| <i>vrf-name</i>       | (Optional) VRF name                             |
| <i>vrf-known-name</i> | (Optional) Known VRF name                       |
| all                   | (Optional) Display VRF information for all VRFs |

## Command Mode

- /exec

# show vrf

```
show vrf [ <vrf-name> | <vrf-known-name> | all ] [ order id ] [ detail ] [ passive ] [ __readonly__ TABLE_vrf
<vrf_name> <vrf_id> <vrf_state> [ <vrf_reason> ] [ <vrf_pend> ] [ <vpnid> <rd> [ <vni> ] <max_routes>
<mid_threshold> ] [ { TABLE_tib <tib_id> <tib_af> <tib_nonce> <tib_state> [ <tib_reason> ] [ <tib_pend>
} ] ] ]
```

## Syntax Description

|                       |   |
|-----------------------|---|
| show                  | Show running system information                 |
| vrf                   | Display VRF information                         |
| <i>vrf-name</i>       | (Optional) VRF name                             |
| <i>vrf-known-name</i> | (Optional) Known VRF name                       |
| all                   | (Optional) Display VRF information for all VRFs |
| order                 | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED       |
| id                    | (Optional) Order by ID                          |
| detail                | (Optional) Display VRF detail information       |
| passive               | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED       |
| __readonly__          | (Optional)                                      |
| TABLE_vrf             | (Optional)                                      |
| TABLE_tib             | (Optional)                                      |
| <i>vrf_name</i>       | (Optional)                                      |
| <i>vrf_id</i>         | (Optional)                                      |
| <i>vrf_state</i>      | (Optional)                                      |
| <i>vrf_reason</i>     | (Optional)                                      |
| <i>vrf_pend</i>       | (Optional)                                      |
| <i>vpnid</i>          | (Optional)                                      |
| <i>rd</i>             | (Optional)                                      |
| <i>max_routes</i>     | (Optional)                                      |
| <i>mid_threshold</i>  | (Optional)                                      |
| <i>tib_id</i>         | (Optional)                                      |
| <i>tib_af</i>         | (Optional)                                      |

|                   |            |
|-------------------|------------|
| <i>tib_nonce</i>  | (Optional) |
| <i>tib_state</i>  | (Optional) |
| <i>tib_reason</i> | (Optional) |
| <i>tib_pend</i>   | (Optional) |
| <i>vni</i>        | (Optional) |

**Command Mode**

- /exec

# show vrrp

```
show vrrp [ [ summary ] | { [ statistics | detail ] [ interface <interface_id> ] [ vr <vr_id> ] [ master | backup |
init ] + } ] [ __readonly__ [ [ TABLE_vrrp_group <sh_if_index> <sh_group_id> <sh_group_type>
<sh_group_state> <sh_group_preempt> <sh_vip_addr> { [ TABLE_sec_vip_addr <sh_sec_vip_addr> ] }
<sh_priority> [ <sh_cfg_priority> <sh_fwd_thr_lower> <sh_fwd_thr_upper> ] <sh_adv_interval> [
<sh_auth_text> ] [ <sh_vmac> ] [ <sh_master_router> ] [ <sh_native_track_intf> <sh_native_track_priotiry>
] { [ TABLE_vrrp_track <sh_track_object_id> <sh_decrement_priority> <sh_track_object_state> ] } [
<sh_bfd_status> <sh_bfd_session> ] ] [ { TABLE_vrrp_statistics [ <if_index> ] [ <grp_id> ] [ <grp_type> ]
[ <master_cnt> ] [ <adv_pkts> ] [ <adv_intv_mismatch> ] [ <auth_failure> ] [ <ttl_err> ] [ <zero_pri_adv_rcvd>
] [ <zero_pri_adv_sent> ] [ <type_fl_mismatch> ] [ <addr_mismatch> ] [ <inv_auth> ] [ <auth_mismatch>
] [ <inv_pkt_len> ] } ] [ <total_num_of_grp> ] [ <init_grps> ] [ <backup_grps> ] [ <master_grps> ] [
<vrrp_enabled_ifs> ] [ <mts_rx> ] [ <mts_tx> ] [ <pkt_rx> ] [ <pkt_tx> ] ] + ]
```

## Syntax Description

|                         |   |
|-------------------------|---|
| show                    | Show running system information             |
| vrrp                    | Show vrrp information                       |
| summary                 | (Optional) Show vrrp summary                |
| statistics              | (Optional) Show vrrp statistics             |
| detail                  | (Optional) Show detailed information        |
| interface               | (Optional) Show vrrp info for the interface |
| <i>interface_id</i>     | (Optional)                                  |
| vr                      | (Optional) Show vrrp info for the group     |
| <i>vr_id</i>            | (Optional) [1-255] enter IPv4 vr group      |
| master                  | (Optional) Groups in Master state           |
| backup                  | (Optional) Groups in Backup state           |
| init                    | (Optional) Groups in Init state             |
| __readonly__            | (Optional) Read only                        |
| TABLE_vrrp_group        | (Optional) Group detail table               |
| <i>sh_if_index</i>      | (Optional) Interface type and number        |
| <i>sh_group_id</i>      | (Optional) Group number                     |
| <i>sh_group_type</i>    | (Optional) Group type                       |
| <i>sh_group_state</i>   | (Optional) VRRP group state                 |
| <i>sh_group_preempt</i> | (Optional) Group preemption statue          |

|                                 |   |
|---------------------------------|---|
| <i>sh_vip_addr</i>              | (Optional) Virtual IP Address                     |
| TABLE_sec_vip_addr              | (Optional) Secondary virtual ip address table     |
| <i>sh_sec_vip_addr</i>          | (Optional) Secondary virtual ip address           |
| <i>sh_priority</i>              | (Optional) Priority of VRRP group                 |
| <i>sh_auth_text</i>             | (Optional) Authentication text                    |
| <i>sh_cfg_priority</i>          | (Optional) Configured priority of VRRP group      |
| <i>sh_fwd_thr_lower</i>         | (Optional) Lower forwarding threshold             |
| <i>sh_fwd_thr_upper</i>         | (Optional) Upper forwarding threshold             |
| <i>sh_adv_interval</i>          | (Optional) Advertisement interval                 |
| <i>sh_vmac</i>                  | (Optional) Virtual MAC                            |
| <i>sh_master_router</i>         | (Optional) Master router                          |
| <i>sh_native_track_intf</i>     | (Optional) Native tracked interface               |
| <i>sh_native_track_priotiry</i> | (Optional) Decrement priority for Native tracking |
| TABLE_vrrp_track                | (Optional) VRRP tracking table                    |
| <i>sh_track_object_id</i>       | (Optional) Object id of tracking object           |
| <i>sh_decrement_priority</i>    | (Optional) Decrement priority                     |
| <i>sh_track_object_state</i>    | (Optional) Tracking object state                  |
| <i>sh_bfd_status</i>            | (Optional) BFD status                             |
| <i>sh_bfd_session</i>           | (Optional) BFD session status                     |
| TABLE_vrrp_statistics           | (Optional) VRRP statistics table                  |
| <i>if_index</i>                 | (Optional) Interface type and number              |
| <i>grp_id</i>                   | (Optional) Group number                           |
| <i>grp_type</i>                 | (Optional) Group type                             |
| <i>master_cnt</i>               | (Optional) VRRP Master                            |
| <i>adv_pkts</i>                 | (Optional) Advertisement pkts                     |
| <i>adv_intv_mismatch</i>        | (Optional) Advertisement interval mismatch        |
| <i>auth_failure</i>             | (Optional) Auth failure                           |
| <i>ttl_err</i>                  | (Optional) TTL error                              |
| <i>zero_pri_adv_rcvd</i>        | (Optional) Zero pri adv received                  |

|                          |  |
|--------------------------|--|
| <i>zero_pri_adv_sent</i> | (Optional) Zero pri adv sent                 |
| <i>type_fl_mismatch</i>  | (Optional) Invalid type field                |
| <i>addr_mismatch</i>     | (Optional) Address mismatch                  |
| <i>inv_auth</i>          | (Optional) Invalid auth type                 |
| <i>auth_mismatch</i>     | (Optional) Authentication mismatch           |
| <i>inv_pkt_len</i>       | (Optional) Invalid pkt length                |
| <i>total_num_of_grp</i>  | (Optional) Total Number of Groups Configured |
| <i>init_grps</i>         | (Optional) Init groups                       |
| <i>backup_grps</i>       | (Optional) Backup groups                     |
| <i>master_grps</i>       | (Optional) Master groups                     |
| <i>vrrp_enabled_ifs</i>  | (Optional) Number of VRRP enabled interfaces |
| <i>mts_rx</i>            | (Optional) Total MTS Rx                      |
| <i>mts_tx</i>            | (Optional) Total MTS Tx                      |
| <i>pkt_rx</i>            | (Optional) Total Pkt Rx                      |
| <i>pkt_tx</i>            | (Optional) Total Pkt Tx                      |

### Command Mode

- /exec

## show vrrp bfd-sessions

```
show vrrp bfd-sessions [ interface <interface-id> [ to <ipaddress> ] ] [ __readonly__ TABLE_bfd_sess
<interface> { <src_addr> | <src_addr_v6> } { <dst_addr> | <dst_addr_v6> } <session_state> <ref_count>
<displayed_interface> { TABLE_groups <group_id> <vrrp_state> <bfd_status> <operation> <time> } ]
```

### Syntax Description

|                            |                                     |
|----------------------------|-------------------------------------|
| show                       | Show running system information     |
| vrrp                       | Show vrrp information               |
| bfd-sessions               | BFD sessions                        |
| interface                  | (Optional) Groups on this interface |
| <i>interface-id</i>        | (Optional) Interface                |
| to                         | (Optional) To IP address            |
| <i>ipaddress</i>           | (Optional) Sessions to IP address   |
| <i>__readonly__</i>        | (Optional)                          |
| TABLE_bfd_sess             | (Optional)                          |
| <i>interface</i>           | (Optional) Interface                |
| <i>src_addr</i>            | (Optional) IPv4 Source address      |
| <i>dst_addr</i>            | (Optional) IPv4 Destination address |
| <i>session_state</i>       | (Optional) Session state            |
| <i>ref_count</i>           | (Optional) Ref count                |
| <i>displayed_interface</i> | (Optional) Displayed interface      |
| TABLE_groups               | (Optional)                          |
| <i>group_id</i>            | (Optional) Group id                 |
| <i>vrrp_state</i>          | (Optional) VRRP STATE               |
| <i>bfd_status</i>          | (Optional) BFD STATE                |
| <i>operation</i>           | (Optional) Operation                |
| <i>time</i>                | (Optional) Time                     |

### Command Mode

- /exec

## show vrrpv3

```
show vrrpv3 [ brief | detail | statistics ] [ <intf> [ <group_num> ] ] [ <opt_v4_or_v6> ] [ all ] [ __readonly__
[ <global_drops> ] [ { TABLE_istats [ <i_intf> ] [ <i_drops> ] [ <ttl> ] [ <checksum> ] [ <version> ] [
<type> ] [ <length> ] [ <badid> ] [ <other> } ] ] [ { TABLE_grp [ <intf> ] [ <id> ] [ <af> ] [ <desc> ] [ <state>
] [ <duration> ] [ <vip> ] [ { TABLE_sec [ <addr> ] [ <prefix> } ] ] [ <vmac> ] [ <adv> ] [ <owner> ] [
<preempt> ] [ <delay> ] [ <delay_rem> ] [ <priority> ] [ <cfg_priority> ] [ <m_addr> ] [ <m_priority> ] [
<m_adv> ] [ <m_expire> ] [ <down> ] [ <down_expire> ] [ <t_id> ] [ <t_dec_prio> ] [ <t_state> ] [ <adv_sent>
] [ <adv_err> ] [ <adv_rcvd> ] [ <v2adv_sent> ] [ <v2adv_err> ] [ <v2adv_rcvd> ] [ <drops> ] [ <incompat>
] [ <conflict> ] [ <bad_count> ] [ <bad_addr> ] [ <bad_config> ] [ <bad_advert> ] [ <bad_state> ] [ <bad_other>
] [ <init_master> ] [ <init_master_time> ] [ <init_backup> ] [ <init_backup_time> ] [ <back_master> ] [
<back_master_time> ] [ <master_back> ] [ <master_back_time> ] [ <mast_init> ] [ <mast_init_time> ] [
<back_init> ] [ <back_init_time> } ] ] ] + [ { TABLE_vbrief [ <intf_b> ] [ <id_b> ] [ <af_b> ] [ <priority_b>
] [ <down_b> ] [ <owner_b> ] [ <preempt_b> ] [ <state_b> ] [ <m_addr_b> ] [ <vip_b> } ] ] ] ]
```

### Syntax Description

|                     |  |
|---------------------|--|
| show                | Show running system information              |
| vrrpv3              | VRRPv3 Show commands                         |
| all                 | (Optional) All VRRPV3 information            |
| brief               | (Optional) Brief output                      |
| detail              | (Optional) Detail output                     |
| statistics          | (Optional) Statistics output                 |
| <i>opt_v4_or_v6</i> | (Optional) Enter ipv4 or ipv6                |
| <i>intf</i>         | (Optional) Interface                         |
| <i>group_num</i>    | (Optional) Group Number                      |
| <i>__readonly__</i> | (Optional)                                   |
| TABLE_istats        | (Optional) Interface-level VRRPv3 statistics |
| TABLE_grp           | (Optional) VRRP Groups                       |
| TABLE_sec           | (Optional) Secondary Addresses               |
| TABLE_vbrief        | (Optional) VRRP Brief                        |
| <i>global_drops</i> | (Optional) Total dropped packets             |
| <i>i_intf</i>       | (Optional) Interface                         |
| <i>i_drops</i>      | (Optional) Total dropped packets             |
| <i>ttl</i>          | (Optional) Invalid TTL/Hop limit             |
| <i>checksum</i>     | (Optional) Invalid checksum                  |



|                     |  |
|---------------------|--|
| <i>version</i>      | (Optional) Invalid version               |
| <i>type</i>         | (Optional) Invalid message type          |
| <i>length</i>       | (Optional) Invalid length                |
| <i>badid</i>        | (Optional) Invalid group ID              |
| <i>other</i>        | (Optional) Other                         |
| <i>intf</i>         | (Optional) Interface                     |
| <i>id</i>           | (Optional) Group ID                      |
| <i>af</i>           | (Optional) Address family                |
| <i>desc</i>         | (Optional) Description                   |
| <i>state</i>        | (Optional) Group state                   |
| <i>duration</i>     | (Optional) Time in current state         |
| <i>vip</i>          | (Optional) Primary virtual IP address    |
| <i>addr</i>         | (Optional) Secondary virtual IP address  |
| <i>prefix</i>       | (Optional) Secondary vIP prefix          |
| <i>vmac</i>         | (Optional) Virtual MAC address           |
| <i>adv</i>          | (Optional) Advertisement interval        |
| <i>preempt</i>      | (Optional) Preemption status             |
| <i>owner</i>        | (Optional) Owner mode                    |
| <i>delay</i>        | (Optional) Preemption delay              |
| <i>delay_rem</i>    | (Optional) Preemption delay remaining    |
| <i>priority</i>     | (Optional) Priority                      |
| <i>cfg_priority</i> | (Optional) Configured priority           |
| <i>m_addr</i>       | (Optional) Group master router address   |
| <i>m_priority</i>   | (Optional) Group master priority         |
| <i>m_adv</i>        | (Optional) Master advertisement interval |
| <i>m_expire</i>     | (Optional) Master expiration             |
| <i>down</i>         | (Optional) Master down interval          |
| <i>down_expire</i>  | (Optional) Master down expiration        |
| <i>t_id</i>         | (Optional) Tracking object ID            |

