



Cisco Nexus 3548 NX-OS Command Reference (Show Commands), Release 7.0(3)I7(4)

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Preface

This preface includes the following sections:

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

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
bold	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.
boldface screen font	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



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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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)
TABLE_acctMethods	(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

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

Command Mode

- /exec

show aaa authentication login password-aging

```
show aaa authentication login password-aging [ __readonly__ { <passwordAging_status> } ]
```

Syntax Description

show	Show running system information
aaa	Show aaa information
authentication	Show authentication configuration
login	Show authentication login error message configuration
password-aging	Show password-aging enable configuration
<i>__readonly__</i>	(Optional)
<i>passwordAging_status</i>	(Optional) login password-aging

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 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)
<i>TABLE_sessions</i>	(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 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> <plcy_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_class <class-type>
<policies> <netflow-profile> <netflow-deny-profile> <tcam-entries> ] <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
l4ops	(Optional) l4 operations information

redirect	(Optional) redirect resource information
sampler	(Optional) with sampler details
merge	(Optional) tcam entries merge information
detail	(Optional) detailed information
module	(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
TABLE_vdc	(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
<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
<i>policies</i>	(Optional) Policy name
<i>netflow-profile</i>	(Optional) Netflow Profile
<i>netflow-deny-profile</i>	(Optional) Netflow Deny Profile
<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 [ <ip_ipv6_mac> ] access-lists [ <name> ] [ capture session <capture_session> ] [ <expanded> |
<summary> | <private> | <brief> ] [ <__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> ] [ <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> ] [ <nve_vni> ] | <remark> [ <action> <actionid>
] } ] [ <ethertype> <ethertypeid> | <vlan> <vlanid> | <ingress_intf> { <intfid> | <intfname> } | <vlan_priority>
<vlanpriorityid> ] + [ <action> <actionid> ] [ [ <stats_enabled> ] [ <frag_option> ] { <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_portl_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
<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> set-erspan-gre-proto: <1-65535>

<i>stats_enabled</i>	(Optional)
<i>frag_option</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>	(Optional) BRIEF

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__ [ <status_log_string> ] ]
```

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>status_log_string</i>	(Optional) ppf entry string

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



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show background

show background

Syntax Description

show	Show running system information
background	show background processes (started with 'source background <file>' command)

Command Mode

- /exec

show banner motd

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

Syntax Description

show	Show running system information
banner	Show current motd banner message
motd	Show current motd banner message
<i>__readonly__</i>	(Optional)
<i>banner_msg</i>	(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-app session status

```
show bfd-app session status { src-ip { <src_ip> dest-ip <dest_ip> | <src_ipv6> dest-ip <dest_ipv6> } { iod
<iod_id> | intf <intf_id> } | <all> }
```

Syntax Description

show	Show running system information
bfd-app	BFD application commands
session	session operation
src-ip	Source ip
<i>src_ip</i>	Source ip value
dest-ip	Destination ip
<i>dest_ip</i>	Destination ip value
iod	interface iod
<i>iod_id</i>	Interface iod in hex
intf	interface
<i>intf_id</i>	Interface Id
status	status of sessions
<i>all</i>	All sessions

Command Mode

- /exec

show bfd addrmap

```
show bfd addrmap [ application <appid> discriminator <discr> address-type <addrtype> address <addr> ] [
__readonly__ TABLE_bfdSessMapTable <ciscoBfdSessApplicationId> <ciscoBfdSessDiscriminator>
<ciscoBfdSessAddrType> <ciscoBfdSessAddr> <ciscoBfdSessMapBfdIndex> ]
```

Syntax Description

show	Show running system information
bfd	BFD commands
addrmap	Session
application	(Optional)
discriminator	(Optional)
address-type	(Optional)
address	(Optional)
<i>appid</i>	(Optional)
<i>discr</i>	(Optional)
<i>addrtype</i>	(Optional)
<i>addr</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_bfdSessMapTable	(Optional) Address Map table
<i>ciscoBfdSessApplicationId</i>	(Optional)
<i>ciscoBfdSessDiscriminator</i>	(Optional)
<i>ciscoBfdSessAddrType</i>	(Optional)
<i>ciscoBfdSessAddr</i>	(Optional)
<i>ciscoBfdSessMapBfdIndex</i>	(Optional)

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 discrmap

```
show bfd discrmap [ <discr> ] [ __readonly__ TABLE_bfdDiscMapTable <ciscoBfdSessDiscMapIndex> ]
```

Syntax Description

show	Show running system information
bfd	BFD commands
discrmap	Session
<i>discr</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_bfdDiscMapTable	(Optional) Discriminator map table
<i>ciscoBfdSessDiscMapIndex</i>	(Optional)

Command Mode

- /exec

show bfd intfipmap

```
show bfd intfipmap [ interface <intf> address-type <addrtype> address <addr> ] [ __readonly__
TABLE_ipMapTable <ciscoBfdSessInterface> <ciscoBfdSessAddrType> <ciscoBfdSessAddr>
<ciscoBfdSessIpMapIndex> ]
```

Syntax Description

show	Show running system information
bfd	BFD commands
intfipmap	Session
interface	(Optional)
address-type	(Optional)
address	(Optional)
<i>intf</i>	(Optional)
<i>addrtype</i>	(Optional)
<i>addr</i>	(Optional)
<i>__readonly__</i>	(Optional)
TABLE_ipMapTable	(Optional) ip map table
<i>ciscoBfdSessInterface</i>	(Optional)
<i>ciscoBfdSessAddrType</i>	(Optional)
<i>ciscoBfdSessAddr</i>	(Optional)
<i>ciscoBfdSessIpMapIndex</i>	(Optional)

Command Mode

- /exec

show bfd neighbors

```
show bfd { [ vrf { <vrf-name> | <vrf-known-name> | all } ] } { [ <ip_type> ] } neighbors { [ module
<module_no> ] [ 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> ] [ <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> ] [ <dectect_timer> ] [ <down_count>
] [ <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> ] [ <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
module	(Optional) module
<i>module_no</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>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>dectect_timer</i>	(Optional) Current Detection Timer
<i>down_count</i>	(Optional) Session Down Count
<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>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 bfd scalar

show bfd scalar [__readonly__ <adminStatus> <version> <notifEnable>]

Syntax Description

show	Show running system information
bfd	BFD commands
scalar	bfd mib scalars
__readonly__	(Optional)
<i>adminStatus</i>	(Optional) bfd admin status
<i>version</i>	(Optional) bfd version number
<i>notifEnable</i>	(Optional) Enable bfd traps

Command Mode

- /exec

show bfd session

```
show bfd session { [ discriminator <sessionIndex> ] | [ interface <intf_id> ] | [ application <app_name> ] | [ src-ip <src_ip> ] | [ dest-ip <dest_ip> ] | [ vrf { <vrf-name> | <vrf-known-name> | all } ] } + [ __readonly__ <vrf_name_header> TABLE_bfdSessTable <ciscoBfdSessIndex> <isMember> <ciscoBfdSessApplicationId> <ciscoBfdSessDiscriminator> <ciscoBfdSessRemoteDiscr> <ciscoBfdSessUdpPort> <ciscoBfdSessState> <remoteBfdSessState> <ciscoBfdSessRemoteHeardFlag> <ciscoBfdSessDiag> <remoteBfdSessDiag> <ciscoBfdSessOperMode> <ciscoBfdSessDemandModeDesiredFlag> <ciscoBfdSessEchoFuncModeDesiredFlag> <ciscoBfdSessControlPlanIndepFlag> <ciscoBfdSessAddrType> <ciscoBfdSessAddr> <localBfdSessAddr> <ciscoBfdSessDesiredMinTxInterval> <ciscoBfdSessReqMinRxInterval> <ciscoBfdSessReqMinEchoRxInterval> <ciscoBfdSessDetectMult> <remoteBfdSessDesiredMinTxInterval> <remoteBfdSessReqMinRxInterval> <remoteBfdSessReqMinEchoRxInterval> <remoteBfdSessDetectMult> <ciscoBfdSessStorType> <ciscoBfdSessRowStatus> <ciscoBfdSessAuthPresFlag> <ciscoBfdSessAuthenticationType> <ciscoBfdSessVersionNumber> <ciscoBfdSessType> <ciscoBfdSessInterface> <ciscoBfdSessPerfPktIn> <ciscoBfdSessPerfPktOut> <ciscoBfdSessUpTime> <ciscoBfdSessPerfLastSessDownTime> <ciscoBfdSessPerfLastCommLostDiag> <ciscoBfdSessPerfSessUpCount> <ciscoBfdSessPerfDiscTime> <ciscoBfdSessPerfPktInHC> <ciscoBfdSessPerfPktOutHC> <effasynct> <effechodt> ]
```