|                         |   |
|-------------------------|---|
| <i>t_dec_prio</i>       | (Optional) Priority to decrement          |
| <i>t_state</i>          | (Optional) Tracking object state          |
| <i>adv_sent</i>         | (Optional) Advertisements sent            |
| <i>adv_err</i>          | (Optional) Advertisement errors           |
| <i>adv_recvd</i>        | (Optional) Advertisements received        |
| <i>v2adv_sent</i>       | (Optional) Advertisements sent (v2)       |
| <i>v2adv_err</i>        | (Optional) Advertisement errors (v2)      |
| <i>v2adv_recvd</i>      | (Optional) Advertisements received (v2)   |
| <i>drops</i>            | (Optional) Total dropped packets          |
| <i>incompat</i>         | (Optional) v2, Incompatible               |
| <i>conflict</i>         | (Optional) Address owner conflicts        |
| <i>bad_count</i>        | (Optional) Invalid address count          |
| <i>bad_addr</i>         | (Optional) Invalid IP address             |
| <i>bad_config</i>       | (Optional) Invalid IP address config      |
| <i>bad_advert</i>       | (Optional) Invalid advertisement interval |
| <i>bad_state</i>        | (Optional) Invalid group state            |
| <i>bad_other</i>        | (Optional) Other                          |
| <i>init_master</i>      | (Optional) Init to Master                 |
| <i>init_master_time</i> | (Optional) Last Occurrence                |
| <i>init_backup</i>      | (Optional) Init to Backup                 |
| <i>init_backup_time</i> | (Optional) Last Occurrence                |
| <i>back_master</i>      | (Optional) Backup to Master               |
| <i>back_master_time</i> | (Optional) Last Occurrence                |
| <i>master_back</i>      | (Optional) Master to Backup               |
| <i>master_back_time</i> | (Optional) Last Occurrence                |
| <i>mast_init</i>        | (Optional) Master to Init                 |
| <i>mast_init_time</i>   | (Optional) Last Occurrence                |
| <i>back_init</i>        | (Optional) Backup to Init                 |
| <i>back_init_time</i>   | (Optional) Last Occurrence                |

|                   |  |
|-------------------|--|
| <i>intf_b</i>     | (Optional) Interface                   |
| <i>id_b</i>       | (Optional) Group ID                    |
| <i>af_b</i>       | (Optional) Address family              |
| <i>priority_b</i> | (Optional) Priority                    |
| <i>down_b</i>     | (Optional) Master down interval        |
| <i>owner_b</i>    | (Optional) Owner mode                  |
| <i>preempt_b</i>  | (Optional) Preemption status           |
| <i>state_b</i>    | (Optional) Group state                 |
| <i>m_addr_b</i>   | (Optional) Group master router address |
| <i>vip_b</i>      | (Optional) Primary virtual IP address  |

**Command Mode**

- /exec

# show vrrs client

```
show vrrs client [ <cname> ] [ __readonly__ { TABLE_client <name> <id> <all> <priority> { TABLE_tags <tname> } } ]
```

## Syntax Description

|                     |                                    |
|---------------------|------------------------------------|
| vrrs                | VRRS Show commands                 |
| show                | Show running system information    |
| client              | Information about VRRS clients     |
| <i>cname</i>        | (Optional) VRRS client name        |
| <i>__readonly__</i> | (Optional)                         |
| TABLE_client        | (Optional) VRRS clients            |
| TABLE_tags          | (Optional) VRRS tags               |
| <i>name</i>         | (Optional) VRRS client name        |
| <i>id</i>           | (Optional) VRRS client id          |
| <i>priority</i>     | (Optional) Priority                |
| <i>all</i>          | (Optional) Client follows all tags |
| <i>tname</i>        | (Optional) VRRS tag name           |

## Command Mode

- /exec

# show vrrs pathway

```
show vrrs pathway [ <intf> ] [ __readonly__ { TABLE_pws <name> <state> <vrrs_push_state> <vmac>
<vmac_state> <vmac_dbg> [ <pvmac> ] [ <pvmac_state> ] [ <pvmac_dbg> ] <af> [ <desc> ] <opt> <eval>
[ { TABLE_vips <addr> [ <flags> ] } } ] ]
```

## Syntax Description

|                        |   |
|------------------------|---|
| vrrs                   | VRRS Show commands                      |
| show                   | Show running system information         |
| pathway                | Information about VRRS pathways         |
| <i>intf</i>            | (Optional) Interface                    |
| <i>__readonly__</i>    | (Optional)                              |
| TABLE_pws              | (Optional) Show VRRS pathways           |
| TABLE_vips             | (Optional) Pathway vIP addresses        |
| <i>name</i>            | (Optional) Pathway name                 |
| <i>state</i>           | (Optional) Pathway state                |
| <i>vrrs_push_state</i> | (Optional) VRRS push state              |
| <i>vmac</i>            | (Optional) Virtual MAC address          |
| <i>vmac_state</i>      | (Optional) Virtual MAC state            |
| <i>vmac_dbg</i>        | (Optional) Virtual MAC debug flags      |
| <i>pvmac</i>           | (Optional) Previous Virtual MAC address |
| <i>pvmac_state</i>     | (Optional) Previous MAC state           |
| <i>pvmac_dbg</i>       | (Optional) Previous MAC debug flags     |
| <i>af</i>              | (Optional) Pathway address-family       |
| <i>desc</i>            | (Optional) Pathway description          |
| <i>opt</i>             | (Optional) Option flags                 |
| <i>eval</i>            | (Optional) Eval flags                   |
| <i>addr</i>            | (Optional) Virtual IP address           |
| <i>flags</i>           | (Optional) Virtual IP address flags     |

## Command Mode

- /exec

# show vrrs server

```
show vrrs server [ __readonly__ { TABLE_srv <name> <af> <intf> <state> <vmac> <vip> [ { TABLE_tag
<tag> } ] } ]
```

## Syntax Description

|              |  |
|--------------|--|
| vrrs         | VRRS Show commands                               |
| show         | Show running system information                  |
| server       | Information about VRRS servers                   |
| __readonly__ | (Optional)                                       |
| TABLE_srv    | (Optional) VRRS Servers                          |
| TABLE_tag    | (Optional) VRRS tags associated with each server |
| <i>name</i>  | (Optional) VRRS server name                      |
| <i>af</i>    | (Optional) Address-family                        |
| <i>intf</i>  | (Optional) Interface                             |
| <i>state</i> | (Optional) VRRS server state                     |
| <i>vmac</i>  | (Optional) Virtual MAC address                   |
| <i>vip</i>   | (Optional) Virtual IP address                    |
| <i>tag</i>   | (Optional) VRRS tag                              |

## Command Mode

- /exec

# show vrrs tag

```
show vrrs tag [ <tagname> ] [ __readonly__ { TABLE_tag <name> <server> [ { TABLE_client <id> <client>
<all> } ] } ]
```

## Syntax Description

|                     |                                    |
|---------------------|------------------------------------|
| vrrs                | VRRS Show commands                 |
| show                | Show running system information    |
| tag                 | Information about VRRS tags        |
| <i>tagname</i>      | (Optional) VRRS tag                |
| <i>__readonly__</i> | (Optional)                         |
| TABLE_tag           | (Optional) Known VRRS tags         |
| TABLE_client        | (Optional) VRRS clients listening  |
| <i>name</i>         | (Optional) VRRS tag name           |
| <i>server</i>       | (Optional) VRRS server name        |
| <i>id</i>           | (Optional) VRRS client id          |
| <i>client</i>       | (Optional) VRRS client name        |
| <i>all</i>          | (Optional) Client follows all tags |

## Command Mode

- /exec

# show vsan

```
show vsan [ <id_in> ] [ __readonly__ { TABLE_vsan <id> { [ <name> <state> <interop_mode>
<load_balancing> <operational_state> ] | <inactive_vsan_name> | <evfp_control_vsan_name> } } ]
```

## Syntax Description

|                               |                                  |
|-------------------------------|----------------------------------|
| show                          | Show running system information  |
| vsan                          | Vsan commands                    |
| <i>id_in</i>                  | (Optional) VSAN ID range         |
| <i>__readonly__</i>           | (Optional) Read Only             |
| TABLE_vsan                    | (Optional) Table of VSAN's       |
| <i>id</i>                     | (Optional) VSAN ID               |
| <i>name</i>                   | (Optional) VSAN name             |
| <i>state</i>                  | (Optional) VSAN state            |
| <i>interop_mode</i>           | (Optional) Interoperability mode |
| <i>load_balancing</i>         | (Optional) Load balancing        |
| <i>operational_state</i>      | (Optional) Operational state     |
| <i>inactive_vsan_name</i>     | (Optional) Isolated VSAN         |
| <i>evfp_control_vsan_name</i> | (Optional) EVFP isolated VSAN    |

## Command Mode

- /exec



# show vsan membership

```
show vsan [ <id_in> ] membership [ __readonly__ { TABLE_vsan <id> [ <inactive_vsan_name> ] [
<evfp_control_vsan_name> ] [ TABLE_interface <name> ] } ]
```

## Syntax Description

|                               |                                      |
|-------------------------------|--------------------------------------|
| show                          | Show running system information      |
| vsan                          | Vsan commands                        |
| <i>id_in</i>                  | (Optional) VSAN ID range             |
| membership                    | VSAN membership information          |
| <i>__readonly__</i>           | (Optional) Read Only                 |
| TABLE_vsan                    | (Optional) VSAN table                |
| <i>id</i>                     | (Optional) VSAN ID                   |
| <i>inactive_vsan_name</i>     | (Optional) Isolated VSAN             |
| <i>evfp_control_vsan_name</i> | (Optional) EVFP isolated VSAN        |
| TABLE_interface               | (Optional) List of interface members |
| <i>name</i>                   | (Optional) Interface name            |

## Command Mode

- /exec

## show vsan membership interface

```
show vsan membership interface <if_in> [ __readonly__ { TABLE_interface <name> <vsan_id_memb> [
<inactive_vsan_name> | <evfp_control_vsan_name> ] <allowed_vsan_list> } ]
```

### Syntax Description

|                               |   |
|-------------------------------|---|
| show                          | Show running system information               |
| vsan                          | Vsan commands                                 |
| membership                    | VSAN membership information                   |
| interface                     | Show interface status and information         |
| <i>if_in</i>                  | Interface range                               |
| <i>__readonly__</i>           | (Optional) Read Only                          |
| <i>TABLE_interface</i>        | (Optional) Interface VSAN table               |
| <i>name</i>                   | (Optional) Interface Name                     |
| <i>vsan_id_memb</i>           | (Optional) VSAN ID to which interface belongs |
| <i>inactive_vsan_name</i>     | (Optional) Isolated VSAN                      |
| <i>evfp_control_vsan_name</i> | (Optional) EVFP isolated VSAN                 |
| <i>allowed_vsan_list</i>      | (Optional) Allowed VSAN list                  |

### Command Mode

- /exec

# show vsan usage

```
show vsan usage [ __readonly__ { <num_vsans_configured> <configured_range_of_vsans>
<vsans_available_to_configure> } ]
```

## Syntax Description

|                                     |  |
|-------------------------------------|--|
| show                                | Show running system information              |
| vsan                                | Vsan commands                                |
| usage                               | show VSAN usage in the system                |
| <i>__readonly__</i>                 | (Optional) Read Only                         |
| <i>num_vsans_configured</i>         | (Optional) Total VSAN's configured           |
| <i>configured_range_of_vsans</i>    | (Optional) Range of VSAN's configured        |
| <i>vsans_available_to_configure</i> | (Optional) VSAN range available to configure |

## Command Mode

- /exec

## show vtp counters

```
show vtp counters [ __readonly__ <start> <summary_rx> <subset_rx> <request_rx> <summary_tx>
<subset_tx> <request_tx> <num_config_rev_error> <num_config_digest_error> <num_v1_summary_error>
[ { TABLE_pruning_counters <if_index> <join_tx> <join_rx> <summary_adv_v1_rx> } ] ]
```

### Syntax Description

|                                |   |
|--------------------------------|---|
| show                           | Show running system information                                   |
| vtp                            | VTP information   |
| counters                       | VTP statistics  |
| <i>__readonly__</i>            | (Optional) Read Only  |
| <i>start</i>                   | (Optional) Start  |
| <i>summary_rx</i>              | (Optional) Summary advertisements received                        |
| <i>subset_rx</i>               | (Optional) Subset advertisements received                         |
| <i>request_rx</i>              | (Optional) Request advertisements received                        |
| <i>summary_tx</i>              | (Optional) Summary advertisements transmitted                     |
| <i>subset_tx</i>               | (Optional) Subset advertisements transmitted                      |
| <i>request_tx</i>              | (Optional) Request advertisements transmitted                     |
| <i>num_config_rev_error</i>    | (Optional) Number of config revision errors                       |
| <i>num_config_digest_error</i> | (Optional) Number of config digest errors                         |
| <i>num_v1_summary_error</i>    | (Optional) Number of V1 summary errors                            |
| TABLE_pruning_counters         | (Optional) Pruning counters in table format                       |
| <i>if_index</i>                | (Optional) Trunk  |
| <i>join_tx</i>                 | (Optional) Join Transmitted                                       |
| <i>join_rx</i>                 | (Optional) Join Received  |
| <i>summary_adv_v1_rx</i>       | (Optional) Summary advts received from non-pruning-capable device |

### Command Mode

- /exec

# show vtp interface

```
show vtp interface [ <interface_range> ] [ __readonly__ [ <start> ] { TABLE_vtp_interface <if_index>
<status> } ]
```

## Syntax Description

|                        |  |
|------------------------|--|
| show                   | Show running system information                        |
| vtp                    | VTP information  |
| interface              | VTP interface status and configuration                 |
| <i>interface_range</i> | (Optional) Enter interfaces                            |
| <i>__readonly__</i>    | (Optional) Read Only                                   |
| <i>start</i>           | (Optional) Start                                       |
| TABLE_vtp_interface    | (Optional) VTP interface configuration in table format |
| <i>if_index</i>        | (Optional) Trunk                                       |
| <i>status</i>          | (Optional) VTP interface status                        |

## Command Mode

- /exec

# show vtp password

```
show vtp password [ domain <domain-id> ] [ __readonly__ <start> <passwd> <password-type> <secret-key> ]
```

## Syntax Description

|                      |  |
|----------------------|--|
| show                 | Show running system information                  |
| vtp                  | VTP information                                  |
| password             | VTP password                                     |
| domain               | (Optional) VTP administrative domain             |
| <i>domain-id</i>     | (Optional) Domain index(Domain-id)               |
| <i>__readonly__</i>  | (Optional) Read Only                             |
| <i>start</i>         | (Optional) Start                                 |
| <i>passwd</i>        | (Optional) VTP Domain Password                   |
| <i>password-type</i> | (Optional) Password Type (1=plaintext, 2=hidden) |
| <i>secret-key</i>    | (Optional) Secret Key for the password           |