Syntax Description

show	Show running system information
bfd	BFD commands
session	Session
discriminator	(Optional) Session local discriminator
<i>sessionIndex</i>	(Optional)
interface	(Optional) interface
<i>intf_id</i>	(Optional) show bfd sessions based on interface id
application	(Optional) application
<i>app_name</i>	(Optional) show bfd session based on application name
src-ip	(Optional) Source ip
<i>src_ip</i>	(Optional) Source ip value
dest-ip	(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

<i>__readonly__</i>	(Optional)
<i>vrf_name_header</i>	(Optional)
TABLE_bfdSessTable	(Optional) BFD Session table
<i>ciscoBfdSessIndex</i>	(Optional)
<i>isMember</i>	(Optional)
<i>ciscoBfdSessApplicationId</i>	(Optional)
<i>ciscoBfdSessDiscriminator</i>	(Optional)
<i>ciscoBfdSessRemoteDiscr</i>	(Optional)
<i>ciscoBfdSessUdpPort</i>	(Optional)
<i>ciscoBfdSessState</i>	(Optional) Session state
<i>remoteBfdSessState</i>	(Optional) Session state
<i>ciscoBfdSessRemoteHeardFlag</i>	(Optional)
<i>ciscoBfdSessDiag</i>	(Optional) Session diagnostic code
<i>remoteBfdSessDiag</i>	(Optional) Session diagnostic code
<i>ciscoBfdSessOperMode</i>	(Optional) ciscoBfdSessOperMode
<i>ciscoBfdSessDemandModeDesiredFlag</i>	(Optional)
<i>ciscoBfdSessEchoFuncModeDesiredFlag</i>	(Optional)
<i>ciscoBfdSessControlPlanIndepFlag</i>	(Optional)
<i>ciscoBfdSessAddrType</i>	(Optional) ciscoBfdSessAddrType
<i>localBfdSessAddr</i>	(Optional)
<i>ciscoBfdSessAddr</i>	(Optional)
<i>ciscoBfdSessDesiredMinTxInterval</i>	(Optional)
<i>ciscoBfdSessReqMinRxInterval</i>	(Optional)
<i>ciscoBfdSessReqMinEchoRxInterval</i>	(Optional)
<i>ciscoBfdSessDetectMult</i>	(Optional)
<i>remoteBfdSessDesiredMinTxInterval</i>	(Optional)
<i>remoteBfdSessReqMinRxInterval</i>	(Optional)
<i>remoteBfdSessReqMinEchoRxInterval</i>	(Optional)
<i>remoteBfdSessDetectMult</i>	(Optional)

<i>ciscoBfdSessStorType</i>	(Optional) ciscoBfdSessStorType
<i>ciscoBfdSessRowStatus</i>	(Optional)
<i>ciscoBfdSessAuthPresFlag</i>	(Optional)
<i>ciscoBfdSessAuthenticationType</i>	(Optional) ciscoBfdSessAuthenticationType
<i>ciscoBfdSessVersionNumber</i>	(Optional)
<i>ciscoBfdSessType</i>	(Optional) ciscoBfdSessType
<i>ciscoBfdSessInterface</i>	(Optional)
<i>ciscoBfdSessPerfPktIn</i>	(Optional)
<i>ciscoBfdSessPerfPktOut</i>	(Optional)
<i>ciscoBfdSessUpTime</i>	(Optional)
<i>ciscoBfdSessPerfLastSessDownTime</i>	(Optional)
<i>ciscoBfdSessPerfLastCommLostDiag</i>	(Optional)
<i>ciscoBfdSessPerfSessUpCount</i>	(Optional)
<i>ciscoBfdSessPerfDiscTime</i>	(Optional)
<i>ciscoBfdSessPerfPktInHC</i>	(Optional)
<i>ciscoBfdSessPerfPktOutHC</i>	(Optional)
<i>effasyncdt</i>	(Optional)
<i>effechodt</i>	(Optional)

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 } nexthop <ipnexthop>
| { 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> } ] } nexthop
<ipv6nexthop> } [ 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> ] [ <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> ] ] [ <importdestscount> ] [ <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_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
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
nexthop	Display routes matching the nexthop
<i>ipnexthop</i>	Nexthop 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>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)
<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	(Optional) AMT anycast prefix
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> ] [
<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> ] [ <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_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
<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>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)
<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 { <extcommlist-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> ] [ <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> ] ] [ <importdestscout> ] [ <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
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>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
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>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)
<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>pmi</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 } | all } { rib-install | rib-uninstall | rib-pending } [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

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
rib-install	Routes installed in RIB
rib-uninstall	Routes not installed in RIB
rib-pending	Routes not acknowledged by RIB

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_nhvrfrf <nhvrfrf-name-out> TABLE_nhafi <nhafi>
TABLE_nhsafi <nhsafi> <af-name> <nhcriticaldelay> <nhnoncriticaldelay> [ { TABLE_nexthop {
<ipnexthop-out> | <ipv6nexthop-out> } <refcount> <igpmetric> <igptype> <igppref> [ { TABLE_attachedhops
{ <attachedhop> | <ipv6attachedhop> } <interface> [ { TABLE_labels <index> <label> } ] } ] <attached>
<local> <reachable> <labeled> <filtered> <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

<code>__readonly__</code>	(Optional)
<code>TABLE_nhvr</code>	(Optional)
<code>nhvr-name-out</code>	(Optional)
<code>TABLE_nhafi</code>	(Optional)
<code>nhafi</code>	(Optional)
<code>TABLE_nhsafi</code>	(Optional)
<code>nhsafi</code>	(Optional)
<code>af-name</code>	(Optional)
<code>nhcriticaldelay</code>	(Optional)
<code>nhnoncriticaldelay</code>	(Optional)
<code>TABLE_nexthop</code>	(Optional)
<code>ipnexthop-out</code>	(Optional)
<code>refcount</code>	(Optional)
<code>igpmetric</code>	(Optional)
<code>igptype</code>	(Optional)
<code>igppref</code>	(Optional)
<code>TABLE_attachedhops</code>	(Optional)
<code>attachedhop</code>	(Optional)
<code>interface</code>	(Optional)
<code>TABLE_labels</code>	(Optional)
<code>index</code>	(Optional)
<code>label</code>	(Optional)
<code>attached</code>	(Optional)
<code>local</code>	(Optional)
<code>reachable</code>	(Optional)
<code>labeled</code>	(Optional)
<code>filtered</code>	(Optional)
<code>resolvetime</code>	(Optional)
<code>pendingupdate</code>	(Optional)

<i>pendingtime</i>	(Optional)
<i>ribroute</i>	(Optional)
<i>nextadvertise</i>	(Optional)
<i>rnhepoch</i>	(Optional)
<i>pendingrnhepoch</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