## Command Mode

- /exec

## show vtp status

```
show vtp status [ __readonly__ <start> <version> <config_rev> <max_vlan_supported_local>
<num_current_vlans> <oper_mode> <domain_name> <pruning_mode> <oper_pruning_mode> <v2_mode>
<trap_enabled> <md5_digest> <last_modified_ip> <last_modified_time> <running-version> <updater_id>
<updater_reason> ]
```

### Syntax Description

|                                 |  |
|---------------------------------|--|
| show                            | Show running system information            |
| vtp                             | VTP information                            |
| status                          | VTP domain status                          |
| <i>__readonly__</i>             | (Optional) Read Only                       |
| <i>start</i>                    | (Optional) Start                           |
| <i>version</i>                  | (Optional) VTP version                     |
| <i>config_rev</i>               | (Optional) Configuration Revision          |
| <i>max_vlan_supported_local</i> | (Optional) Maximum VLANs supported locally |
| <i>num_current_vlans</i>        | (Optional) Number of existing VLANs        |
| <i>oper_mode</i>                | (Optional) VTP Mode                        |
| <i>domain_name</i>              | (Optional) VTP Domain Name                 |
| <i>pruning_mode</i>             | (Optional) Pruning Mode                    |
| <i>oper_pruning_mode</i>        | (Optional) Operational Pruning Mode        |
| <i>v2_mode</i>                  | (Optional) VTP v2 Mode                     |
| <i>trap_enabled</i>             | (Optional) trap enabled                    |
| <i>md5_digest</i>               | (Optional) MD5 Digest                      |
| <i>last_modified_ip</i>         | (Optional) Configuration last modified by  |
| <i>last_modified_time</i>       | (Optional) Configuration last modified at  |
| <i>running-version</i>          | (Optional) VTP Version Running             |
| <i>updater_id</i>               | (Optional) Local Updater id                |
| <i>updater_reason</i>           | (Optional) Local Updater id reason         |

### Command Mode

- /exec

show vtp status





## W Show Commands

---

- [show wred-queue qos-group-map](#), on page 2810
- [show wrr unicast-bandwidth](#), on page 2811
- [show wwn status](#), on page 2812
- [show wwn switch](#), on page 2813
- [show wwn test](#), on page 2814
- [show wwn vsan-wwn](#), on page 2816

# show wred-queue qos-group-map

```
show wred-queue qos-group-map [ __readonly__ TABLE_wred_queue_qos_group_map
<wred-queue><qos-group-map> ]
```

## Syntax Description

|                                |  |
|--------------------------------|--|
| show                           | Show running system information              |
| wred-queue                     | Show WRED qos-group information              |
| qos-group-map                  | Display mapping of the qos-group information |
| __readonly__                   | (Optional)                                   |
| TABLE_wred_queue_qos_group_map | (Optional) XML show wred-queue qos-group-map |

## Command Mode

- /exec

# show wrr unicast-bandwidth

show wrr unicast-bandwidth [ \_\_readonly\_\_ TABLE\_wrr\_unicast\_bandwidth <unicast-bandwidth> ]

## Syntax Description

|                             |   |
|-----------------------------|---|
| show                        | Show running system information           |
| wrr                         | unicast bandwidth configuration           |
| unicast-bandwidth           | rate in percentage of data rate           |
| __readonly__                | (Optional)                                |
| TABLE_wrr_unicast_bandwidth | (Optional) XML show wrr unicast-bandwidth |
| <i>unicast-bandwidth</i>    | (Optional) unicast bandwidth value        |

## Command Mode

- /exec

## show wwn status

```
show wwn status [ { backplane-prom | block-id <i0> | non-volatile-pss | volatile-pss } ] [ __readonly__ [
TABLE_status <type> <configured> <available> <avbl_percent> <resd> <alarm> ] [ <wwn_start> <wwn_end>
<num_of_wwn> <allocated_wwn> <available_wwn> <alloc_status> ] ]
```

### Syntax Description

|                  |   |
|------------------|---|
| show             | Show running system information           |
| wwn              | show wwn information                      |
| status           | Show overall WWN Usage and Alarm Status   |
| backplane-prom   | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| block-id         | (Optional) Enter a block id.              |
| i0               | (Optional) Enter a block id.              |
| non-volatile-pss | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| volatile-pss     | THIS KEYWORD OR VARIABLE IS NOT SUPPORTED |
| __readonly__     | (Optional) Read Only                      |
| TABLE_status     | (Optional) show wwn status table          |
| type             | (Optional) WWN Type                       |
| configured       | (Optional) Number of Configured WWNs      |
| available        | (Optional) Number of Available WWNs       |
| avbl_percent     | (Optional) Available % of WWNs            |
| resd             | (Optional) Reserved WWNs                  |
| alarm            | (Optional) Alarm State                    |
| wwn_start        | (Optional) Start value of WWN-range       |
| wwn_end          | (Optional) End value of WWN-range         |
| num_of_wwn       | (Optional) Total Number of WWNs           |
| allocated_wwn    | (Optional) Number of Allocated WWNs       |
| available_wwn    | (Optional) Number of Available WWNs       |
| alloc_status     | (Optional) Block Allocation Status        |

### Command Mode

- /exec

# show wwn switch

```
show wwn switch [ __readonly__ { <sw_wwn> } ]
```

## Syntax Description

|               |                                 |
|---------------|---------------------------------|
| show          | Show running system information |
| wwn           | show wwn information            |
| switch        | Show switch WWN                 |
| __readonly__  | (Optional) Read Only            |
| <i>sw_wwn</i> | (Optional) The Switch WWN       |

## Command Mode

- /exec

## show wwn test

```
show wwn test { get_swwn_from_pwwn <wwn0> | get_pwwn_from_swwn <wwn1> if_index <i0> |
get_ifindex_from_fwwn <wwn2> | get_ifindex_from_pwwn <wwn3> | validate_pwwn_given_swwn <wwn4>
pwwn <wwn5> | get_all_pwwn_for_slot <i1> | get_kc_type_given_swwn <wwn6> pwwn <wwn7> |
get_ifindex_from_pwwn_swwn <wwn8> pwwn <wwn9> }
```

### Syntax Description

|                          |                                    |
|--------------------------|------------------------------------|
| show                     | show running system information    |
| wwn                      | show wwn information               |
| test                     | show wwn information for testing   |
| get_swwn_from_pwwn       | show switch wwn from port wwn      |
| <i>wwn0</i>              | port wwn                           |
| get_pwwn_from_swwn       | show port wwn from switch wwn      |
| <i>wwn1</i>              | switch wwn                         |
| if_index                 | interface index                    |
| <i>i0</i>                | Interface index                    |
| get_ifindex_from_fwwn    | show ifindex from fabric wwn       |
| <i>wwn2</i>              | fabric wwn                         |
| get_ifindex_from_pwwn    | show ifindex from port wwn         |
| <i>wwn3</i>              | port wwn                           |
| validate_pwwn_given_swwn | validate port wwn for given swwn   |
| <i>wwn4</i>              | switch wwn                         |
| pwwn                     | port wwn                           |
| <i>wwn5</i>              | port wwn                           |
| get_all_pwwn_for_slot    | show all port wwn for a given slot |
| <i>i1</i>                | Slot number                        |
| get_kc_type_given_swwn   | show KC type                       |
| <i>wwn6</i>              | switch wwn                         |
| pwwn                     | port wwn                           |
| <i>wwn7</i>              | port wwn                           |

|                            |                                      |
|----------------------------|--------------------------------------|
| get_ifindex_from_pwwn_swwn | show ifindex for given pwwn and swwn |
| wwn8                       | switch wwn                           |
| pwwn                       | port wwn                             |
| wwn9                       | port wwn                             |

**Command Mode**

- /exec

## show wwn vsan-wwn

```
show wwn vsan-wwn [ __readonly__ [ TABLE_wwnvsan <vsan_id> <wwn_conf> ] ]
```

### Syntax Description

|                 |                                   |
|-----------------|-----------------------------------|
| show            | Show running system information   |
| wwn             | show wwn information              |
| vsan-wwn        | Show all user configured vsan wwn |
| __readonly__    | (Optional) Read Only              |
| TABLE_wwnvsan   | (Optional) vsan-wwn table         |
| <i>vsan_id</i>  | (Optional) VSAN ID                |
| <i>wwn_conf</i> | (Optional) wwn configured by user |

### Command Mode

- /exec





## X Show Commands

---

- [show xml server logging configuration, on page 2818](#)
- [show xml server status, on page 2819](#)

# show xml server logging configuration

show xml server logging configuration

## Syntax Description

|               |  |
|---------------|--|
| show          | Show running system information                    |
| xml           | Show xmlagent logging configuration                |
| server        | xml agent server                                   |
| logging       | Show logging configuration and contents of logfile |
| configuration | Show facility logging configuration                |

## Command Mode

- /exec

## show xml server status

```
show xml server status [ __readonly__ { operational_status <o_status> } { maximum_sessions_configured
<max_session> } [ { TABLE_sessions <session_id> <user_name> <start_time> <sap_id> <timeout>
<time_remaining_to_timeout> <ip_addr> } ] ]
```

### Syntax Description

|                                    |  |
|------------------------------------|--|
| show                               | to display xml agent information         |
| xml                                | xml agent                                |
| server                             | xml agent server                         |
| status                             | display xml agent information            |
| <i>__readonly__</i>                | (Optional)                               |
| <i>operational_status</i>          | (Optional) run-time info about xml       |
| <i>o_status</i>                    | (Optional) operational status of the xml |
| <i>maximum_sessions_configured</i> | (Optional) the max session configured    |
| <i>max_session</i>                 | (Optional) max sessions number           |
| <i>TABLE_sessions</i>              | (Optional) all xml sessions              |
| <i>session_id</i>                  | (Optional) one xml session id            |
| <i>user_name</i>                   | (Optional) the xml session user name     |
| <i>start_time</i>                  | (Optional) the xml session start time    |
| <i>sap_id</i>                      | (Optional) the mts sap id                |
| <i>timeout</i>                     | (Optional) inactivity timeout value      |
| <i>time_remaining_to_timeout</i>   | (Optional) time remaining to timeout     |
| <i>ip_addr</i>                     | (Optional) ip address of the session     |

### Command Mode

- /exec

show xml server status



## PART II

# XML Support

- [Commands with XML/JSON Support, on page 2823](#)





## Commands with XML/JSON Support

---

- [XML Support for Show Commands, on page 2824](#)

# XML Support for Show Commands

Table 1:

| Show Commands                                      | XML Support |
|--|-------------|
| show aaa accounting                                | yes         |
| show aaa authentication                            | yes         |
| show aaa authentication login                      | yes         |
| show aaa authentication login ascii-authentication | yes         |
| show aaa authentication login error-enable         | yes         |
| show aaa authentication login invalid-username-log | yes         |
| show aaa authorization                             | yes         |
| show aaa bypass-user                               | yes         |
| show aaa client radius statistics                  | yes         |
| show aaa groups                                    | yes         |
| show aaa local user blocked                        | yes         |
| show aaa server radius statistics                  | yes         |
| show aaa user default-role                         | yes         |
| show access-list                                   | yes         |
| show access-list database                          | yes         |
| show access-lists                                  | yes         |
| show accounting log                                | yes         |
| show accounting log all                            | yes         |
| show accounting log last-index                     | yes         |
| show accounting log nvram                          | yes         |
| show accounting log nvram last-index               | yes         |
| show accounting log nvram start-seqnum             | yes         |
| show accounting log start-seqnum                   | yes         |
| show acl status                                    | yes         |
| show amt process                                   | yes         |



| <b>Show Commands</b>               | <b>XML Support</b> |
|------------------------------------|--------------------|
| show amt vrf all                   | yes                |
| show archive log config            | yes                |
| show arp access-lists              | yes                |
| show background                    | yes                |
| show banner exec                   | yes                |
| show banner motd                   | yes                |
| show bash-shell                    | yes                |
| show bfd clients                   | yes                |
| show bfd neighbors                 | yes                |
| show bgp                           | yes                |
| show bgp bmp server                | yes                |
| show bgp community                 | yes                |
| show bgp convergence               | yes                |
| show bgp dampening dampened        | yes                |
| show bgp dampening flap-statistics | yes                |
| show bgp dampening parameters      | yes                |
| show bgp evi                       | yes                |
| show bgp extcommunity              | yes                |
| show bgp l3vpn                     | yes                |
| show bgp neighbors                 | yes                |
| show bgp neighbors commands        | yes                |
| show bgp neighbors flap-statistics | yes                |
| show bgp neighbors paths           | yes                |
| show bgp paths                     | yes                |
| show bgp peer                      | yes                |
| show bgp peer-template             | yes                |
| show bgp prefix-list               | yes                |
| show bgp private attr              | no                 |

| Show Commands   | XML Support |
|---|-------------|
| show bgp private debug history                                  | no          |
| show bgp process  | yes         |
| show bgp received-paths   | yes         |
| show bgp regexp   | yes         |
| show bgp self-originated  | yes         |
| show bgp sessions   | yes         |
| show bgp statistics   | yes         |
| show bgp summary  | yes         |
| show boot   | yes         |
| show boot auto-copy   | yes         |
| show boot auto-copy list  | yes         |
| show boot current   | yes         |
| show boot mode  | yes         |
| show boot order   | yes         |
| show boot timings   | no          |
| show boot variables   | yes         |
| show callhome   | yes         |
| show callhome destination-profile                               | yes         |
| show callhome destination-profile profile                       | yes         |
| show callhome destination-profile profile CiscoTAC-1            | yes         |
| show callhome destination-profile profile full-txt-destination  | yes         |
| show callhome destination-profile profile short-txt-destination | yes         |
| show callhome transport   | yes         |
| show callhome transport-email                                   | yes         |
| show callhome user-def-cmds                                     | yes         |
| show catena   | yes         |
| show catena analytics   | yes         |
| show cdp  | yes         |

| Show Commands                     | XML Support |
|-----------------------------------|-------------|
| show cdp all                      | yes         |
| show cdp global                   | yes         |
| show cdp neighbors                | yes         |
| show cdp neighbors detail         | yes         |
| show cdp traffic interface2       | yes         |
| show cdp traffic interface2 all   | yes         |
| show cfs application              | yes         |
| show cfs lock                     | yes         |
| show cfs merge status             | yes         |
| show cfs peers                    | yes         |
| show cfs regions                  | yes         |
| show cfs status                   | yes         |
| show checkpoint                   | yes         |
| show checkpoint summary           | yes         |
| show class-map                    | yes         |
| show class-map type control-plane | yes         |
| show class-map type network-qos   | yes         |
| show cli alias                    | yes         |
| show cli dynamic integers         | yes         |
| show cli dynamic strings          | yes         |
| show cli dynamic-cmd              | no          |
| show cli history                  | no          |
| show cli interface table          | no          |
| show cli list                     | no          |
| show cli syntax                   | no          |
| show cli variables                | yes         |
| show clock                        | yes         |
| show config-profile               | yes         |

| Show Commands   | XML Support |
|---|-------------|
| show config-profile applied                                       | yes         |
| show config-replace log exec                                      | yes         |
| show config-replace status  | yes         |
| show config-template  | yes         |
| show configuration session  | yes         |
| show configuration session global-info                            | yes         |
| show configuration session status                                 | yes         |
| show configuration session summary                                | yes         |
| show configuration session vsh                                    | yes         |
| show consistency-checker copp                                     | no          |
| show consistency-checker dme interfaces                           | no          |
| show consistency-checker egress-xlate private-vlan                | no          |
| show consistency-checker forwarding ipv6                          | yes         |
| show consistency-checker forwarding show forwarding inconsistency | yes         |
| show consistency-checker forwarding single-route ipv4 vrf         | no          |
| show consistency-checker kim                                      | no          |
| show consistency-checker kim interface                            | no          |
| show consistency-checker l2 multicast group source vlan           | no          |
| show consistency-checker l2-tahoe module                          | no          |
| show consistency-checker l2-tahoe switchport interface            | no          |
| show consistency-checker l3 multicast source vrf                  | no          |
| show consistency-checker l3-interface module                      | no          |
| show consistency-checker link-state fabric-ieth                   | no          |
| show consistency-checker link-state module                        | no          |
| show consistency-checker membership port-channels                 | no          |
| show consistency-checker membership vlan                          | no          |
| show consistency-checker port-state                               | no          |
| show consistency-checker port-state fabric-ieth                   | no          |

| Show Commands                                 | XML Support |
|---|-------------|
| show consistency-checker racl module          | no          |
| show consistency-checker racl port-channels   | no          |
| show consistency-checker racl svi interface   | no          |
| show consistency-checker stp-state vlan       | no          |
| show consistency-checker vxlan config-check   | no          |
| show consistency-checker vxlan pv             | no          |
| show consistency-checker vxlan vlan           | no          |
| show controller accounting log                | no          |
| show copp diff profile profile2               | no          |
| show copp profile                             | yes         |
| show copp status                              | yes         |
| show copyright                                | yes         |
| show cores                                    | yes         |
| show crypto ca certificates                   | yes         |
| show crypto ca certstore                      | yes         |
| show crypto ca crl                            | yes         |
| show crypto ca remote-certstore               | yes         |
| show crypto ca trustpoints                    | yes         |
| show crypto ca trustpool                      | yes         |
| show crypto ca trustpool last download status | yes         |
| show crypto ca trustpool policy               | yes         |
| show crypto certificatemap                    | yes         |
| show crypto key mypubkey rsa                  | yes         |
| show crypto ssh-auth-map                      | yes         |
| show cts                                      | yes         |
| show current                                  | no          |
| show diagnostic bootup level                  | yes         |
| show diagnostic content module                | yes         |

| Show Commands                                  | XML Support |
|--|-------------|
| show diagnostic description module test all    | yes         |
| show diagnostic events                         | yes         |
| show diagnostic ondemand setting               | yes         |
| show diagnostic result module                  | yes         |
| show diagnostic result module all              | yes         |
| show diagnostic simulation module              | yes         |
| show diagnostic status module                  | yes         |
| show diff rollback-patch                       | yes         |
| show dot1q-tunnel                              | yes         |
| show dot1q-tunnel interface                    | yes         |
| show dot1x                                     | yes         |
| show dot1x all                                 | yes         |
| show dot1x all details                         | yes         |
| show dot1x all statistics                      | yes         |
| show dot1x all summary                         | yes         |
| show dot1x interface                           | yes         |
| show dot1x interface client statistics         | yes         |
| show dot1x interface client statistics address | yes         |
| show ecp                                       | yes         |
| show elam report                               | no          |
| show email                                     | yes         |
| show encryption service stat                   | yes         |
| show environment                               | yes         |
| show errdisable detect                         | yes         |
| show errdisable flap                           | no          |
| show evb                                       | yes         |
| show evb hosts                                 | yes         |
| show evb vsi                                   | yes         |

| Show Commands                        | XML Support |
|--------------------------------------|-------------|
| show event manager environment       | yes         |
| show event manager event-types       | yes         |
| show event manager events action-log | yes         |
| show event manager history events    | yes         |
| show event manager policy-state      | yes         |
| show event manager script system     | yes         |
| show event manager system-policy     | yes         |
| show fabric database dci             | yes         |
| show fabric database host            | yes         |
| show fabric database host statistics | yes         |
| show fabric database host summary    | yes         |
| show fabric database profile-map     | yes         |
| show fabric database static-host     | yes         |
| show fabric database statistics      | yes         |
| show fabric forwarding host-db       | yes         |
| show fabric forwarding ip local      | yes         |
| show fabric forwarding ipv6 local    | yes         |
| show fabric multicast globals        | yes         |
| show fabric multicast ipv4 l2 vni    | yes         |
| show fabric multicast statistics     | no          |
| show fabric multicast vrf            | yes         |
| show fc2 bind                        | yes         |
| show fc2 classf                      | yes         |
| show fc2 exchange                    | yes         |
| show fc2 exchresp                    | yes         |
| show fc2 flogi                       | yes         |
| show fc2 nport                       | yes         |
| show fc2 plogi                       | yes         |

| Show Commands                   | XML Support |
|---------------------------------|-------------|
| show fc2 plogi_pwwn             | yes         |
| show fc2 port brief             | yes         |
| show fc2 port drops             | yes         |
| show fc2 port state             | yes         |
| show fc2 socket                 | yes         |
| show fc2 sockexch               | yes         |
| show fc2 socknotify             | yes         |
| show fc2 socknport              | yes         |
| show fc2 vsan                   | yes         |
| show fedroplacency              | yes         |
| show fcoe                       | yes         |
| show fcoe database              | yes         |
| show fcoe-npv issu-impact       | yes         |
| show fctimer                    | yes         |
| show fctimer D_S_TOV            | yes         |
| show fctimer E_D_TOV            | yes         |
| show fctimer F_S_TOV            | yes         |
| show fctimer last action status | yes         |
| show fctimer pending            | yes         |
| show fctimer pending-diff       | yes         |
| show fctimer R_A_TOV            | yes         |
| show fctimer session status     | yes         |
| show fctimer status             | yes         |
| show fctimer vsan               | yes         |
| show feature                    | yes         |
| show feature-set                | yes         |
| show feature-set services       | yes         |
| show fhrp                       | yes         |



| Show Commands   | XML Support |
|---|-------------|
| show fhrp verbose   | yes         |
| show file   | yes         |
| show fips status  | yes         |
| show flow cache   | yes         |
| show flow exporter  | yes         |
| show flow filter  | yes         |
| show flow interface   | yes         |
| show flow monitor   | yes         |
| show flow profile   | yes         |
| show flow record  | yes         |
| show flow rtp   | yes         |
| show flow rtp timeout   | yes         |
| show flow system  | yes         |
| show flow timeout   | yes         |
| show flow tracer  | yes         |
| show forwarding   | no          |
| show forwarding adjacency   | yes         |
| show forwarding distribution clients                                    | yes         |
| show forwarding distribution fib-state                                  | yes         |
| show forwarding distribution ip igmp snooping                           | yes         |
| show forwarding distribution ipv6 multicast route                       | yes         |
| show forwarding distribution l2 multicast                               | yes         |
| show forwarding distribution multicast                                  | yes         |
| show forwarding distribution multicast client                           | yes         |
| show forwarding distribution multicast client-ack-db                    | yes         |
| show forwarding distribution multicast download                         | no          |
| show forwarding distribution multicast mfib                             | yes         |
| show forwarding distribution multicast outgoing-interface-list L2_PRIME | yes         |

| Show Commands  | XML Support |
|--|-------------|
| show forwarding distribution multicast resp-ack-timer-msgs | no          |
| show forwarding distribution multicast route               | yes         |
| show forwarding distribution multicast vxlan dsg-db        | no          |
| show forwarding distribution nve overlay-vlan              | yes         |
| show forwarding distribution peer-id                       | yes         |
| show forwarding distribution trace                         | no          |
| show forwarding ecmp                                       | yes         |
| show forwarding ecmp recursive                             | yes         |
| show forwarding interfaces                                 | yes         |
| show forwarding ipv6 adjacency                             | yes         |
| show forwarding ipv6 inconsistency                         | yes         |
| show forwarding ipv6 multicast route                       | yes         |
| show forwarding kvfib cache on                             | no          |
| show forwarding l2 multicast                               | yes         |
| show forwarding l2vpn label vpls                           | yes         |
| show forwarding l2vpn label xconnect                       | yes         |
| show forwarding l2vpn vlan                                 | yes         |
| show forwarding mpls                                       | yes         |
| show forwarding mpls drop-stats                            | yes         |
| show forwarding mpls ecmp                                  | yes         |
| show forwarding mpls eompls                                | yes         |
| show forwarding mpls eompls ir                             | yes         |
| show forwarding mpls srte module                           | yes         |
| show forwarding mpls summary                               | yes         |
| show forwarding multicast outgoing-interface-list          | yes         |
| show forwarding multicast route                            | yes         |
| show forwarding multicast-sr loopback interface            | yes         |
| show forwarding nve l2 ingress-replication-peers           | yes         |

| Show Commands                                    | XML Support |
|--|-------------|
| show forwarding nve l3 adjacency tunnel          | yes         |
| show forwarding nve l3 adjacency v6-tunnel       | yes         |
| show forwarding nve l3 ecmp                      | yes         |
| show forwarding nve l3 peers                     | yes         |
| show forwarding nve underlay-interfaces          | yes         |
| show forwarding otv                              | yes         |
| show forwarding security group-tag               | yes         |
| show forwarding security mac                     | yes         |
| show forwarding trace                            | yes         |
| show forwarding trace profile                    | no          |
| show forwarding trace profile funcstats          | yes         |
| show fte event                                   | yes         |
| show fte exporter                                | yes         |
| show fte monitor                                 | yes         |
| show fte record                                  | yes         |
| show guestshell                                  | yes         |
| show hardware                                    | yes         |
| show hardware access-list lou resource threshold | yes         |
| show hardware access-list resource pooling       | yes         |
| show hardware capacity                           | no          |
| show hardware capacity eobc                      | yes         |
| show hardware capacity forwarding                | no          |
| show hardware capacity interface                 | yes         |
| show hardware capacity module                    | yes         |
| show hardware capacity power                     | yes         |
| show hardware fabricpath mac-learning module     | yes         |
| show hardware feature-capability                 | yes         |
| show hardware flow aging                         | no          |

| Show Commands                                      | XML Support |
|--|-------------|
| show hardware flow entry address type              | no          |
| show hardware flow etrap                           | yes         |
| show hardware flow ip                              | no          |
| show hardware flow ipv6                            | no          |
| show hardware flow l2                              | no          |
| show hardware flow mpls                            | no          |
| show hardware flow sampler                         | no          |
| show hardware flow utilization                     | no          |
| show hardware forwarding interface statistics mode | yes         |
| show hardware forwarding memory health detail      | yes         |
| show hardware forwarding memory health summary     | yes         |
| show hardware ip verify                            | yes         |
| show hardware profile packet-drop                  | yes         |
| show hardware profile status                       | yes         |
| show hardware profile tcam region                  | yes         |
| show hardware qos eoq stats-class                  | yes         |
| show hardware qos include ipg                      | yes         |
| show hardware qos ing-pg-hdrm-reserve              | yes         |
| show hardware qos ing-pg-no-min                    | yes         |
| show hardware qos ing-pg-share                     | yes         |
| show hardware qos min-buffer                       | yes         |
| show hardware qos ns-buffer-profile                | yes         |
| show hardware rate-limiter                         | yes         |
| show hardware rate-limiter span-egress             | yes         |
| show hostname                                      | yes         |
| show hosts   | yes         |
| show hsrp  | yes         |
| show hsrp anycast                                  | no          |

| Show Commands                                | XML Support |
|--|-------------|
| show hsrp anycast interface vlan             | no          |
| show hsrp anycast remote-db                  | no          |
| show hsrp anycast summary                    | no          |
| show hsrp bfd-sessions                       | yes         |
| show hsrp delay                              | yes         |
| show hsrp mgo                                | yes         |
| show hsrp summary                            | yes         |
| show icam entries acl module inst            | yes         |
| show icam health                             | yes         |
| show icam itd                                | yes         |
| show icam prediction entries acl module inst | yes         |
| show icam prediction scale                   | yes         |
| show icam scale                              | yes         |
| show ieth-header-decode                      | no          |
| show inband-telemetry exporter               | yes         |
| show inband-telemetry flow-profile           | yes         |
| show inband-telemetry monitor                | yes         |
| show inband-telemetry queue-profile          | yes         |
| show inband-telemetry record                 | yes         |
| show inband-telemetry sessions               | yes         |
| show inband-telemetry watchlist              | yes         |
| show incompatibility system                  | yes         |
| show incompatibility-all system              | yes         |
| show install                                 | yes         |
| show install all failed-standby              | yes         |
| show install all failure-reason              | yes         |
| show install all impact                      | no          |
| show install all impact epld                 | yes         |

| Show Commands                           | XML Support |
|---|-------------|
| show install all status                 | no          |
| show install all time-stats             | no          |
| show install epld status                | yes         |
| show install log                        | yes         |
| show install mode                       | yes         |
| show install packages                   | yes         |
| show install patches                    | yes         |
| show interface                          | yes         |
| show interface aggregate-counters       | yes         |
| show interface bbcredit                 | yes         |
| show interface brief                    | yes         |
| show interface cable-diagnostics-tdr    | yes         |
| show interface capabilities             | yes         |
| show interface counters                 | yes         |
| show interface counters brief           | yes         |
| show interface counters detailed        | yes         |
| show interface counters detailed all    | yes         |
| show interface counters detailed all    | no          |
| show interface counters detailed all    | yes         |
| show interface counters detailed cached | yes         |
| show interface counters details         | yes         |
| show interface counters errors          | yes         |
| show interface counters errors          | no          |
| show interface counters snmp            | yes         |
| show interface counters storm-control   | yes         |
| show interface counters table           | yes         |
| show interface counters table verbose   | yes         |
| show interface counters trunk           | yes         |

| Show Commands                         | XML Support |
|---------------------------------------|-------------|
| show interface debounce               | yes         |
| show interface description            | yes         |
| show interface detail-counters        | yes         |
| show interface fcoe                   | yes         |
| show interface fec                    | yes         |
| show interface flowcontrol            | yes         |
| show interface hardware-mappings      | no          |
| show interface mac-address            | yes         |
| show interface priority-flow-control  | yes         |
| show interface private-vlan mapping   | yes         |
| show interface pruning                | yes         |
| show interface snmp-ifindex           | yes         |
| show interface status                 | yes         |
| show interface status err-disabled    | yes         |
| show interface status err-vlans       | yes         |
| show interface switchport             | yes         |
| show interface switchport backup      | yes         |
| show interface transceiver            | yes         |
| show interface transceiver fex-fabric | yes         |
| show interface trunk                  | yes         |
| show interface trunk vsan             | yes         |
| show interface untagged-cos           | yes         |
| show interface vlan mapping           | yes         |
| show inventory                        | yes         |
| show ip adjacency                     | yes         |
| show ip amt relay                     | yes         |
| show ip amt route                     | yes         |
| show ip amt tunnel                    | yes         |

| Show Commands                                  | XML Support |
|--|-------------|
| show ip arp                                    | yes         |
| show ip arp anycast topo-info                  | yes         |
| show ip arp client                             | yes         |
| show ip arp controller-statistics              | yes         |
| show ip arp esi                                | yes         |
| show ip arp inspection                         | yes         |
| show ip arp inspection interfaces              | yes         |
| show ip arp inspection log                     | yes         |
| show ip arp inspection statistics              | yes         |
| show ip arp inspection vlan                    | yes         |
| show ip arp l2 statistics interface            | yes         |
| show ip arp multihoming-statistics             | yes         |
| show ip arp off-list                           | yes         |
| show ip arp open-flow error-statistics         | yes         |
| show ip arp statistics                         | yes         |
| show ip arp suppression topo-info              | yes         |
| show ip arp suppression-cache                  | yes         |
| show ip arp tunnel-statistics                  | yes         |
| show ip arp vpc-statistics                     | yes         |
| show ip as-path-access-list                    | yes         |
| show ip client                                 | yes         |
| show ip community-list                         | yes         |
| show ip dhcp global statistics                 | yes         |
| show ip dhcp option82 suboption info interface | yes         |
| show ip dhcp relay                             | yes         |
| show ip dhcp relay address                     | yes         |
| show ip dhcp relay information trusted-sources | yes         |
| show ip dhcp relay statistics                  | yes         |