show bgp bmp server

```
show bgp bmp server [ <server-id> ] [ detail ] [ __readonly__ { system_name <sys_name> } {
system_description <sys_description> } [ { TABLE_servers <server_id> <server_addr> <port> <admin_state>
<oper_state> [ <description> ] <vrf> [ <update_src> ] <initial_delay> <refresh_interval> <stats_interval> [
{ <initiation> <termination> <peer_up> <peer_down> <route_monitor> <route_mirror> <stats>
<messages_dropped> } ] [ <monitored_peers> ] [ { TABLE_peer <peer_addr> [ { <refresh_interval> <peer_up>
<peer_down> <route_monitor> <route_mirror> <stats> <messages_dropped> } ] [ <prefixes_denied>
<dup_pfx_advmnt> <pfx_dup_wdr_count> <cluster_list_loops> <as_path_loops> <as_confed_loops>
<invalid_originator> <adj_rib_in> <loc-rib> ] } ] ] ] ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
bmp	Display BMP state
server	Display BMP server information
<i>server-id</i>	(Optional) Display server specific information
detail	(Optional) Display detailed information
__readonly__	(Optional)
system_name	(Optional) bmp-server global information
<i>sys_name</i>	(Optional) system name
system_description	(Optional) bmp-server global information
<i>sys_description</i>	(Optional) system description
TABLE_servers	(Optional) all bmp servers
<i>server_id</i>	(Optional) server id number of bmp server
<i>server_addr</i>	(Optional) ip address of the bmp server
<i>port</i>	(Optional) port number of the bmp server
<i>admin_state</i>	(Optional) administrative status of bmp server
<i>oper_state</i>	(Optional) operational status of bmp server
<i>description</i>	(Optional) description for bmp server
<i>vrf</i>	(Optional) vrf context for bmp server
<i>update_src</i>	(Optional) updated source for bmp server
<i>initial_delay</i>	(Optional) initial delay for bmp server

<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> ] [ <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> <pathvermaxaslimit>
<pathmultipath> <pathnolabelednrh> ] [ <importsource> [ <originalimportsource> ] ] [ <importdestscount>
] [ <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
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>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)
<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_origrsgb_len</i>	(Optional)
<i>psid_origrsgb_flag</i>	(Optional)
<i>psid_origrsgb_base</i>	(Optional)
<i>psid_origrsgb_end</i>	(Optional)

Command Mode

- /exec

<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 convergence private

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] convergence private  
[ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

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
private	Display private information about convergence

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> ] [
<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> ] [ <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> ] [ <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
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
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>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)
<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>aggregadoras</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 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> }
] | 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
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
dampening	Display dampening info
flap-statistics	Display flap statistics for routes
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

<code>l2vpn</code>	Display BGP information for L2VPN address family
<code>vpls</code>	Display BGP information for L2VPN VPLS address family
<code>mvpn</code>	Display BGP information for MVPN address family
<code>evpn</code>	Display BGP information for L2VPN EVPN address family
<code>all</code>	Display BGP information for all address families
<code>__readonly__</code>	(Optional)
<code>TABLE_vrf</code>	(Optional)
<code>vrf-name-out</code>	(Optional)
<code>TABLE_afi</code>	(Optional)
<code>afi</code>	(Optional)
<code>TABLE_safi</code>	(Optional)
<code>safi</code>	(Optional)
<code>af-name</code>	(Optional)
<code>TABLE_rd</code>	(Optional)
<code>rd_val</code>	(Optional)
<code>rd_vrf</code>	(Optional)
<code>rd_vniid</code>	(Optional)
<code>dampening</code>	(Optional)
<code>historypaths</code>	(Optional)
<code>dampenedpaths</code>	(Optional)
<code>TABLE_prefix</code>	(Optional)
<code>ipprefix</code>	(Optional)
<code>nonipprefix</code>	(Optional)
<code>status</code>	(Optional)
<code>best</code>	(Optional)
<code>pathtype</code>	(Optional)
<code>peer</code>	(Optional)
<code>flapcount</code>	(Optional)
<code>duration</code>	(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> }
] | 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
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> <rpm dampsuppress>
<rpm dampreuse> <rpm dampsuppress> <rpm dampmaxpenalty> ] [ <dampconfigured> <damp halflife>
<damp suppress> <damp reuse> <damp suppress> <damp maxpenalty> ] ] ]
```

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
vpv4	Display BGP information for VPNv4 address family
vpv6	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)

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

Command Mode

- /exec

show bgp default-info

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | all } default-info [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

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
default-info	Display information about default routes
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

Command Mode

- /exec

show bgp event-history

show bgp [internal] event-history { <bgp-event-hist> | events | errors | msgs | detail | periodic | objstore | developer }

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
internal	(Optional) Commands for internal use
event-history	Show various event logs of BGP
<i>bgp-event-hist</i>	Show BGP event log
detail	Show detailed event logs
events	Show event logs of BGP
errors	Show error logs of BGP
msgs	Show various message logs of BGP
objstore	Show objstore logs of BGP
developer	Show developer logs of BGP
periodic	Show periodic logs of BGP

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> ] [ <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> ] ] [ <importdestscount>
] [ <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
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>regexp-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>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)
<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> ] ] [ <sourcecif> ] [ <connectedif>
] [ <connectedcheck> ] [ <lowmemexempt> ] [ <bfd> ] [ <ttlsecurity> ] [ <tllimit> ] [ <password> ] [
<passiveonly> ] [ <activepeers> <closingpeers> <maxconcurrentpeers> ] [ <allocatedpeers> ] [
<totalpeersaccepted> ] [ <localas-inactive> ] <remove-privateas> { { [ <lastread> ] <holdtime> <keepalivetime>
] [ <lastwrite> ] ] [ <keepalive> ] [ <msgrecvd> <notificationsrcvd> <rcvbufbytesinq> <msgsent>
<notificationssent> <sentbytesoutstanding> <sentbytespacked> <connsestablished> <connsdropped> [
<connattempts> ] ] { { [ <peerresettime> ] <peerresetreason> [ <resettime> ] <resetreason> } } [ <resetime>
] <resereason> [ <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-fwd> } ] [ <grrestarttime> <grstaletime> ] [
<grrecvrestarttime> ] [ [ { 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> <bytesent> <bytesrecvd> ] [ TABLE_peraf <per-afi>
TABLE_persaf <per-safi> <per-af-name> [ <tableversion> ] [ <neighbortableversion> ] [ <pfxrecvd> ] [
<pfxbytes> ] [ <pfxsent> ] [ <conditionmap> <advertisemap> <advertisemapstatus> ] [ <insoftreconfigallowed>
] [ <insoftreconfigallowedalways> ] [ <sendcommunity> ] [ <sendextcommunity> ] [ { <localnexthop> |
<ipv6localnexthop> } ] [ <thirdpartynexthop> ] [ <maxpfx> ] [ <maxpfx_threshold> ] [ <soo> ] [ <weight>
] [ <allowasin> ] [ <asoverride> ] [ <peerascheckdisabled> ] [ <vpls signalingprotocol> ] [ { TABLE_inpolicy
<inpolicynr> <inpolicytype> <inpolicyname> [ <inpolicyhandle> } ] ] [ { TABLE_outpolicy <outpolicynr>
<outpolicytype> <outpolicyname> [ <outpolicyhandle> } ] ] [ <rrconfigured> <defaultoriginate> [
<defaultoriginatormap> ] [ <defaultsent> ] [ <grpathsaved> ] [ <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>ttlsecurity</i>	(Optional)
<i>tllimit</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>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>peerresetime</i>	(Optional)
<i>peerresetreason</i>	(Optional)
<i>resetime</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>opensrecvd</i>	(Optional)
<i>updatesent</i>	(Optional)
<i>updatesrecvd</i>	(Optional)
<i>keepalivesent</i>	(Optional)
<i>keepaliverecvd</i>	(Optional)
<i>rtrefreshsent</i>	(Optional)
<i>rtrefreshrecvd</i>	(Optional)
<i>capabilitiesent</i>	(Optional)
<i>capabilitiesrecvd</i>	(Optional)
<i>bytessent</i>	(Optional)
<i>bytesrecvd</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>capgrdynamicrecvd</i>	(Optional)
<i>capaddpathsrecvd</i>	(Optional)
<i>caprefreshrecvd</i>	(Optional)
<i>capolddynamicadvertised</i>	(Optional)
<i>capolddynamicrecvd</i>	(Optional)
<i>caprradvertised</i>	(Optional)
<i>caprrrecvd</i>	(Optional)
<i>capoldrradvertised</i>	(Optional)
<i>capoldrrrecvd</i>	(Optional)
<i>capas4advertised</i>	(Optional)
<i>capas4recvd</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>pfxrcvd</i>	(Optional)
<i>pfxbytes</i>	(Optional)
<i>pfxsent</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>lasteorrecvtime</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 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> ] [ <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> ] ] [ <importdstscount>
] [ <existpath> ] [ <aspath> <source> ] { <ipnexthop> | <ipv6nexthop> } <nexthopmetric> { <neighbor> |
<ipv6neighbor> } <neighborid> <origin> [ <metric> ] <localpref> <weight> [ <aggregator> <aggregatoras>
<atomicaggregator> ] [ <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> ] [ <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>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)
<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)
<i>TABLE_sesscmd</i>	(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
__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_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> ] [ <ttlsecurity> ] [
<ttllimit> ] [ <password> ] [ <passiveonly> ] <localas-inactive> [ <remove-privateas> ] [ <configholdtime>
<configkeepalivetime> ] [ TABLE_peraf <per-afi> TABLE_persaf <per-safi> <per-af-name> [ <tableversion>
] [ <neighbortableversion> ] [ <pfxrecvd> ] [ <pfxbytes> ] [ <pfxsent> ] [ <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> ] [
<grppathsaved> ] [ <firsteorrecvd> ] [ <firsteortime> ] [ <pathsflushed> ] [ <lasteorrecvtime> ] [
<lasteorsenttime> ] [ <firstconvgttime> ] [ <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>ttlsecurity</i>	(Optional)
<i>tllimit</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>pfxrcvd</i>	(Optional)
<i>pfxbytes</i>	(Optional)
<i>pfxsent</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>lasteorrecvtime</i>	(Optional)
<i>lasteorsenttime</i>	(Optional)
<i>firstconvgtime</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> ] [ <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>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> ] [
<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> ] [ <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_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
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>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)
<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_origrsrb_len</i>	(Optional)
<i>psid_origrsrb_flag</i>	(Optional)
<i>psid_origrsrb_base</i>	(Optional)
<i>psid_origrsrb_end</i>	(Optional)