| Show Commands                           | XML Support |
|---|-------------|
| show ip dhcp snooping                   | yes         |
| show ip dhcp snooping binding           | no          |
| show ip dhcp snooping statistics        | no          |
| show ip dhcp status                     | yes         |
| show ip dns source-interface            | yes         |
| show ip dns source-interface vrf all    | yes         |
| show ip eigrp                           | yes         |
| show ip eigrp accounting                | yes         |
| show ip eigrp interfaces                | yes         |
| show ip eigrp traffic                   | yes         |
| show ip extcommunity-list               | yes         |
| show ip fib distribution                | no          |
| show ip fib distribution clients        | yes         |
| show ip fib distribution mroute         | yes         |
| show ip fib distribution multicast      | yes         |
| show ip fib distribution state          | yes         |
| show ip fib mroute                      | yes         |
| show ip fib route                       | yes         |
| show ip ftp source-interface            | yes         |
| show ip ftp source-interface vrf all    | yes         |
| show ip http source-interface           | yes         |
| show ip http source-interface vrf all   | yes         |
| show ip igmp groups                     | yes         |
| show ip igmp interface                  | yes         |
| show ip igmp local-groups               | yes         |
| show ip igmp policy statistics reports  | yes         |
| show ip igmp snooping                   | yes         |
| show ip igmp snooping explicit-tracking | yes         |

| Show Commands                           | XML Support |
|---|-------------|
| show ip igmp snooping filter details    | yes         |
| show ip igmp snooping groups            | yes         |
| show ip igmp snooping lookup-mode       | yes         |
| show ip igmp snooping mac-oif           | yes         |
| show ip igmp snooping mrouter           | yes         |
| show ip igmp snooping pw vlan brief     | yes         |
| show ip igmp snooping querier           | yes         |
| show ip igmp snooping report statistics | yes         |
| show ip igmp snooping statistics        | yes         |
| show ip igmp vrf all                    | yes         |
| show ip interface                       | yes         |
| show ip load-sharing                    | yes         |
| show ip local policy                    | yes         |
| show ip logging                         | yes         |
| show ip mbgp                            | no          |
| show ip mbgp community                  | no          |
| show ip mbgp dampening                  | no          |
| show ip mbgp extcommunity               | no          |
| show ip mbgp flap-statistics            | no          |
| show ip mbgp neighbors                  | no          |
| show ip mbgp nexthop                    | no          |
| show ip mbgp nexthop-database           | no          |
| show ip mbgp prefix-list                | no          |
| show ip mbgp received-paths             | no          |
| show ip mroute                          | yes         |
| show ip msdp count                      | yes         |
| show ip msdp mesh-group                 | yes         |
| show ip msdp peer                       | yes         |

| Show Commands                                 | XML Support |
|---|-------------|
| show ip msdp policy statistics sa-policy in   | yes         |
| show ip msdp rpf                              | yes         |
| show ip msdp sa                               | yes         |
| show ip msdp sources                          | yes         |
| show ip msdp statistics                       | yes         |
| show ip msdp summary                          | yes         |
| show ip nat max                               | yes         |
| show ip nat statistics                        | yes         |
| show ip nat timeout                           | yes         |
| show ip nat translations                      | yes         |
| show ip nat-alias                             | yes         |
| show ip ospf                                  | yes         |
| show ip ospf border-routers                   | yes         |
| show ip ospf database                         | yes         |
| show ip ospf database database-summary        | yes         |
| show ip ospf database detail                  | yes         |
| show ip ospf interface                        | yes         |
| show ip ospf interface brief                  | yes         |
| show ip ospf lsa-content-changed-list         | yes         |
| show ip ospf neighbors                        | yes         |
| show ip ospf neighbors detail                 | yes         |
| show ip ospf neighbors summary                | yes         |
| show ip ospf request-list                     | yes         |
| show ip ospf retransmission-list              | yes         |
| show ip ospf route                            | yes         |
| show ip ospf route summary                    | yes         |
| show ip ospf segment-routing adj-sid-database | yes         |
| show ip ospf segment-routing global-block     | yes         |

| Show Commands                             | XML Support |
|---|-------------|
| show ip ospf segment-routing sid-database | yes         |
| show ip ospf sham-links                   | yes         |
| show ip ospf sham-links brief             | yes         |
| show ip ospf statistics                   | yes         |
| show ip ospf summary-address              | yes         |
| show ip ospf traffic                      | yes         |
| show ip ospf virtual-links                | yes         |
| show ip ospf virtual-links brief          | yes         |
| show ip pim config-sanity                 | yes         |
| show ip pim df                            | yes         |
| show ip pim fabric info                   | yes         |
| show ip pim fabric legacy-vlans           | yes         |
| show ip pim group-range                   | yes         |
| show ip pim host-proxy                    | yes         |
| show ip pim interface                     | yes         |
| show ip pim mdt                           | yes         |
| show ip pim mdt bgp                       | yes         |
| show ip pim mdt history interval          | yes         |
| show ip pim mdt receive                   | yes         |
| show ip pim mdt send                      | yes         |
| show ip pim neighbor                      | yes         |
| show ip pim oif-list                      | yes         |
| show ip pim policy statistics             | yes         |
| show ip pim policy statistics jp          | yes         |
| show ip pim route                         | yes         |
| show ip pim rp                            | yes         |
| show ip pim rp-hash                       | yes         |
| show ip pim statistics                    | yes         |

| Show Commands  | XML Support |
|--|-------------|
| show ip pim vrf                                      | yes         |
| show ip ping source-interface                        | yes         |
| show ip ping source-interface vrf all                | yes         |
| show ip policy                                       | yes         |
| show ip prefix-list                                  | yes         |
| show ip process                                      | yes         |
| show ip rip  | yes         |
| show ip rip interface                                | yes         |
| show ip rip neighbor                                 | yes         |
| show ip rip policy statistics redistribute           | yes         |
| show ip rip route                                    | yes         |
| show ip rip statistics                               | yes         |
| show ip route  | yes         |
| show ip sla application                              | yes         |
| show ip sla configuration                            | yes         |
| show ip sla enhanced-history collection-statistics   | yes         |
| show ip sla enhanced-history distribution-statistics | yes         |
| show ip sla group schedule                           | yes         |
| show ip sla history                                  | yes         |
| show ip sla reaction-configuration                   | yes         |
| show ip sla reaction-trigger                         | yes         |
| show ip sla responder                                | yes         |
| show ip sla statistics                               | yes         |
| show ip sla twamp connection detail                  | yes         |
| show ip sla twamp connection requests                | yes         |
| show ip sla twamp session                            | yes         |
| show ip sla twamp standards                          | yes         |
| show ip ssh source-interface                         | yes         |

| Show Commands                               | XML Support |
|---|-------------|
| show ip ssh source-interface vrf all        | yes         |
| show ip static-route                        | yes         |
| show ip tcp mss                             | yes         |
| show ip telnet source-interface             | yes         |
| show ip telnet source-interface vrf all     | yes         |
| show ip tftp source-interface               | yes         |
| show ip tftp source-interface vrf all       | yes         |
| show ip traceroute source-interface         | yes         |
| show ip traceroute source-interface vrf all | yes         |
| show ip traffic                             | yes         |
| show ip udp relay                           | yes         |
| show ip udp relay interface                 | yes         |
| show ip udp relay object-group              | yes         |
| show ip verify source                       | yes         |
| show ipv6 adjacency                         | yes         |
| show ipv6 adjacency aggregate-prefix        | yes         |
| show ipv6 adjacency subnet-prefix           | yes         |
| show ipv6 amt tunnel                        | yes         |
| show ipv6 bgp                               | no          |
| show ipv6 bgp community                     | no          |
| show ipv6 bgp dampening                     | no          |
| show ipv6 bgp extcommunity                  | no          |
| show ipv6 bgp flap-statistics               | no          |
| show ipv6 bgp neighbors                     | no          |
| show ipv6 bgp nexthop                       | no          |
| show ipv6 bgp nexthop-database              | no          |
| show ipv6 bgp received-paths                | no          |
| show ipv6 bgp regexp                        | no          |

| Show Commands                       | XML Support |
|-------------------------------------|-------------|
| show ipv6 bgp summary               | no          |
| show ipv6 client                    | yes         |
| show ipv6 dhcp guard policy         | yes         |
| show ipv6 dhcp relay                | yes         |
| show ipv6 dhcp relay statistics     | yes         |
| show ipv6 fragments                 | yes         |
| show ipv6 icmp                      | yes         |
| show ipv6 icmp global traffic       | yes         |
| show ipv6 icmp interface            | yes         |
| show ipv6 icmp l2 statistics        | yes         |
| show ipv6 icmp nd local-proxy stats | yes         |
| show ipv6 icmp off-list             | yes         |
| show ipv6 icmp vaddr                | yes         |
| show ipv6 icmp vpc-statistics       | yes         |
| show ipv6 interface                 | yes         |
| show ipv6 local policy              | yes         |
| show ipv6 mld groups                | yes         |
| show ipv6 mld local-groups          | yes         |
| show ipv6 mroute                    | yes         |
| show ipv6 mtu                       | yes         |
| show ipv6 nd ra dns search-list     | yes         |
| show ipv6 nd ra dns server          | yes         |
| show ipv6 nd rguard policy          | yes         |
| show ipv6 neighbor binding          | no          |
| show ipv6 neighbor binding mac      | no          |
| show ipv6 neighbor static           | yes         |
| show ipv6 pim df                    | yes         |
| show ipv6 pim fabric info           | yes         |

| Show Commands                                | XML Support |
|--|-------------|
| show ipv6 pim fabric legacy-vlans            | yes         |
| show ipv6 pim group-range                    | yes         |
| show ipv6 pim interface                      | yes         |
| show ipv6 pim neighbor                       | yes         |
| show ipv6 pim oif-list                       | yes         |
| show ipv6 pim policy statistics jp           | yes         |
| show ipv6 pim route                          | yes         |
| show ipv6 pim rp                             | yes         |
| show ipv6 pim rp-hash                        | yes         |
| show ipv6 pim statistics                     | yes         |
| show ipv6 pim vrf                            | yes         |
| show ipv6 policy                             | yes         |
| show ipv6 prefix-list                        | yes         |
| show ipv6 process                            | yes         |
| show ipv6 rguard statistics                  | yes         |
| show ipv6 rip policy statistics redistribute | yes         |
| show ipv6 route                              | yes         |
| show ipv6 routers                            | yes         |
| show ipv6 snooping capture-policy            | yes         |
| show ipv6 snooping counters vlan             | yes         |
| show ipv6 snooping events                    | yes         |
| show ipv6 snooping features                  | yes         |
| show ipv6 snooping messages                  | yes         |
| show ipv6 snooping policies                  | yes         |
| show ipv6 snooping policy                    | yes         |
| show ipv6 snooping pss database              | yes         |
| show ipv6 static-route                       | yes         |
| show ipv6 traffic                            | yes         |



| Show Commands                         | XML Support |
|---------------------------------------|-------------|
| show isis                             | yes         |
| show isis adjacency                   | yes         |
| show isis csnp                        | yes         |
| show isis database                    | yes         |
| show isis distribute-ls               | yes         |
| show isis dynamic-flooding            | yes         |
| show isis interface                   | yes         |
| show isis ipv6 redistribute route     | yes         |
| show isis ipv6 route                  | yes         |
| show isis ipv6 summary-address        | yes         |
| show isis lslib                       | no          |
| show isis mesh-group                  | yes         |
| show isis redistribute route          | yes         |
| show isis route                       | yes         |
| show isis rrm                         | yes         |
| show isis segment-routing mapcache    | yes         |
| show isis segment-routing remote-srgb | yes         |
| show isis segment-routing sids        | yes         |
| show isis spf-log                     | yes         |
| show isis srm                         | yes         |
| show isis ssn                         | yes         |
| show isis statistics                  | yes         |
| show isis summary-address             | yes         |
| show isis topology                    | yes         |
| show isis traffic                     | yes         |
| show itd                              | yes         |
| show itd session device-group         | yes         |
| show itd statistics                   | yes         |

| Show Commands                          | XML Support |
|--|-------------|
| show itd vrf                           | yes         |
| show key chain                         | yes         |
| show key chain mode decrypt            | yes         |
| show keystore                          | yes         |
| show kim inconsistency                 | no          |
| show kubernetes containers             | no          |
| show l2 mroute                         | yes         |
| show l2 multicast ftag                 | yes         |
| show l2 multicast trees                | yes         |
| show l2 route                          | yes         |
| show l2fwder l2rib info                | no          |
| show l2fwder statistics                | no          |
| show l2rib clients                     | yes         |
| show l2rib producers                   | yes         |
| show l2rib registrations               | yes         |
| show l2route cmcast topology           | yes         |
| show l2route evpn ead all              | yes         |
| show l2route evpn ethernet-segment esi | yes         |
| show l2route evpn fl all               | yes         |
| show l2route evpn fl evi               | yes         |
| show l2route evpn imet all             | yes         |
| show l2route evpn imet evi             | yes         |
| show l2route evpn mac all              | yes         |
| show l2route evpn mac evi              | yes         |
| show l2route evpn mac-ip all           | yes         |
| show l2route evpn mac-ip evi           | yes         |
| show l2route evpn path-list all        | yes         |
| show l2route evpn startup-route all    | yes         |

| Show Commands                        | XML Support |
|--------------------------------------|-------------|
| show l2route evpn startup-route evi  | yes         |
| show l2route fl topology             | yes         |
| show l2route peerid                  | yes         |
| show l2route summary                 | yes         |
| show l2route topology                | yes         |
| show lacp counters                   | yes         |
| show lacp interface                  | yes         |
| show lacp issu-impact                | yes         |
| show lacp neighbor                   | yes         |
| show lacp port-channel               | yes         |
| show lacp system-identifier          | yes         |
| show lcmd stats interface            | no          |
| show ldap-search-map                 | yes         |
| show ldap-server                     | yes         |
| show ldap-server groups              | yes         |
| show ldap-server statistics          | yes         |
| show license                         | yes         |
| show license brief                   | yes         |
| show license default                 | yes         |
| show license feature package mapping | yes         |
| show license file                    | yes         |
| show license host-id                 | yes         |
| show license tech support            | no          |
| show license usage                   | yes         |
| show line                            | yes         |
| show line console                    | yes         |
| show line console connected          | yes         |
| show line console user-input-string  | yes         |

| Show Commands                      | XML Support |
|------------------------------------|-------------|
| show lldp all                      | yes         |
| show lldp dcba interface           | yes         |
| show lldp entry                    | yes         |
| show lldp interface                | yes         |
| show lldp neighbors                | yes         |
| show lldp neighbors detail         | yes         |
| show lldp neighbors system-detail  | yes         |
| show lldp portid-subtype           | yes         |
| show lldp timers                   | yes         |
| show lldp tlv-select               | yes         |
| show lldp traffic                  | yes         |
| show lldp traffic interface        | yes         |
| show lldp traffic interface all    | yes         |
| show locator-led status            | yes         |
| show logging                       | no          |
| show logging console               | no          |
| show logging dropcount             | no          |
| show logging info                  | yes         |
| show logging ip access-list cache  | yes         |
| show logging ip access-list status | yes         |
| show logging last                  | no          |
| show logging level                 | no          |
| show logging level                 | yes         |
| show logging level aaa             | no          |
| show logging level acllog          | no          |
| show logging level aclmgr          | no          |
| show logging level adbm            | no          |
| show logging level adjmgr          | no          |

| <b>Show Commands</b>                     | <b>XML Support</b> |
|--|--------------------|
| show logging level amt                   | no                 |
| show logging level arp                   | no                 |
| show logging level ascii-cfg             | no                 |
| show logging level assoc_mgr             | no                 |
| show logging level backup                | no                 |
| show logging level bfd                   | no                 |
| show logging level bgp                   | no                 |
| show logging level bloggerd              | no                 |
| show logging level bootvar               | no                 |
| show logging level callhome              | no                 |
| show logging level capability            | no                 |
| show logging level catena                | no                 |
| show logging level cdp                   | no                 |
| show logging level cert_enroll           | no                 |
| show logging level cfs                   | no                 |
| show logging level clis                  | no                 |
| show logging level clk_mgr               | no                 |
| show logging level confcheck             | no                 |
| show logging level copp                  | no                 |
| show logging level core                  | no                 |
| show logging level cts                   | no                 |
| show logging level dhcp_snoop            | no                 |
| show logging level diagnostic diagclient | no                 |
| show logging level diagnostic diagmgr    | no                 |
| show logging level dot1x                 | no                 |
| show logging level ecp                   | no                 |
| show logging level eigrp                 | no                 |
| show logging level eltm                  | no                 |

| Show Commands                           | XML Support |
|---|-------------|
| show logging level epp                  | no          |
| show logging level ethdstats            | no          |
| show logging level ethpm                | no          |
| show logging level evb                  | no          |
| show logging level evmc                 | no          |
| show logging level evmed                | no          |
| show logging level evms                 | no          |
| show logging level fabric forwarding    | no          |
| show logging level fabricpath isis      | no          |
| show logging level fabricpath switch-id | no          |
| show logging level fcoe_mgr             | no          |
| show logging level feature-mgr          | no          |
| show logging level fs-daemon            | no          |
| show logging level gpixm                | no          |
| show logging level hardware-telemetry   | no          |
| show logging level hsrp                 | no          |
| show logging level icam                 | no          |
| show logging level im                   | no          |
| show logging level imp                  | no          |
| show logging level interface-vlan       | no          |
| show logging level ip igmp              | no          |
| show logging level ip msdp              | no          |
| show logging level ip sla responder     | no          |
| show logging level ip sla sender        | no          |
| show logging level ip sla twamp-server  | no          |
| show logging level ipconf               | no          |
| show logging level ipfib                | no          |
| show logging level ipqos                | no          |

| Show Commands                       | XML Support |
|-------------------------------------|-------------|
| show logging level ipv6 icmp        | no          |
| show logging level iscm             | no          |
| show logging level isis             | no          |
| show logging level l2fm             | no          |
| show logging level l3vm             | no          |
| show logging level lacp             | no          |
| show logging level ldap             | no          |
| show logging level lim              | no          |
| show logging level lldp             | no          |
| show logging level m2rib            | no          |
| show logging level mfdm             | no          |
| show logging level mfw              | no          |
| show logging level mmode            | no          |
| show logging level module           | no          |
| show logging level monitor          | no          |
| show logging level mpls manager     | no          |
| show logging level mpls switching   | no          |
| show logging level mpls traffic-eng | no          |
| show logging level mvsh             | no          |
| show logging level nat              | no          |
| show logging level nbm              | no          |
| show logging level netstack         | no          |
| show logging level nfm              | no          |
| show logging level ngmvpn           | no          |
| show logging level ngoam            | no          |
| show logging level npv              | no          |
| show logging level ntp              | no          |
| show logging level nve              | no          |

| Show Commands                             | XML Support |
|---|-------------|
| show logging level nxsdk                  | no          |
| show logging level openflow               | no          |
| show logging level ospf                   | no          |
| show logging level ospfv3                 | no          |
| show logging level otv                    | no          |
| show logging level pfstat                 | no          |
| show logging level pim                    | no          |
| show logging level pixm                   | no          |
| show logging level pktmgr                 | no          |
| show logging level platform               | no          |
| show logging level plbm                   | no          |
| show logging level plcmgr                 | no          |
| show logging level pltfm_config           | no          |
| show logging level plugin                 | no          |
| show logging level poap                   | no          |
| show logging level poed                   | no          |
| show logging level port                   | no          |
| show logging level port-channel           | no          |
| show logging level port-profile           | no          |
| show logging level port-resources         | no          |
| show logging level port-security          | no          |
| show logging level private-vlan           | no          |
| show logging level ptp                    | no          |
| show logging level radius                 | no          |
| show logging level res_mgr                | no          |
| show logging level rip                    | no          |
| show logging level routing ipv6 multicast | no          |
| show logging level routing multicast      | no          |



| Show Commands                       | XML Support |
|-------------------------------------|-------------|
| show logging level rpm              | no          |
| show logging level rsvp             | no          |
| show logging level sal              | no          |
| show logging level san-port-channel | no          |
| show logging level scheduler        | no          |
| show logging level security         | no          |
| show logging level segment-routing  | no          |
| show logging level session-mgr      | no          |
| show logging level sflow            | no          |
| show logging level smartc           | no          |
| show logging level smm              | no          |
| show logging level snmpd            | no          |
| show logging level snmpmib_proc     | no          |
| show logging level spanning-tree    | no          |
| show logging level spm              | no          |
| show logging level stripcl          | no          |
| show logging level sysmgr           | no          |
| show logging level tacacs           | no          |
| show logging level telemetry        | no          |
| show logging level template_manager | no          |
| show logging level track            | no          |
| show logging level tunnel           | no          |
| show logging level u2rib            | no          |
| show logging level u6rib            | no          |
| show logging level uddl             | no          |
| show logging level ufdm             | no          |
| show logging level urib             | no          |
| show logging level vdc_mgr          | no          |

| Show Commands                      | XML Support |
|------------------------------------|-------------|
| show logging level virtual-service | no          |
| show logging level vlan_mgr        | no          |
| show logging level vmm             | no          |
| show logging level vmtracker       | no          |
| show logging level vpc             | no          |
| show logging level vrrp-cfg        | no          |
| show logging level vrrp-eng        | no          |
| show logging level vrrpv3          | no          |
| show logging level vsan            | no          |
| show logging level vshd            | no          |
| show logging level vtp             | no          |
| show logging level wwn             | no          |
| show logging level xbar            | no          |
| show logging logfile               | no          |
| show logging logfile duration      | no          |
| show logging logfile last-index    | no          |
| show logging logfile start-seqn    | no          |
| show logging logfile start-time    | no          |
| show logging loopback              | no          |
| show logging module                | no          |
| show logging monitor               | no          |
| show logging nvram                 | yes         |
| show logging onboard               | no          |
| show logging onboard kernel-trace  | no          |
| show logging origin-id             | no          |
| show logging pending               | no          |
| show logging pending-diff          | no          |
| show logging rate-limit            | no          |

| Show Commands                                | XML Support |
|--|-------------|
| show logging rfc-strict                      | no          |
| show logging server                          | yes         |
| show logging session status                  | no          |
| show logging source-interface                | no          |
| show logging status                          | no          |
| show logging timestamp                       | no          |
| show login on-failure log                    | yes         |
| show login on-successful log                 | yes         |
| show mac address-table                       | yes         |
| show mac address-table aging-time            | yes         |
| show mac address-table count                 | yes         |
| show mac address-table count es              | yes         |
| show mac address-table learning-mode         | yes         |
| show mac address-table loop-detect           | yes         |
| show mac address-table multicast             | yes         |
| show mac address-table notification mac-move | yes         |
| show mac scalar                              | yes         |
| show mac-list                                | yes         |
| show macsec mka                              | yes         |
| show macsec mka session                      | yes         |
| show macsec mka statistics                   | yes         |
| show macsec policy                           | yes         |
| show macsec secy statistics                  | yes         |
| show maintenance maint-delay                 | yes         |
| show maintenance on-reload reset-reasons     | yes         |
| show maintenance profile                     | yes         |
| show maintenance snapshot-delay              | yes         |
| show maintenance timeout                     | yes         |

| Show Commands                   | XML Support |
|---------------------------------|-------------|
| show module                     | yes         |
| show module bandwidth-fairness  | yes         |
| show module uptime              | yes         |
| show monitor                    | yes         |
| show mpls forwarding statistics | yes         |
| show mpls interfaces            | yes         |
| show mpls interfaces detail     | yes         |
| show mpls interfaces statistics | yes         |
| show mpls ip bindings           | yes         |
| show mpls ip bindings summary   | yes         |
| show mpls ip ttl                | yes         |
| show mpls label range           | yes         |
| show mpls load-sharing          | yes         |
| show mpls oam echo statistics   | yes         |
| show mpls static binding        | yes         |
| show mpls static trace          | no          |
| show mpls strip labels          | yes         |
| show mpls switching             | yes         |
| show mpls switching clients     | yes         |
| show mvpn bgp mdt               | yes         |
| show mvpn mdt encap             | yes         |
| show mvpn mdt route             | yes         |
| show nbm defaults               | yes         |
| show nbm flow-policy            | yes         |
| show nbm flows                  | yes         |
| show nbm flows static           | yes         |
| show nbm flows statistics       | yes         |
| show nbm flows summary          | yes         |

| Show Commands                         | XML Support |
|---------------------------------------|-------------|
| show nbm host-policy all              | yes         |
| show nbm host-policy applied receiver | yes         |
| show nbm host-policy applied sender   | yes         |
| show nbm interface bandwidth          | yes         |
| show ngoam interface statistics       | yes         |
| show ngoam loopback                   | yes         |
| show ngoam pathtrace                  | yes         |
| show ngoam probe                      | yes         |
| show ngoam traceroute statistics      | yes         |
| show ngoam xconnect session           | yes         |
| show npv external-interface-usage     | yes         |
| show npv flogi-table                  | yes         |
| show npv status                       | yes         |
| show npv traffic-map                  | yes         |
| show ntp access-groups                | yes         |
| show ntp authentication-keys          | yes         |
| show ntp authentication-status        | yes         |
| show ntp information                  | yes         |
| show ntp logging-status               | yes         |
| show ntp peer-status                  | yes         |
| show ntp peers                        | yes         |
| show ntp rts-update                   | yes         |
| show ntp session status               | yes         |
| show ntp source                       | yes         |
| show ntp source-interface             | yes         |
| show ntp statistics                   | yes         |
| show ntp status                       | yes         |
| show ntp trusted-keys                 | yes         |

| Show Commands                         | XML Support |
|---------------------------------------|-------------|
| show nve adjacency mpls               | yes         |
| show nve bfd neighbors                | yes         |
| show nve core-links                   | yes         |
| show nve ethernet-segment             | yes         |
| show nve evi                          | yes         |
| show nve interface                    | yes         |
| show nve mpls                         | yes         |
| show nve multisite dc-links           | yes         |
| show nve multisite fabric-links       | yes         |
| show nve peers                        | yes         |
| show nve peers interface counters     | yes         |
| show nve peers mpls                   | yes         |
| show nve peers vni interface counters | yes         |
| show nve replication-servers          | yes         |
| show nve vni                          | yes         |
| show nve vni counters                 | yes         |
| show nve vni ingress-replication      | yes         |
| show nve vni peer-vtep                | yes         |
| show nve vrf                          | yes         |
| show nve vxlan-params                 | yes         |
| show nxapi                            | yes         |
| show nxapi-server logs                | no          |
| show object-group                     | yes         |
| show openflow hardware capabilities   | no          |
| show openflow switch                  | yes         |
| show openflow switch flows            | no          |
| show ospfv3                           | yes         |
| show ospfv3 border-routers            | yes         |

| Show Commands                         | XML Support |
|---------------------------------------|-------------|
| show ospfv3 database                  | yes         |
| show ospfv3 database database-summary | yes         |
| show ospfv3 database detail           | yes         |
| show ospfv3 interface                 | yes         |
| show ospfv3 interface brief           | yes         |
| show ospfv3 neighbors                 | yes         |
| show ospfv3 neighbors detail          | yes         |
| show ospfv3 neighbors summary         | yes         |
| show ospfv3 request-list              | yes         |
| show ospfv3 retransmission-list       | yes         |
| show ospfv3 route                     | yes         |
| show ospfv3 route summary             | yes         |
| show ospfv3 statistics                | yes         |
| show ospfv3 summary-address           | yes         |
| show ospfv3 traffic                   | yes         |
| show ospfv3 virtual-links             | yes         |
| show ospfv3 virtual-links brief       | yes         |
| show otv                              | no          |
| show param-list                       | yes         |
| show password secure-mode             | yes         |
| show password strength-check          | yes         |
| show plb                              | yes         |
| show plb analytics                    | yes         |
| show plb vrf                          | yes         |
| show pmap-int                         | no          |
| show pmap-int-br interface br         | yes         |
| show pnp lease                        | no          |
| show pnp posix_pi configs             | no          |

| Show Commands  | XML Support |
|--|-------------|
| show pnp posix_pi tech-support   | no          |
| show pnp profiles  | no          |
| show pnp status  | no          |
| show pnp summary   | no          |
| show pnp version   | no          |
| show policy-map  | yes         |
| show policy-map interface control-plane                                  | yes         |
| show policy-map system   | yes         |
| show policy-map type control-plane                                       | yes         |
| show policy-map type network-qos   | yes         |
| show port naming   | no          |
| show port-channel capacity   | yes         |
| show port-channel compatibility-parameters                               | yes         |
| show port-channel database   | yes         |
| show port-channel fast-convergence                                       | yes         |
| show port-channel load-balance   | yes         |
| show port-channel load-balance forwarding-path interface                 | yes         |
| show port-channel load-balance forwarding-path1 interface src-interface  | yes         |
| show port-channel load-balance hardware forwarding-path interface source | yes         |
| show port-channel rbh-distribution                                       | yes         |
| show port-channel scale-fanout   | yes         |
| show port-channel summary  | yes         |
| show port-channel traffic  | yes         |
| show port-channel usage  | yes         |
| show port-license  | yes         |
| show port-profile  | yes         |
| show port-profile brief  | yes         |
| show port-profile expand-interface                                       | yes         |



| Show Commands                         | XML Support |
|---------------------------------------|-------------|
| show port-profile sync-status         | yes         |
| show port-profile usage               | yes         |
| show port-security                    | yes         |
| show port-security address            | yes         |
| show port-security address interface  | yes         |
| show port-security interface          | yes         |
| show port-security state              | yes         |
| show postcard-telemetry exporter      | yes         |
| show postcard-telemetry flow-profile  | yes         |
| show postcard-telemetry monitor       | yes         |
| show postcard-telemetry queue-profile | yes         |
| show postcard-telemetry sessions      | yes         |
| show postcard-telemetry watchlist     | yes         |
| show power inline                     | yes         |
| show power inline police              | yes         |
| show power inline priority            | yes         |
| show privilege                        | yes         |
| show processes                        | yes         |
| show processes cpu                    | yes         |
| show processes cpu history            | no          |
| show processes cpu history data       | yes         |
| show processes log                    | yes         |
| show processes log details            | yes         |
| show processes log pid                | yes         |
| show processes log vdc-all            | yes         |
| show processes memory                 | yes         |
| show processes memory physical        | yes         |
| show processes memory shared          | yes         |