Command Mode

- /exec

show bgp private

```
show bgp private [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { all_private
| session | ipc | rnh | lists | rpm-info [ route-map <rpm-name> { <ip-prefix> | <ipv6-prefix> } ] | attr [ {
<ip-prefix> } ] | rpm-attribute-cache | rpm-comm-attr-cache | virtual [ summary ] } [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
private	Show BGP information intended for developer eyes only
all_private	Show all info
session	Show session info
lists	Show BGP internal lists
route-map	(Optional) Show information for route-map
rpm-info	Show BGP policy outbound info
<i>ip-prefix</i>	(Optional) Show attribute for a prefix
<i>rpm-name</i>	(Optional) Route-map name
attr	Show attribute information
ipc	Show ipc information
rnh	Show recursive next hops
rpm-attribute-cache	Show rpm attribute cache statistics
rpm-comm-attr-cache	Show rpm community attribute cache statistics
summary	(Optional) Summary only
virtual	Virtualization related
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

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 damp

```
show bgp private [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 {
unicast | multicast } | ipv6 { unicast | multicast } | all } damp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ]
```

Syntax Description

show	Show running system information
bgp	Display BGP status and configuration
private	Show BGP information intended for developer eyes only
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
damp	Show dampening info

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> ] <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-vni-id> ] [ <vrf-vni-id-valid> ] [ <vrf-encap-type> ] [
<vrf-vtep-ip> ] [ <vrf-vtep-virtual-ip> ] [ <vrf-vtep-vipr> ] [ <vrf-router-mac> ] [ <vrf-vip-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> ] [ <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> } ] [ { 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> ] [
<importdefault_prefixlimit> <importdefault_prefixcount> <importdefault_map> ] [ <exportdefault_prefixlimit>
<exportdefault_prefixcount> <exportdefault_map> ] <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	(Optional) Detailed information
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>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-vni-id</i>	(Optional) VRF VNI ID
<i>vrf-vni-id-valid</i>	(Optional) VRF VNI ID validity

<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-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</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
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>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>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>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> ] [ <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> ] ] [ <importdestscout> ] [ <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
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	(Optional) private
__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)

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_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>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)
<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 regexp

```
show bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast |
multicast } | ipv6 { unicast | multicast } | all } 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> ] [ <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> ] ] [ <importdestscount>
] [ <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
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
regexp	Display routes matching the AS path regular expression
<i>regexp-str</i>	Regular expression to match the AS paths
__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>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)
<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_origrsrb_len</i>	(Optional)
<i>psid_origrsrb_flag</i>	(Optional)
<i>psid_origrsrb_base</i>	(Optional)
<i>psid_origrsrb_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> ] [ <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> ] ] [ <importdestscount>
] [ <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
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>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)
<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> <remoteas> [ <lastflap> ] [ <lastread>
] [ <lastwrite> ] <state> <localport> <remoteport> <notificationssent> <notificationreceived> ] ]
```

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>remoteas</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-rsn</i>	(Optional) VRF State Reason
<i>vrf-delete-pending</i>	(Optional) VRF delete pending
<i>vrf-vni-id</i>	(Optional) VRF VNI ID
<i>vrf-vni-id-valid</i>	(Optional) VRF VNI ID validity
<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-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</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 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-vni-id> ] [ <vrf-vni-id-valid> ] [ <vrf-encap-type> ] [ <vrf-vtep-ip> ] [ <vrf-vtep-virtual-ip> ] [
<vrf-vtep-vipr> ] [ <vrf-router-mac> ] [ <vrf-vip-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> ] [
<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> ] [
<softreconfigcombopaths> ] [ <softreconfigfilteredrecvd> ] [ <softreconfigbytes> ] [ TABLE_neighbor
<neighborid> [ <neighborversion> ] [ <msgrecvd> ] [ <msgsent> ] [ <neighbortableversion> ] [ <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-vni-id</i>	(Optional) VRF VNI ID
<i>vrf-vni-id-valid</i>	(Optional) VRF VNI ID validity
<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-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</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> ] } ]
```

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
__readonly__	(Optional)
TABLE_bootvar_show	(Optional) Bootvar table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show boot auto-copy

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

Syntax Description

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

Command Mode

- /exec

show boot auto-copy list

```
show boot auto-copy list [ __readonly__ { [ TABLE_auto_copy_list <Str1> ] } ]
```

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
auto-copy	See if autocopy 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)

Command Mode

- /exec

show boot autocopy-status

show boot autocopy-status

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
autocopy-status	Display the standby autocopy status

Command Mode

- /exec

show boot current

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

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
<i>Str1</i>	(Optional)

Command Mode

- /exec

show boot mode

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

Syntax Description

show	Show boot mode information
boot	Show boot mode
mode	See if lxc boot is turned on
__readonly__	(Optional)
TABLE_mode	(Optional) boot mode table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show boot order

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

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
order	Show Boot Order
__readonly__	(Optional)
TABLE_bootvar_order	(Optional) Boot order table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show boot sup-1

```
show boot sup-1 [ __readonly__ { [ TABLE_show_sup1 <Str1> ] } ]
```

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
sup-1	Enter sup-1 to show the 1st sup config
__readonly__	(Optional)
TABLE_show_sup1	(Optional) Show Sup-1 bootvar table
<i>Str1</i>	(Optional)

Command Mode

- /exec

show boot sup-2

```
show boot sup-2 [ __readonly__ { [ TABLE_show_sup2 <Str1> ] } ]
```

Syntax Description

show	Show running system information
boot	Show Bootvar Variables
sup-2	Enter sup-2 to show the 2nd sup config
__readonly__	(Optional)
TABLE_show_sup2	(Optional) Show Sup-22 bootvar table
<i>Str1</i>	(Optional)

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> ] } ]
```

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)

Command Mode

- /exec

show bootmode

```
show bootmode [ module <module> ] [ __readonly__ { TABLE_bootmode_info <mod_num> <bootmode> } ]
```

Syntax Description

show	Show running system information
bootmode	show bootmode of the all linecard modules
module	(Optional) show bootmode of a specific linecard module
<i>module</i>	(Optional) please enter module number
__readonly__	(Optional)
TABLE_bootmode_info	(Optional)
<i>mod_num</i>	(Optional)
<i>bootmode</i>	(Optional)

Command Mode

- /exec

show buffers ip

```
show buffers ip [ { [ all <count> ] [ free <count> ] } ]
```

Syntax Description

show	Show running system information
buffers	Display detailed buffer statistics
ip	Display IP buffer information
all	(Optional) Dump buffers from ALL list
free	(Optional) Dump buffers from FREE list
<i>count</i>	(Optional) Number of buffers to dump

Command Mode

- /exec



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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> [ <email_conf> ] <url_info> [ <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>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 [ <email_conf> ] ] <url_info>
[ TABLE_url [ <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
s0	Show information for user defined destination profile
__readonly__	(Optional)
user_txt_info	(Optional)
max_mess_size	(Optional)
mess_format	(Optional)
mess_level	(Optional)
trans_method	(Optional)
email_info	(Optional)
TABLE_email	(Optional)
email_conf	(Optional)
url_info	(Optional)
TABLE_url	(Optional)
url_conf	(Optional)
alert_groups	(Optional)
TABLE_alert	(Optional)
alert_conf	(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> [ <email_conf> ] <url_info> [ <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>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> [ <email_conf> ] <url_info> [ <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>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> [ <email_conf> ] <url_info> [ <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>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> <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>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-catena-instance <instance-name> [
per-chain [ <chain-id> ] ] } [ __readonly__ <instance_name> <per_node> <per_node_total>
<per_node_total_val> <chain_id> <per_device_group> <per_device_group_hdr> <per_device_group_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-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
<i>__readonly__</i>	(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_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>stats_counter</i>	(Optional) stats_counter

Command Mode

- /exec

show cdp

```
show cdp { entry { all | 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
all	Show all CDP entries in database
name	Show a specific CDP entry matching a name
<i>s0</i>	
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_cdp_entry_all</i>	(Optional) output of show cdp entry all
<i>device_id</i>	(Optional) Device Identifier
<i>sysname</i>	(Optional) System Name
<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>vtpname</i>	(Optional) Vtp Management Domain Name
<i>duplexmode</i>	(Optional) Duplex Mode
<i>syslocation</i>	(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> } + ] ]
```

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

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> ]
```