| Show Commands                            | XML Support |
|--|-------------|
| show processes vdc                       | yes         |
| show processes vdc cpu                   | yes         |
| show processes vdc log                   | yes         |
| show processes vdc log details           | no          |
| show processes vdc log pid               | no          |
| show processes vdc memory                | yes         |
| show pss debug                           | no          |
| show ptp brief                           | yes         |
| show ptp clock                           | yes         |
| show ptp clock foreign-masters record    | yes         |
| show ptp corrections                     | yes         |
| show ptp counters interface              | yes         |
| show ptp packet-trace                    | yes         |
| show ptp parent                          | yes         |
| show ptp port interface                  | yes         |
| show ptp time-property                   | yes         |
| show qos dcbxp incompatibility interface | yes         |
| show qos dcbxp info                      | yes         |
| show qos dcbxp interface                 | yes         |
| show queuing                             | yes         |
| show queuing pfc-queue                   | yes         |
| show queuing pfc-queue snmp ifIndex      | yes         |
| show queuing tabular                     | yes         |
| show radius status                       | yes         |
| show radius-cfs                          | yes         |
| show radius-server                       | yes         |
| show radius-server directed-request      | yes         |
| show radius-server groups                | yes         |

| Show Commands                               | XML Support |
|---|-------------|
| show radius-server sorted                   | yes         |
| show radius-server statistics               | yes         |
| show redundancy status                      | yes         |
| show regexp                                 | no          |
| show reload                                 | yes         |
| show resource                               | yes         |
| show rmon                                   | yes         |
| show role                                   | yes         |
| show role feature                           | yes         |
| show role feature-group                     | yes         |
| show rollback log exec                      | yes         |
| show rollback status                        | yes         |
| show route-map                              | yes         |
| show route-map pbr-statistics               | yes         |
| show router-guard                           | yes         |
| show routing                                | yes         |
| show routing clients                        | yes         |
| show routing hash                           | yes         |
| show routing hidden-nh                      | yes         |
| show routing ipv6                           | yes         |
| show routing ipv6 clients                   | yes         |
| show routing ipv6 hash                      | yes         |
| show routing ipv6 hidden-nh                 | yes         |
| show routing ipv6 memory estimate           | yes         |
| show routing ipv6 memory statistics         | yes         |
| show routing ipv6 multicast                 | yes         |
| show routing ipv6 multicast clients         | yes         |
| show routing ipv6 multicast memory estimate | yes         |

| Show Commands                            | XML Support |
|--|-------------|
| show routing ipv6 nhlfe                  | yes         |
| show routing ipv6 recursive-next-hop     | yes         |
| show routing memory estimate             | yes         |
| show routing memory statistics           | yes         |
| show routing multicast clients           | yes         |
| show routing multicast mdt encapsulation | yes         |
| show routing multicast memory estimate   | yes         |
| show routing nhlfe                       | yes         |
| show routing recursive-next-hop          | yes         |
| show routing vxlan-hash peer-ip          | no          |
| show routing vxlan-hash peer-ipv6        | no          |
| show routing-context                     | yes         |
| show running-config                      | no          |
| show running-config aaa                  | no          |
| show running-config acllog               | no          |
| show running-config aclmgr               | no          |
| show running-config adjmgr               | no          |
| show running-config all                  | no          |
| show running-config arp                  | no          |
| show running-config assoc                | no          |
| show running-config backup               | no          |
| show running-config bfd                  | no          |
| show running-config bgp                  | no          |
| show running-config bloggerd             | no          |
| show running-config callhome             | no          |
| show running-config catena               | no          |
| show running-config cdp                  | no          |
| show running-config cert-enroll          | no          |

| Show Commands                           | XML Support |
|---|-------------|
| show running-config cfs                 | no          |
| show running-config clock_manager       | no          |
| show running-config config-profile      | no          |
| show running-config config-template     | no          |
| show running-config controller          | no          |
| show running-config copp                | no          |
| show running-config dhcp                | no          |
| show running-config diagnostic          | no          |
| show running-config diff                | no          |
| show running-config dot1x               | no          |
| show running-config ecp                 | no          |
| show running-config eem                 | no          |
| show running-config eigrp               | no          |
| show running-config eltm                | no          |
| show running-config evb                 | no          |
| show running-config exclude             | no          |
| show running-config expand-port-profile | no          |
| show running-config fabric forwarding   | no          |
| show running-config fabric multicast    | no          |
| show running-config fcoe_mgr            | no          |
| show running-config hardware-telemetry  | no          |
| show running-config hsrp                | no          |
| show running-config icam                | no          |
| show running-config icmpv6              | no          |
| show running-config igmp                | no          |
| show running-config imp                 | no          |
| show running-config interface           | no          |
| show running-config ip                  | no          |

| Show Commands                        | XML Support |
|--------------------------------------|-------------|
| show running-config ipqos            | no          |
| show running-config ipv6             | no          |
| show running-config isis             | no          |
| show running-config l3vm             | no          |
| show running-config ldap             | no          |
| show running-config license          | no          |
| show running-config lldp             | no          |
| show running-config macsec           | no          |
| show running-config mmode            | no          |
| show running-config monitor          | no          |
| show running-config mpls static      | no          |
| show running-config mpls strip       | no          |
| show running-config mpls traffic-eng | no          |
| show running-config msdp             | no          |
| show running-config nat              | no          |
| show running-config nbm              | no          |
| show running-config ngoam            | no          |
| show running-config ntp              | no          |
| show running-config nv overlay       | no          |
| show running-config nxsdk            | no          |
| show running-config openflow         | no          |
| show running-config ospf             | no          |
| show running-config ospfv3           | no          |
| show running-config otv              | no          |
| show running-config otv-isis         | no          |
| show running-config param-list       | no          |
| show running-config pim              | no          |
| show running-config pim6             | no          |

| <b>Show Commands</b>                       | <b>XML Support</b> |
|--|--------------------|
| show running-config plb-services           | no                 |
| show running-config poe                    | no                 |
| show running-config port-profile           | no                 |
| show running-config port-security          | no                 |
| show running-config ptp                    | no                 |
| show running-config radius                 | no                 |
| show running-config rip                    | no                 |
| show running-config routing ip multicast   | no                 |
| show running-config routing ipv6 multicast | no                 |
| show running-config rpm                    | no                 |
| show running-config rsvp                   | no                 |
| show running-config scheduler              | no                 |
| show running-config section                | no                 |
| show running-config security               | no                 |
| show running-config segment-routing        | no                 |
| show running-config services               | no                 |
| show running-config sflow                  | no                 |
| show running-config sla responder          | no                 |
| show running-config sla sender             | no                 |
| show running-config sla twamp-server       | no                 |
| show running-config smart-channel          | no                 |
| show running-config snmp                   | no                 |
| show running-config spanning-tree          | no                 |
| show running-config srte                   | no                 |
| show running-config switch                 | no                 |
| show running-config tacacs                 | no                 |
| show running-config telemetry              | no                 |
| show running-config track                  | no                 |

| Show Commands                                      | XML Support |
|--|-------------|
| show running-config udd                            | no          |
| show running-config vdc                            | no          |
| show running-config vdc-all                        | no          |
| show running-config virtual-service                | no          |
| show running-config vlan                           | no          |
| show running-config vmtracker                      | no          |
| show running-config vpc                            | no          |
| show running-config vrf                            | no          |
| show running-config vrf default                    | no          |
| show running-config vrrp                           | no          |
| show running-config vrrpv3                         | no          |
| show running-config vshd                           | no          |
| show running-config vtp                            | no          |
| show running-config wwnm                           | no          |
| show san-port-channel compatibility-parameters     | yes         |
| show san-port-channel consistency                  | yes         |
| show san-port-channel consistency detail           | yes         |
| show san-port-channel database                     | yes         |
| show san-port-channel summary                      | yes         |
| show san-port-channel usage                        | yes         |
| show scheduler config                              | yes         |
| show scheduler job                                 | yes         |
| show scheduler logfile                             | yes         |
| show scheduler schedule                            | yes         |
| show segment-routing                               | yes         |
| show segment-routing clients                       | yes         |
| show segment-routing ipv4 connected-prefix-sid-map | yes         |
| show segment-routing mpls                          | yes         |



| Show Commands   | XML Support |
|---|-------------|
| show segment-routing mpls clients                       | yes         |
| show segment-routing mpls ipv4 connected-prefix-sid-map | yes         |
| show sflow  | yes         |
| show sflow statistics                                   | yes         |
| show smart-channel                                      | yes         |
| show snapshots  | yes         |
| show snapshots compare                                  | yes         |
| show snapshots compare ipv4routes                       | yes         |
| show snapshots compare ipv6routes                       | yes         |
| show snapshots compare summary                          | yes         |
| show snapshots dump                                     | yes         |
| show snapshots sections                                 | yes         |
| show snmp   | yes         |
| show snmp community                                     | yes         |
| show snmp context                                       | yes         |
| show snmp engineID                                      | yes         |
| show snmp group   | yes         |
| show snmp host  | yes         |
| show snmp mib igmpCacheTable                            | yes         |
| show snmp mib igmpInterfaceTable                        | yes         |
| show snmp nms-statistics                                | yes         |
| show snmp oid-statistics                                | yes         |
| show snmp sessions                                      | yes         |
| show snmp source-interface                              | yes         |
| show snmp trap  | yes         |
| show snmp user  | yes         |
| show sockets client                                     | yes         |
| show sockets connection                                 | yes         |

| Show Commands                               | XML Support |
|---|-------------|
| show sockets local-port-range               | yes         |
| show sockets ns-port-kiosk                  | yes         |
| show sockets statistics                     | yes         |
| show sockets tcp keychain binding           | yes         |
| show spanning-tree                          | yes         |
| show spanning-tree blockedports             | yes         |
| show spanning-tree bridge                   | yes         |
| show spanning-tree inconsistentports        | yes         |
| show spanning-tree interface                | yes         |
| show spanning-tree issu-impact              | yes         |
| show spanning-tree mst                      | yes         |
| show spanning-tree mst configuration        | yes         |
| show spanning-tree mst configuration digest | yes         |
| show spanning-tree mst interface            | yes         |
| show spanning-tree pathcost method          | yes         |
| show spanning-tree root                     | yes         |
| show spanning-tree summary                  | yes         |
| show spanning-tree summary totals           | yes         |
| show srte pce ipv4 peer                     | yes         |
| show srte policy                            | yes         |
| show srte policy fh                         | yes         |
| show ssh key                                | yes         |
| show ssh server                             | yes         |
| show ssx details                            | yes         |
| show ssx exporter                           | yes         |
| show ssx monitor                            | yes         |
| show ssx record                             | yes         |
| show startup-config                         | no          |

| Show Commands                           | XML Support |
|---|-------------|
| show startup-config aaa                 | no          |
| show startup-config acllog              | no          |
| show startup-config aclmgr              | no          |
| show startup-config adjmgr              | no          |
| show startup-config arp                 | no          |
| show startup-config assoc               | no          |
| show startup-config backup              | no          |
| show startup-config bfd                 | no          |
| show startup-config bgp                 | no          |
| show startup-config bloggerd            | no          |
| show startup-config callhome            | no          |
| show startup-config catena              | no          |
| show startup-config cdp                 | no          |
| show startup-config cert-enroll         | no          |
| show startup-config cfs                 | no          |
| show startup-config config-profile      | no          |
| show startup-config copp                | no          |
| show startup-config dhcp                | no          |
| show startup-config diagnostic          | no          |
| show startup-config dot1x               | no          |
| show startup-config ecp                 | no          |
| show startup-config eem                 | no          |
| show startup-config eigrp               | no          |
| show startup-config eltm                | no          |
| show startup-config evb                 | no          |
| show startup-config exclude             | no          |
| show startup-config expand-port-profile | no          |
| show startup-config fabric forwarding   | no          |

| Show Commands                          | XML Support |
|--|-------------|
| show startup-config fabric multicast   | no          |
| show startup-config fcoe_mgr           | no          |
| show startup-config glbp               | no          |
| show startup-config hardware-telemetry | no          |
| show startup-config hsrp               | no          |
| show startup-config icam               | no          |
| show startup-config icmpv6             | no          |
| show startup-config igmp               | no          |
| show startup-config imp                | no          |
| show startup-config interface          | no          |
| show startup-config ip                 | no          |
| show startup-config ipqos              | no          |
| show startup-config ipv6               | no          |
| show startup-config isis               | no          |
| show startup-config l3vm               | no          |
| show startup-config ldap               | no          |
| show startup-config license            | no          |
| show startup-config lldp               | no          |
| show startup-config log                | no          |
| show startup-config macsec             | no          |
| show startup-config mmode              | no          |
| show startup-config monitor            | no          |
| show startup-config mpls static        | no          |
| show startup-config mpls strip         | no          |
| show startup-config mpls traffic-eng   | no          |
| show startup-config msdp               | no          |
| show startup-config nat                | no          |
| show startup-config nbm                | no          |

| Show Commands                              | XML Support |
|--|-------------|
| show startup-config ngoam                  | no          |
| show startup-config ntp                    | no          |
| show startup-config nv overlay             | no          |
| show startup-config nxsdk                  | no          |
| show startup-config openflow               | no          |
| show startup-config ospf                   | no          |
| show startup-config ospfv3                 | no          |
| show startup-config otv                    | no          |
| show startup-config otv-isis               | no          |
| show startup-config param-list             | no          |
| show startup-config pim                    | no          |
| show startup-config pim6                   | no          |
| show startup-config plb-services           | no          |
| show startup-config poe                    | no          |
| show startup-config port-profile           | no          |
| show startup-config port-security          | no          |
| show startup-config ptp                    | no          |
| show startup-config radius                 | no          |
| show startup-config rip                    | no          |
| show startup-config routing ip multicast   | no          |
| show startup-config routing ipv6 multicast | no          |
| show startup-config rpm                    | no          |
| show startup-config rsvp                   | no          |
| show startup-config scheduler              | no          |
| show startup-config security               | no          |
| show startup-config segment-routing        | no          |
| show startup-config services               | no          |
| show startup-config sflow                  | no          |

| Show Commands                        | XML Support |
|--------------------------------------|-------------|
| show startup-config sla responder    | no          |
| show startup-config sla sender       | no          |
| show startup-config sla twamp-server | no          |
| show startup-config smart-channel    | no          |
| show startup-config snmp             | no          |
| show startup-config srte             | no          |
| show startup-config switch           | no          |
| show startup-config tacacs           | no          |
| show startup-config telemetry        | no          |
| show startup-config track            | no          |
| show startup-config udd              | no          |
| show startup-config vdc              | no          |
| show startup-config vdc-all          | no          |
| show startup-config virtual-service  | no          |
| show startup-config vlan             | no          |
| show startup-config vmtracker        | no          |
| show startup-config vpc              | no          |
| show startup-config vrf              | no          |
| show startup-config vrf default      | no          |
| show startup-config vrrpv3           | no          |
| show startup-config vshd             | no          |
| show startup-config vtp              | no          |
| show startup-config wwnm             | no          |
| show summary                         | no          |
| show switch-profile                  | yes         |
| show switch-profile buffer           | yes         |
| show switch-profile peer             | yes         |
| show switch-profile status           | yes         |

| Show Commands                               | XML Support |
|---|-------------|
| show switch-scope controller                | no          |
| show switching-mode                         | yes         |
| show switching-mode fabric-speed            | yes         |
| show system acl                             | yes         |
| show system auto-collect tech-support       | yes         |
| show system boottime                        | yes         |
| show system config reload-pending           | yes         |
| show system cores                           | yes         |
| show system default switchport              | yes         |
| show system error-id                        | yes         |
| show system exception-info                  | yes         |
| show system fabric-mode                     | yes         |
| show system fast-reload stabilization-timer | yes         |
| show system image-verification              | yes         |
| show system inband queuing statistics       | yes         |
| show system inband queuing status           | yes         |
| show system login                           | yes         |
| show system login failures                  | yes         |
| show system memory-thresholds               | yes         |
| show system mode                            | yes         |
| show system poap                            | yes         |
| show system pss shrink status               | yes         |
| show system redundancy ha status            | yes         |
| show system redundancy status               | yes         |
| show system reset-reason                    | yes         |
| show system reset-reason module             | yes         |
| show system resources                       | yes         |
| show system resources all-modules           | yes         |

| Show Commands                       | XML Support |
|-------------------------------------|-------------|
| show system routing mode            | yes         |
| show system security                | yes         |
| show system standby manual-boot     | yes         |
| show system switch-mode             | yes         |
| show system uptime                  | yes         |
| show system verify bios flash       | yes         |
| show system vlan reserved           | yes         |
| show table-map                      | yes         |
| show tacacs-server                  | yes         |
| show tacacs-server directed-request | yes         |
| show tacacs-server groups           | yes         |
| show tacacs-server sorted           | yes         |
| show tacacs-server statistics       | yes         |
| show tech-support                   | no          |
| show tech-support aaa               | no          |
| show tech-support aclmgr            | no          |
| show tech-support aclmgr compressed | no          |
| show tech-support aclqos            | no          |
| show tech-support aclqos compressed | no          |
| show tech-support adjmgr            | no          |
| show tech-support all               | no          |
| show tech-support all binary        | no          |
| show tech-support analytics         | no          |
| show tech-support arp               | no          |
| show tech-support ascii-cfg         | no          |
| show tech-support assoc_mgr         | no          |
| show tech-support backup            | no          |
| show tech-support bfd               | no          |



| Show Commands                   | XML Support |
|---------------------------------|-------------|
| show tech-support bgp           | no          |
| show tech-support biosd         | no          |
| show tech-support bloggerd      | no          |
| show tech-support bloggerd-all  | no          |
| show tech-support bootvar       | no          |
| show tech-support brief         | no          |
| show tech-support callhome      | no          |
| show tech-support cdp           | no          |
| show tech-support cert-enroll   | no          |
| show tech-support cfs           | no          |
| show tech-support cli           | no          |
| show tech-support clis          | no          |
| show tech-support clock_manager | no          |
| show tech-support commands      | no          |
| show tech-support controller    | no          |
| show tech-support copp          | no          |
| show tech-support dcbx          | no          |
| show tech-support details       | no          |
| show tech-support dhclient      | no          |
| show tech-support dhcp          | no          |
| show tech-support dme           | no          |
| show tech-support dot1x         | no          |
| show tech-support ecp           | no          |
| show tech-support eem           | no          |
| show tech-support eigrp         | no          |
| show tech-support eltm          | no          |
| show tech-support ethpm         | no          |
| show tech-support evb           | no          |

| Show Commands  | XML Support |
|--|-------------|
| show tech-support fabric forwarding                      | no          |
| show tech-support fabric multicast                       | no          |
| show tech-support fabricpath isis                        | no          |
| show tech-support fabricpath topology                    | no          |
| show tech-support fast-reload                            | no          |
| show tech-support fc2                                    | no          |
| show tech-support fcoe                                   | no          |
| show tech-support fips                                   | no          |
| show tech-support forwarding l2 multicast                | no          |
| show tech-support forwarding l2 multicast vdc-all        | no          |
| show tech-support forwarding l2 unicast                  | no          |
| show tech-support forwarding l3 multicast                | no          |
| show tech-support forwarding l3 multicast detail         | no          |
| show tech-support forwarding l3 multicast detail vdc-all | no          |
| show tech-support forwarding l3 multicast vdc-all        | no          |
| show tech-support forwarding l3 unicast                  | no          |
| show tech-support forwarding l3 unicast detail           | no          |
| show tech-support forwarding l3 unicast detail vdc-all   | no          |
| show tech-support forwarding l3 unicast vdc-all          | no          |
| show tech-support forwarding mpls                        | no          |
| show tech-support forwarding multicast                   | no          |
| show tech-support gold                                   | no          |
| show tech-support gpixm                                  | no          |
| show tech-support ha                                     | no          |
| show tech-support ha module                              | no          |
| show tech-support ha standby                             | no          |
| show tech-support ha_short                               | no          |
| show tech-support hardware-telemetry                     | no          |

| Show Commands                      | XML Support |
|------------------------------------|-------------|
| show tech-support hsrp             | no          |
| show tech-support hsrp brief       | no          |
| show tech-support icam             | no          |
| show tech-support icmpv6           | no          |
| show tech-support im               | no          |
| show tech-support imp              | no          |
| show tech-support inband counters  | no          |
| show tech-support include-time     | no          |
| show tech-support install          | no          |
| show tech-support interface-vlan   | no          |
| show tech-support ip               | no          |
| show tech-support ip igmp          | no          |
| show tech-support ip igmp snooping | no          |
| show tech-support ip msdp          | no          |
| show tech-support ip pim           | no          |
| show tech-support ipqos            | no          |
| show tech-support ipv6             | no          |
| show tech-support ipv6 mld         | no          |
| show tech-support ipv6 multicast   | no          |
| show tech-support ipv6 pim         | no          |
| show tech-support isis             | no          |
| show tech-support issu             | no          |
| show tech-support kstack           | no          |
| show tech-support l2               | no          |
| show tech-support l2fm             | no          |
| show tech-support l2fm clients     | no          |
| show tech-support l2fm detail      | no          |
| show tech-support l2fm l2dbg       | no          |

| Show Commands                          | XML Support |
|--|-------------|
| show tech-support l2rib                | no          |
| show tech-support l3vm                 | no          |
| show tech-support l3vpn                | no          |
| show tech-support lacp                 | no          |
| show tech-support ldap                 | no          |
| show tech-support license              | no          |
| show tech-support lim                  | no          |
| show tech-support lisp                 | no          |
| show tech-support lldp                 | no          |
| show tech-support logging              | no          |
| show tech-support m2rib                | no          |
| show tech-support macsec               | no          |
| show tech-support macsec detail        | no          |
| show tech-support mfwd                 | no          |
| show tech-support mmode                | no          |
| show tech-support module               | no          |
| show tech-support module all           | no          |
| show tech-support monitor              | no          |
| show tech-support monitor erspan       | no          |
| show tech-support monitorec-all        | no          |
| show tech-support mpls manager         | no          |
| show tech-support mpls static          | no          |
| show tech-support mpls strip           | no          |
| show tech-support mpls switching       | no          |
| show tech-support mpls traffic-eng     | no          |
| show tech-support mpls fwd             | no          |
| show tech-support multicast            | no          |
| show tech-support multicast-vxlan-evpn | no          |

| Show Commands                       | XML Support |
|-------------------------------------|-------------|
| show tech-support mvpn              | no          |
| show tech-support nat               | no          |
| show tech-support nbm               | no          |
| show tech-support nbm group         | no          |
| show tech-support netflow           | no          |
| show tech-support netstack          | no          |
| show tech-support netstack detail   | no          |
| show tech-support ngoam             | no          |
| show tech-support npacl             | no          |
| show tech-support npv               | no          |
| show tech-support ns                | no          |
| show tech-support ntp               | no          |
| show tech-support nve               | no          |
| show tech-support nxapi             | no          |
| show tech-support nxsdk             | no          |
| show tech-support object-store      | no          |
| show tech-support openflow          | no          |
| show tech-support openflow platform | no          |
| show tech-support ospf              | no          |
| show tech-support ospfv3            | no          |
| show tech-support otv               | no          |
| show tech-support page              | no          |
| show tech-support patch             | no          |
| show tech-support pbr               | no          |
| show tech-support pfstat            | no          |
| show tech-support pixm              | no          |
| show tech-support pixm-all          | no          |
| show tech-support pixmc-all         | no          |

| Show Commands                            | XML Support |
|--|-------------|
| show tech-support pktmgr                 | no          |
| show tech-support platform-sdk           | no          |
| show tech-support plb-services           | no          |
| show tech-support plcmgr                 | no          |
| show tech-support pltfm-config           | no          |
| show tech-support pnp                    | no          |
| show tech-support poe                    | no          |
| show tech-support port                   | no          |
| show tech-support port-channel           | no          |
| show tech-support port-client-all        | no          |
| show tech-support port-profile           | no          |
| show tech-support port-security          | no          |
| show tech-support private-vlan           | no          |
| show tech-support ptp                    | no          |
| show tech-support radius                 | no          |
| show tech-support rip                    | no          |
| show tech-support routing                | no          |
| show tech-support routing ipv6           | no          |
| show tech-support routing ipv6 multicast | no          |
| show tech-support routing multicast      | no          |
| show tech-support rpm                    | no          |
| show tech-support sal                    | no          |
| show tech-support san                    | no          |
| show tech-support san-port-channel       | no          |
| show tech-support satmgr                 | no          |
| show tech-support security               | no          |
| show tech-support segment-routing        | no          |
| show tech-support services               | no          |

| Show Commands                      | XML Support |
|------------------------------------|-------------|
| show tech-support session-mgr      | no          |
| show tech-support sflow            | no          |
| show tech-support sksd             | no          |
| show tech-support sla responder    | no          |
| show tech-support sla sender       | no          |
| show tech-support sla twamp-server | no          |
| show tech-support smartc           | no          |
| show tech-support smm              | no          |
| show tech-support snmp             | no          |
| show tech-support sockets          | no          |
| show tech-support spm              | no          |
| show tech-support srte             | no          |
| show tech-support statsclient      | no          |
| show tech-support stp              | no          |
| show tech-support sup-filesys      | no          |
| show tech-support sysmgr           | no          |
| show tech-support tacacs           | no          |
| show tech-support telemetry        | no          |
| show tech-support track            | no          |
| show tech-support tunnel           | no          |
| show tech-support udld             | no          |
| show tech-support usd-all          | no          |
| show tech-support vdc              | no          |
| show tech-support virtual-service  | no          |
| show tech-support vlan             | no          |
| show tech-support vmtracker        | no          |
| show tech-support vpc              | no          |
| show tech-support vrrp             | no          |

| Show Commands                               | XML Support |
|---|-------------|
| show tech-support vrrp brief                | no          |
| show tech-support vrrpv3                    | no          |
| show tech-support vsan                      | no          |
| show tech-support vshd                      | no          |
| show tech-support vtp                       | no          |
| show tech-support vvlan                     | no          |
| show tech-support vxlan                     | no          |
| show tech-support vxlan platform            | no          |
| show tech-support vxlan-evpn                | no          |
| show tech-support xbar                      | no          |
| show tech-support xml                       | no          |
| show tech-support xos                       | no          |
| show telemetry control database             | yes         |
| show telemetry data collector brief         | yes         |
| show telemetry pipeline stats               | yes         |
| show telemetry transport                    | yes         |
| show telnet server                          | yes         |
| show terminal                               | yes         |
| show terminal output xml version            | yes         |
| show time-range                             | yes         |
| show time-stamp running-config last-changed | yes         |
| show trace callhome                         | no          |
| show track                                  | yes         |
| show track brief                            | yes         |
| show troubleshoot l3 vrf                    | no          |
| show trunk protocol                         | yes         |
| show ttag brief                             | yes         |
| show udd                                    | yes         |



| Show Commands                          | XML Support |
|--|-------------|
| show udd global                        | yes         |
| show udd neighbors                     | yes         |
| show user-account                      | yes         |
| show username keypair                  | yes         |
| show username passphrase timevalues    | yes         |
| show userpassphrase                    | yes         |
| show users                             | yes         |
| show vdc                               | yes         |
| show vdc current-vdc                   | yes         |
| show vdc fcoe-vlan-range               | yes         |
| show vdc resource                      | yes         |
| show vdc resource template             | yes         |
| show version                           | yes         |
| show version epld                      | yes         |
| show version image                     | yes         |
| show version module                    | yes         |
| show version module epld               | yes         |
| show virtual-service                   | yes         |
| show virtual-service storage pool list | yes         |
| show virtual-service tech-support      | no          |
| show virtual-service utilization name  | yes         |
| show virtual-service version           | yes         |
| show vlan                              | yes         |
| show vlan access-list                  | yes         |
| show vlan access-map                   | yes         |
| show vlan all-ports                    | yes         |
| show vlan counters                     | yes         |
| show vlan dot1Q tag native             | yes         |

| Show Commands                              | XML Support |
|--|-------------|
| show vlan fcoe                             | yes         |
| show vlan filter                           | yes         |
| show vlan id                               | yes         |
| show vlan id counters                      | yes         |
| show vlan id vn-segment                    | yes         |
| show vlan name                             | yes         |
| show vlan private-vlan                     | yes         |
| show vlan private-vlan type                | yes         |
| show vlan xbrief                           | yes         |
| show vlan xsummary                         | yes         |
| show vmtracker                             | yes         |
| show vmtracker certificate                 | yes         |
| show vmtracker fabric auto-config          | yes         |
| show vmtracker status                      | yes         |
| show vpc                                   | yes         |
| show vpc consistency-parameters            | yes         |
| show vpc consistency-parameters vlans      | yes         |
| show vpc fabric-ports                      | yes         |
| show vpc orphan-ports                      | yes         |
| show vpc peer-keepalive                    | yes         |
| show vpc role                              | yes         |
| show vpc statistics peer-keepalive         | yes         |
| show vpc statistics vpc                    | no          |
| show vpc virtual-peerlink dest reachable   | no          |
| show vpc virtual-peerlink vlan consistency | no          |
| show vrf                                   | no          |
| show vrf                                   | yes         |
| show vrrp                                  | yes         |

| Show Commands                         | XML Support |
|---------------------------------------|-------------|
| show vrrp bfd-sessions                | yes         |
| show vrrpv3                           | yes         |
| show vrrs client                      | yes         |
| show vrrs pathway                     | yes         |
| show vrrs server                      | yes         |
| show vrrs tag                         | yes         |
| show vsan                             | yes         |
| show vsan membership                  | yes         |
| show vsan membership interface        | yes         |
| show vsan usage                       | yes         |
| show vtp counters                     | yes         |
| show vtp interface                    | yes         |
| show vtp password                     | yes         |
| show vtp status                       | yes         |
| show wred-queue qos-group-map         | yes         |
| show wrr unicast-bandwidth            | yes         |
| show wrr-queue qos-group-map          | yes         |
| show wwn status                       | yes         |
| show wwn switch                       | yes         |
| show wwn test                         | no          |
| show wwn vsan-wwn                     | yes         |
| show xml server logging configuration | no          |
| show xml server status                | yes         |