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

Command Mode

- /exec

show cfs application

```
show cfs application [ { name <cfs-dyn-app-name> | sap <i0> } ] [ __readonly__ [ { enabled <enabled> } {
timeout <timeout> } { merge_capable <merge_capable> } { scope <scope> } { region <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	(Optional) Show local application information by sap
<i>i0</i>	(Optional) Registered sap of the local application
__readonly__	(Optional)
enabled	(Optional) whether application is CFS enabled
<i>enabled</i>	(Optional) whether application is CFS enabled
timeout	(Optional) timeout
<i>timeout</i>	(Optional) timeout
merge_capable	(Optional) merge_capable
<i>merge_capable</i>	(Optional) merge_capable
scope	(Optional) scope
<i>scope</i>	(Optional) scope
region	(Optional) region
<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	(Optional) Application sap for which the lock status is required
<i>il</i>	(Optional) Application SAP
<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	(Optional) Show merge status by sap
<i>il</i>	(Optional) Application sap
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	(Optional) Show peers for given application sap
<i>il</i>	(Optional) Application sap
<i>__readonly__</i>	(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 remote-app vsan domain

show cfs remote-app vsan <i0> domain <i1>

Syntax Description

show	Show running system information
cfs	CFS Show Command handler
remote-app	Show remote cfs registered applications
vsan	Show remote applications given a vsan
<i>i0</i>	VSAN id
domain	Show remote applications
<i>i1</i>	Enter the domain id

Command Mode

- /exec

show cfs remote-switches vsan

```
show cfs remote-switches vsan <i0> [ __readonly__ { local <domain> } [ { TABLE_switches <remote_domain>
<wwn> } ] ]
```

Syntax Description

show	Show running system information
cfs	CFS Show Command handler
remote-switches	Show remote switches on a given vsan
vsan	Show remote switches on a given vsan
<i>i0</i>	VSAN id
<i>__readonly__</i>	(Optional)
<i>local</i>	(Optional) local
<i>domain</i>	(Optional) domain
<i>TABLE_switches</i>	(Optional) all remote switches
<i>remote_domain</i>	(Optional) rdomain
<i>wwn</i>	(Optional) wwn

Command Mode

- /exec

show cfs static peers

show cfs static peers

Syntax Description

show	Show running system information
cfs	CFS Show Command handler
static	Show all static peers with status
peers	Show all configured static peers with status

Command Mode

- /exec

show cfs status

```
show cfs status [ __readonly__ { distribution <distribution> } { distribution_over_ip <dist_over_ip> } {
  ipv4_multicast_address <ipv4_mcast_addr> } { ipv6_multicast_address <ipv6_mcast_addr> } {
  distribution_over_ethernet <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)
distribution	(Optional) runtime status of CFS distribution
<i>distribution</i>	(Optional) operational status of CFS distribution
distribution_over_ip	(Optional) runtime information of CFS over IP
<i>dist_over_ip</i>	(Optional) operational status of CFS over IP
ipv4_multicast_address	(Optional) ipv4 multicast address
<i>ipv4_mcast_addr</i>	(Optional) ipv4 multicast address
ipv6_multicast_address	(Optional) ipv6 multicast address
<i>ipv6_mcast_addr</i>	(Optional) ipv6 multicast address
distribution_over_ethernet	(Optional) runtime status if CFS over Ethernet
<i>dist_over_eth</i>	(Optional) operations status of CFS over Ethernet

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

```
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 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 ] [ <cmmap-name> | xxx <color-map-enum-name> ] } | { type queuing [ yyy
<cmmap-enum-name> | zzz <default-cmap-enum-name> | <cmmap-dce-name> | <cmmap-name-hque> ] } ] [
__readonly__ { [ <display-all> ] [ TABLE_cmap <cmmap-key> [ <id> ] <xqos-or-q> [ <any_or_all> ]
<cmmap-name-out> [ <desc> ] [ TABLE_match <match-key> [ <not> ] [ <dscp-list> ] [ <precedence-list> ] [
<cos-list> ] [ <qos-group-list> ] [ <discard-class-list> ] [ <vlan-list> ] [ <match-cmap-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>cmmap-name</i>	(Optional) class map name
<i>cmmap-enum-name</i>	(Optional)
<i>default-cmap-enum-name</i>	(Optional)
<i>cmmap-dce-name</i>	(Optional) Queuing class-map name
<i>cmmap-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_cmap	(Optional) all cmap xml sessions
<i>cmmap-key</i>	(Optional) Class-map name: xml key
TABLE_match	(Optional) all match xml sessions
<i>match-key</i>	(Optional) match count: xml key
<i>cmmap-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>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>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 [ <imap-name> ] [ __readonly__ [ { TABLE_cmap <imap-key>
<imap-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>imap-name</i>	(Optional) Name of the class-map
<i>__readonly__</i>	(Optional)
TABLE_cmap	(Optional) all cmap xml sessions
<i>imap-name-out</i>	(Optional) Name of the class-map
<i>imap-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 [ < cmap-name-nq > ] [ __readonly__ { [ < display-all > ] [ TABLE_cmap
< cmap-key > < xmap-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>cmap-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>cmap-key</i>	(Optional) Class-map name: xml key
<i>desc</i>	(Optional) Description string
<i>xmap-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 class-map type psp

```
show class-map type psp { [ < cmap-name-plc > [ client < clienttype > < clientID > ] [ cfg-mode < cfgmode > ] ]
| [ handle < ppf_id > ] } [ __readonly__ { [ < display-all > ] [ TABLE_cmap < cmap-key > [ < id > ] [ < any_or_all >
] [ < _inline_ > ] [ class-default ] < cmap-name-out > [ < desc > ] [ TABLE_match < match-key > [ < not > ] [
< any > ] [ < cos-list > ] [ < mac_src > < mac_src_wild > ] [ < mac_dest > < mac_dest_wild > ] [ < eth-value > ] [
< vlan-number > ] [ < tos-value > ] [ < ip-protocol-value > ] [ < ip-s-addr > < ip-s-mask > ] [ < ip-d-addr > < ip-d-mask >
] [ < tcp-src-port-addr > ] [ < tcp-dest-port-addr > ] [ < udp-src-port-addr > ] [ < udp-dest-port-addr > ] [
< interface-name > ] [ < ipv6-s-addr > < ipv6-s-mask > ] [ < ipv6-d-addr > < ipv6-d-mask > ] [ < dscp-list > ] ] ] }
```

Syntax Description

show	Show running system information
class-map	Show class maps
type	Type of the class-map
psp	type psp
<i>cmap-name-plc</i>	(Optional) Class-map name
client	(Optional) set client type
<i>clienttype</i>	(Optional) cli/onep
<i>clientID</i>	(Optional) client appID
cfg-mode	(Optional) cfg-mode
<i>cfgmode</i>	(Optional) persistent/transient
handle	(Optional) Handle
<i>ppf_id</i>	(Optional) PPF ID
__readonly__	(Optional)
<i>display-all</i>	(Optional) Display all kinds of class-maps
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
TABLE_match	(Optional) all match xml sessions
<i>match-key</i>	(Optional) match count: xml key
class-default	(Optional)
<i>cmap-name-out</i>	(Optional) Class-map name
<i>any_or_all</i>	(Optional) Enter match-any or match-all
__inline__	(Optional) Inline class

<i>id</i>	(Optional) Class-map ID
<i>desc</i>	(Optional) Description string
<i>not</i>	(Optional) Negate this match result
<i>any</i>	(Optional) Wildcard match
<i>cos-list</i>	(Optional) List of class-of-service values
<i>mac_src</i>	(Optional) Source MAC address
<i>mac_src_wild</i>	(Optional) Source MAC mask
<i>mac_dest</i>	(Optional) Destination MAC address
<i>mac_dest_wild</i>	(Optional) Destination MAC mask
<i>eth-value</i>	(Optional) Ethernet type
<i>vlan-number</i>	(Optional) Vlan number
<i>tos-value</i>	(Optional) IPv4 TOS
<i>ip-protocol-value</i>	(Optional) IPV4 protocol
<i>ip-s-addr</i>	(Optional) IP address in format a.b.c.d
<i>ip-d-addr</i>	(Optional) IP address in format a.b.c.d
<i>ip-s-mask</i>	(Optional) IP address Mask in format a.b.c.d
<i>ip-d-mask</i>	(Optional) IP address Mask in format a.b.c.d
<i>tcp-src-port-addr</i>	(Optional) Transport layer port number
<i>tcp-dest-port-addr</i>	(Optional) Transport layer port number
<i>udp-src-port-addr</i>	(Optional) Transport layer port number
<i>udp-dest-port-addr</i>	(Optional) Transport layer port number
<i>interface-name</i>	(Optional) Physical interface Name and Number
<i>dscp-list</i>	(Optional) List of DSCP 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
<i>s0</i>	(Optional) Specify the alias
__readonly__	(Optional)
TABLE_cli_alias	(Optional) cli alias table
<i>alias</i>	(Optional) alias
<i>name</i>	(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

show	Show running system information
cli	CLI commands
dynamic	Display current range of dynamic parameters
integers	Display current range of dynamic integer parameters
<i>name</i>	(Optional) name of the dynamic parameter
<i>__readonly__</i>	(Optional)
TABLE_dynamic_integers	(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)
<i>TABLE_dynamic_strings</i>	(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>] +

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
recurse	(Optional) go
detail	(Optional) formats

Command Mode

- /exec

show cli registry

show cli registry [ctags | tags | modes | session | inherit]

Syntax Description

show	Show running system information
cli	
registry	
ctags	(Optional)
tags	(Optional)
modes	(Optional)
session	(Optional)
inherit	(Optional)

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> [ <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>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 clock utc

show clock utc

Syntax Description

show	Show running system information
clock	Display current Date
utc	Display current time in UTC

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
__readonly__	(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> { <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)
ssn-cmd-num	(Optional)
command	(Optional)

Command Mode

- /exec

show configuration session

show configuration session [*__readonly__* { *<ssn-name>* *<ssn-cmd-num>* *<command>* } + *<trlr>*]

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>ssn-name</i>	(Optional)
<i>ssn-cmd-num</i>	(Optional)
<i>command</i>	(Optional)
<i>trlr</i>	(Optional)

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 nx-api rest

show configuration session nx-api rest

Syntax Description

show	Show running system information
configuration	Show information about configuration sessions
session	Show active configuration sessions
nx-api	NX-API
rest	NX-API REST JSON format

Command Mode

- /exec

show configuration session nx-yang json

```
show configuration session nx-yang { json | xml }
```

Syntax Description

show	Show running system information
configuration	Show information about configuration sessions
session	Show active configuration sessions
nx-yang	NXOS YANG
json	NXOS YANG JSON format
xml	NXOS YANG XML format

Command Mode

- /exec

show configuration session status

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

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
ssn-name	(Optional)
last-action	(Optional)
ac-tstamp	(Optional)
ac-status	(Optional)
ac-reason	(Optional)
failed-cmd-num	(Optional)
failed-cmd	(Optional)
last-vfy-cmd-num	(Optional)
last-vfy-cmd	(Optional)
last-vfy-tstamp	(Optional)
rollback-status	(Optional)
trlr	(Optional)

Command Mode

- /exec

show configuration session summary

```
show configuration session summary [ __readonly__ <hdr> { <ssn-name> <username> <tstamp> } + <trlr> ]
```

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
__readonly__	(Optional) Read only
<i>hdr</i>	(Optional)
<i>ssn-name</i>	(Optional)
<i>username</i>	(Optional)
<i>tstamp</i>	(Optional)
<i>trlr</i>	(Optional)

Command Mode

- /exec

show configuration session vsh

show configuration session <s3> vsh [__readonly__ <ssn-name> { <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
vsh	
__readonly__	(Optional) Read only
<i>ssn-name</i>	(Optional)
<i>ssn-cmd-num</i>	(Optional)
<i>command</i>	(Optional)

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>

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
l2	l2 consistency
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

Command Mode

- /exec

show consistency-checker l3 multicast group source vrf

show consistency-checker l3 multicast group <grp-address> source <src-address> vrf <vrf-string>

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
l3	l3 consistency
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
vrf	Do consistency check for vrf
<i>vrf-string</i>	Vrf string

Command Mode

- /exec

show consistency-checker link-state fabric-ieth

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

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

Command Mode

- /exec

show consistency-checker vxlan l3-route vrf

show consistency-checker vxlan l3-route <l3-route> vrf <vrf-string>

Syntax Description

show	Show running system information
consistency-checker	Consistency Checker
vxlan	vxlan related information
l3-route	Do consistency check for route
<i>l3-route</i>	L3 Route IP Address
vrf	Do consistency check for vrf
<i>vrf-string</i>	Vrf string

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) Copyright 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 [ __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 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 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
<i>s0</i>	trustpoint label
<i>__readonly__</i>	(Optional)
Trustpoint	(Optional) Trustpoint
<i>trustpoint</i>	(Optional) Trustpoint
CRL	(Optional) Certificate Revocation List
<i>crl</i>	(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 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

cts	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 294
- [show diagnostic bootup level](#), on page 295
- [show diagnostic description module test all](#), on page 296
- [show diagnostic events](#), on page 297
- [show diagnostic result module](#), on page 298
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- [show dot1q-tunnel interface](#), on page 304
- [show dot1x](#), on page 305

show dampening interface

show dampening interface

Syntax Description

show	Show running system information
dampening	Display dampening information
interface	Display interface dampening general information

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
<i>__readonly__</i>	(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> ]
```

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

Command Mode

- /exec



E Show Commands

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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] [detail | summary]

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
detail	(Optional) Detailed report
summary	(Optional) Summary of the report

Command Mode

- /exec

show email

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

Syntax Description

<code>show</code>	Show running system information
<code>email</code>	Pipe email configuration
<code>__readonly__</code>	(Optional)
<code>ipv4</code>	(Optional)
<code>host</code>	(Optional)
<code>port</code>	(Optional)
<code>reply</code>	(Optional)
<code>from</code>	(Optional)
<code>vrfname</code>	(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_alloced> ] [ <amps_alloced> ] [ <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_psinputinfo_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> } ] [ {
TABLE_pstupinfo <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
detail1	(Optional) Detail Fan-tray information when used with Fan
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	(Optional) psu temperature

<code>__readonly__</code>	(Optional)
<code>TABLE_clockinfo</code>	(Optional) Environment Clock
<code>clockname</code>	(Optional) Clock Instance (A or B)
<code>clkmodel</code>	(Optional) Model number of clock
<code>clkhwver</code>	(Optional) Hardware version of the clock
<code>clkstatus</code>	(Optional) Present/Absent Status of the clock
<code>act_standby</code>	(Optional) Active/Standby Status of clock
<code>fanetails</code>	(Optional) Environment Fan
<code>TABLE_faninfo</code>	(Optional) Fan Info
<code>fanname</code>	(Optional) Fan Instance
<code>fanmodel</code>	(Optional) Model number of fan
<code>fanhwver</code>	(Optional) Hardware version of the fan
<code>fandir</code>	(Optional) Air-flow direction of the fan-tray
<code>fanstatus</code>	(Optional) Present/Absent Status of the fan
<code>TABLE_fan_zone_speed</code>	(Optional) Fan Zone Speeds
<code>zone</code>	(Optional) Zone Number
<code>zonespeed</code>	(Optional) Zone Speed
<code>fan_filter_status</code>	(Optional) Present/Absent Status of fan filter
<code>TABLE_fantray</code>	(Optional) Fan Tray Details table
<code>fanname</code>	(Optional) Fan Tray Instance
<code>trayfannum</code>	(Optional) Fan number in the tray
<code>fandir</code>	(Optional) Air-flow direction of the fan-tray
<code>fanperc</code>	(Optional) FAN Speed percentage
<code>fanrpm</code>	(Optional) FAN Speed RPM
<code>TABLE_psufan</code>	(Optional) PSU Fan Details table
<code>fanname</code>	(Optional) PSU Fan Instance
<code>fan1rpm</code>	(Optional) FAN1 Speed RPM
<code>fan2rpm</code>	(Optional) FAN2 Speed RPM
<code>fanetails_3k</code>	(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
<i>power_summary</i>	(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
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 eol status

show eol status

Syntax Description

show	Show running system information
eol	last
status	

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
cause	(Optional) errdisable cause
state	(Optional) Interface state
time_interval	(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_rcv_vdpdu> <evb_cnt_drop_vdpdu> <evb_cnt_rcv_tlv> <evb_cnt_rcv_mgr_tlv>
<evb_cnt_rcv_assoc_tlv> <evb_cnt_rcv_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_rcv_vdpdu</i>	(Optional) No. received vdpdu
<i>evb_cnt_drop_vdpdu</i>	(Optional) No. dropped vdpdu
<i>evb_cnt_rcv_tlv</i>	(Optional) No. received tlv
<i>evb_cnt_rcv_mgr_tlv</i>	(Optional) No. received mgr tlv
<i>evb_cnt_rcv_assoc_tlv</i>	(Optional) No. received assoc tlv
<i>evb_cnt_rcv_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 reaon
<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 interface

show evb interface [<intf-name>]

Syntax Description

show	Show running system information
evb	EVB (Edge Virtual Bridge)
interface	Display interface information
<i>intf-name</i>	(Optional) Interface name

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	(Optional) Display detailed and internal information
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
__readonly__	(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-history

show event-history

Syntax Description

show	Show running system information
event-history	show switch wide event history configuration

Command Mode

- /exec

show event-history xbar

show event-history xbar

Syntax Description

show	Show running system information
event-history	show switch wide event history configuration
xbar	Show all event-history debugging flags of xbar

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
<i>__readonly__</i>	(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



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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
__readonly__	(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 dci

```
show fabric database dci [ { vrf <vrf-name> [ peer-id <peer-ip-address> ] [ detail ] } ]
```

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
peer-id	(Optional) management ip address of peer
<i>peer-ip-address</i>	(Optional) IP address in CIDR format
detail	(Optional) Show detailed information

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 host temp

show fabric database host temp [interface <intf-id>] [dot1q <vlan-id>]

Syntax Description

show	Show running system information
fabric	Fabric
database	Fabric Database
host	Auto-configured Hosts
temp	Temporary
interface	(Optional) Specified interface to display
<i>intf-id</i>	(Optional) Name of interface
dot1q	(Optional) Dot1Q Encapsulation
<i>vlan-id</i>	(Optional)

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
<i>host_key</i>	(Optional) static-host key
<i>interface</i>	(Optional) interface name
<i>state</i>	(Optional) static-host state
<i>retry_delay</i>	(Optional) seconds until next retry
<i>retry_attempts</i>	(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

```
show fabric multicast { ipv4 { mroute [ { <v4_group> [ <v4_source> ] } ] | ssm-range | rp-grange | sa-ad-route
[ { <v4_group> [ <v4_source> ] } ] } | ipv6 { mroute [ { <v6_group> [ <v6_source> ] } ] | ssm-range | rp-grange
| sa-ad-route [ { <v4_group> [ <v4_source> ] } ] } } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [
__readonly__ TABLE_vrf <context_name> <nlri_type> <vnid> [ TABLE_mroute <mroute> { TABLE_node
<node_addr> <real_join> <sim_join> <rpf_nbr> } ] [ TABLE_rp <border_leaf_addr> { TABLE_rp_grange
<rp_grange_desc> } ] [ TABLE_ssm <border_leaf_addr> { TABLE_ssm_range <ssm_range_desc> } ] ]
```

Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
ipv4	Display IP information
ipv6	Display IPv6 information
mroute	display fabric mroutes
sa-ad-route	display Src Active AD routes
ssm-range	display SSM ranges
rp-grange	display RP granges
<i>v4_group</i>	(Optional) IPV4 Group address to display
<i>v4_source</i>	(Optional) IPV4 Source address 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 all VRFs NGMVPN is aware of
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>context_name</i>	(Optional)
<i>nlri_type</i>	(Optional)
<i>vnid</i>	(Optional)
TABLE_mroute	(Optional)
<i>mroute</i>	(Optional)

TABLE_node	(Optional)
<i>node_addr</i>	(Optional)
<i>real_join</i>	(Optional)
<i>sim_join</i>	(Optional)
<i>rpj_nbr</i>	(Optional)
TABLE_rp	(Optional)
<i>border_leaf_addr</i>	(Optional)
TABLE_rp_grange	(Optional)
<i>rp_grange_desc</i>	(Optional)
TABLE_ssm	(Optional)
<i>border_leaf_addr</i>	(Optional)
TABLE_ssm_range	(Optional)
<i>ssm_range_desc</i>	(Optional)

Command Mode

- /exec

show fabric multicast event-history

show fabric multicast [internal] event-history { errors | msgs | <ngmvpn-event-hist-buf-name> | statistics }

Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
internal	(Optional) Commands for internal use
event-history	Show various event logs of NGMVPN
errors	Show error logs of NGMVPN
msgs	Show various message logs of NGMVPN
<i>ngmvpn-event-hist-buf-name</i>	Show event hist buffer name
statistics	Show the state and size of the buffer

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> ]
```

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)

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 ipv4 rp

```
show fabric multicast { ipv4 | ipv6 } { rp-route } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
ipv4	Display IP information
ipv6	Display IPv6 information
rp-route	display fabric rp-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 all VRFs NGMVPN is aware of

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 trigger-bgp-update vnid source group nlri-origin

```
show fabric multicast trigger-bgp-update vnid <vnid> source <source> group <group> nlri-origin <nlri-origin>
[ delete ] [ starg ] [ sa-ad-route ]
```

Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
trigger-bgp-update	simulate bgp update
vnid	Add/Del route with this vnid
<i>vnid</i>	vnid address
source	Add/Del route with this source
<i>source</i>	Source address
group	Add/Del route with this group
<i>group</i>	Group address
nlri-origin	Add/Del route with this nlri-origin
<i>nlri-origin</i>	Nlri Origin address
delete	(Optional) Whether this is a delete
starg	(Optional) Whether this is starg update
sa-ad-route	(Optional)

Command Mode

- /exec

show fabric multicast trigger-isis-update nh-addr swid

show fabric multicast trigger-isis-update nh-addr <nh-addr> swid <swid> [delete]

Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
trigger-isis-update	simulate isis update
nh-addr	Add/Del mapping with this nh-addr
<i>nh-addr</i>	Nlri Origin address
swid	Add/Del mapping with this swid
<i>swid</i>	switch id
delete	(Optional) Whether this is a delete

Command Mode

- /exec

show fabric multicast trigger-m6rib-update vrf source group

```
show fabric multicast trigger-m6rib-update vrf { <vrf-name> | <vrf-known-name> } source <source> group
<group> [ delete ]
```

Syntax Description

show	Show running system information
fabric	Fabric
multicast	Multicast information
trigger-m6rib-update	simulate m6rib update
vrf	Display per-VRF information
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name
source	Add/Del route with this source
group	Add/Del route with this group
delete	(Optional) Whether this is a delete

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
<i>HIX</i>	(Optional) hix
<i>VSAN</i>	(Optional) vsan
<i>S_ID</i>	(Optional) sid
<i>D_ID</i>	(Optional) did
<i>IFIDX</i>	(Optional) ifidx
<i>R_A_TOV</i>	(Optional) r_a_tov
<i>E_D_TOV</i>	(Optional) e_d_tov
<i>F-SO</i>	(Optional) f-so
<i>RC</i>	(Optional) rc
<i>RS</i>	(Optional) rs
<i>CS</i>	(Optional) cs
<i>EE</i>	(Optional) ee
<i>2-SO</i>	(Optional) 2-so
<i>RS</i>	(Optional) rs
<i>3-SO</i>	(Optional) 3-so
<i>RS</i>	(Optional) rs
<i>EECNT</i>	(Optional) eecnt
<i>TCCNT</i>	(Optional) tcnt
<i>FCNT</i>	(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
<i>__readonly__</i>	(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>
<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
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>TXLBPCKTS</i>	(Optional) tx lb packets
<i>TXLBDROP</i>	(Optional) tx lb drops

<i>RXLBPCKTS</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>RXPCKTS</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>RXPCKTS</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
PORT_STRING	(Optional) port name
PORT_NO	(Optional) port number
UP_DOWN_CNTR	(Optional) up-down counter
UP_STRING	(Optional) up
UP_TIME	(Optional) up time
UP_REFTIME	(Optional) up from
DOWN_STRING	(Optional) down string
DOWN_TIME	(Optional) down time
DOWN_REFTIME	(Optional) down from
TABLE_VFCPORTSTATE	(Optional) vfc port state change history
PORT_STRING	(Optional) port name
PORT_NO	(Optional) port number
UP_DOWN_CNTR	(Optional) up-down counter
UP_STRING	(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_VFCPOPORSTATE	(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
SOCKET	(Optional) socket
ADDRESS	(Optional) address
REF	(Optional) ref
VSAN	(Optional) vsan
D_ID	(Optional) d_id
MASK	(Optional) mask
FL	(Optional) fl
ST	(Optional) st
IFINDEX	(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
<i>VSAN</i>	(Optional) vsan
<i>X_ID</i>	(Optional) xid
<i>E_D_TOV</i>	(Optional) e_d_tov
<i>R_A_TOV</i>	(Optional) r_a_tov
<i>WWN</i>	(Optional) wwn
<i>IOP_MODE</i>	(Optional) iop_mode

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
<i>__readonly__</i>	(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)
TABLE_brief	(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
<i>__readonly__</i>	(Optional)
<i>operation_status</i>	(Optional) run-time information about fips
<i>o_status</i>	(Optional) operational status of fips
<i>mode_state</i>	(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> ] [ <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>flow-start</i>	(Optional) Flow Start Time
<i>flow-end</i>	(Optional) Flow End Time

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 glbl-pkt-cnt

show flow glbl-pkt-cnt

Syntax Description

show	Show running system information
flow	Show NetFlow information
glbl-pkt-cnt	Show global packet count

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 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	(Optional) L2 collection schemes
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 sw-monitor

```
show flow sw-monitor [ name ] [ <monitorname> [ cache [ detailed ] ] ]
```

Syntax Description

show	Show running system information
flow	Show NetFlow information
sw-monitor	Show Monitor Configuration
name	(Optional) Show a specific Flow Monitor
<i>monitorname</i>	(Optional) Specify a monitor
cache	(Optional) Flow monitor cache contents
detailed	(Optional) Show the entire cache contents

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 forwarding adjacency

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] adjacency [ mpls ] [ lisp
] [ nve ] [ <aif> ] [ <anh> ] [ detail | stats | platform ] [ module <module> ] [ __readonly__ [ <adj-count> ] [
TABLE_adj { <fec> <nexthop> <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
ip	(Optional) ipv4
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
<u>__readonly__</u>	(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>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 bypass-hardware

show forwarding bypass-hardware [module <module>]

Syntax Description

show	
forwarding	fib information
bypass-hardware	bypass hardware
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show forwarding capture

```
show forwarding capture [ module <module> ] [ __readonly__ <type><len><data> ]
```

Syntax Description

show	
forwarding	display fib information
capture	display capture buffer
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)

Command Mode

- /exec

show forwarding dvif primary

show forwarding dvif primary

Syntax Description

show	show
forwarding	forwarding
dvif	simulate dvif region role change
primary	role has become primary

Command Mode

- /exec

show forwarding dvif secondary

show forwarding dvif secondary

Syntax Description

show	show
forwarding	forwarding
dvif	simulate dvif region role change
secondary	role has become secondary

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
partial	(Optional) Show partially installed ECMPs
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(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>ecmppartial</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_activepath { [ <ap_nh> ] [ <ap_v6nh> ] [ <ap_rnh_len> ] [ <ap_nh_ypn_label> ] [ <ap_rnh_table_id>
] [ <ap_nh_weight> } ] ] [ <backuppath_hdr> ] [ TABLE_backuppath { [ <bp_nh> ] [ <bp_v6nh> ] [
<bp_nh_ypn_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> ] ] ] ]
```

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_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

Command Mode

- /exec

show forwarding file-log disable

show forwarding file-log disable

Syntax Description

show	show
forwarding	forwarding
file-log	logging to tmp file
disable	disable

Command Mode

- /exec

show forwarding file-log enable

show forwarding file-log enable

Syntax Description

show	show
forwarding	forwarding
file-log	logging to tmp file
enable	enable

Command Mode

- /exec

show forwarding interfaces

```
show forwarding interfaces [ module <module> ] [ __readonly__ <intf> <v4adjcnt> <v6adjcnt> <rpfmode>
<mac> ]
```

Syntax Description

show	
forwarding	fib information
interfaces	show fib interface info
__readonly__	(Optional)
<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>rpfmode</i>	(Optional) uRPF mode

Command Mode

- /exec

show forwarding ipv6 adjacency

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 adjacency [ mpls ] [ <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> ] [ <rwinf> ] [ <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
<i>aif</i>	(Optional) adjacency output interface
detail	(Optional) detail
stats	(Optional) adjacency statistics
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(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 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> <num_routes> <num_starg_routes> <num_sg_routes> <num_gprefix_routes>
<num_prefix_insert_fail> <num_groups> <num_sources> <src_len> <grp_len> <df_ordinal> <rpffif> <address>
<flag> <route_pkts> <route_bytes> ]
```

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	(Optional) display info per vpn-id
<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>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_prefix_insert_fail</i>	(Optional) Prefix insert fail count
<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>address</i>	(Optional) Ipv6 address string
<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>flag</i>	(Optional) Route type flag
<i>route_pkts</i>	(Optional) Route packet count
<i>route_bytes</i>	(Optional) Route bytes

Command Mode

- /exec

show forwarding ipv6 pss route

show forwarding [vrf { <vrf-name> | <vrf-known-name> } | table <table_id>] ipv6 pss route [module <module>]

Syntax Description

show	show
forwarding	forwarding
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
ipv6	ipv6
pss	display info from pss
route	route
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show forwarding ipv6 route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> ] ipv6 { route | rnhdb
} [ recursive ] [ detail | summary | platform | partial | <prefix> [ longer-prefixes ] [ detail | platform ] | <address>
[ detail | platform ] | interface <interface> | next-hop <n timer> | attached | unresolved | adjacency { <aif> <anh>
| drop | glean | punt } ] [ max-display-count <display_count> ] [ module <module> | vrf { <vrf-name> |
<vrf-known-name> | <vrf-all> } ] + [ __readonly__ [ TABLE_vrf { [ <vrfname> ] [ <tblname> ] [ <tableid>
] [ <prefix_count> ] [ TABLE_prefix { [ <prfx> ] [ TABLE_path { [ <nexthop> | <special> ] [ <intf> ] [
<route_count> ] [ <path_count> ] [ <mask_length> ] [ <routes_per_mask> ] } ] [ <hw_handle> ] [ <flags> ]
[ <holder> ] [ <nxt_obj_type> ] [ <hw_idx_v6adj> ] [ <cmn-idx> ] [ <lif> ] [ <buf-idx> ] } } } ] ]
```

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
ipv6	ipv6
route	display IP routing table
platform	(Optional) one command to show pi and pd info together
rnhdb	rnhdb
recursive	(Optional) display routes with recursive next hops
detail	(Optional) show detailed information about the routes
summary	(Optional) display route counts
partial	(Optional) display routes with partial ECMPs
longer-prefixes	(Optional) display longer prefixes
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
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
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
max-display-count	(Optional) displays max # of routes
<i>display_count</i>	(Optional) count
__readonly__	(Optional)
TABLE_vrf	(Optional) vrf table
<i>vrfname</i>	(Optional) VRF name
<i>tblname</i>	(Optional) table name
<i>tableid</i>	(Optional) table id
<i>prefix_count</i>	(Optional) total number of prefix in VRF
TABLE_prefix	(Optional) all xml prefix entries
<i>px</i>	(Optional) ipv6 prefix
TABLE_path	(Optional) path table
<i>nexthop</i>	(Optional) next hop address
<i>special</i>	(Optional) special adjacencies
<i>intf</i>	(Optional) output interface
<i>hw_handle</i>	(Optional) hw handle
<i>flags</i>	(Optional) flags
<i>holder</i>	(Optional) holder
<i>nxt_obj_type</i>	(Optional) next obj type
<i>hw_idx_v6adj</i>	(Optional) v6 adj hw idx
<i>cmn-idx</i>	(Optional) cmn idx
<i>lif</i>	(Optional) lif

<i>buf-idx</i>	(Optional) buf idx
<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 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__ <epoch> <resource_id> <dest_index>
<hw_handle> <dmac> <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)
<i>resource_id</i>	(Optional) Resource Identifier
<i>dest_index</i>	(Optional) Destination Index Identifier
<i>epoch</i>	(Optional) Epoch number
<i>hw_handle</i>	(Optional) Hardware Handle
<i>dmac</i>	(Optional) Destination MAC address
<i>text</i>	(Optional) String
<i>value</i>	(Optional) Value

Command Mode

- /exec

show forwarding l2vpn ipv6 multicast route

```
show forwarding l2vpn ipv6 multicast route [ [ vlan <vlan-id> ] ] [ softwarebd <software-bd> ] [ module
<module> ]
```

Syntax Description

show	show
forwarding	forwarding
l2vpn	Layer 2 VPN
ipv6	ipv6
multicast	Multicast IPv6 information
route	Mcast route information
vlan	(Optional) vlan
softwarebd	(Optional) Software Bridge Domain
<i>vlan-id</i>	(Optional) vlan id
<i>software-bd</i>	(Optional) Software bd
module	(Optional) slot
<i>module</i>	(Optional) slot number

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 multicast outgoing-interface-list

show forwarding l2vpn multicast outgoing-interface-list [index <oiflist-index>]

Syntax Description

show	
forwarding	Forwarding information
l2vpn	Layer 2 VPN
multicast	Multicast IPv4 information
outgoing-interface-list	show outgoing interface list info
index	(Optional) oiflist index
<i>oiflist-index</i>	(Optional) oiflist-index

Command Mode

- /exec

show forwarding l2vpn multicast route

```
show forwarding l2vpn multicast route [ [ vlan <vlan-id> ] ] [ softwarebd <software-bd> ] [ module <module> ]
```

Syntax Description

show	show
forwarding	forwarding
l2vpn	Layer 2 VPN
multicast	Multicast IPv4 information
route	Meast route information
vlan	(Optional) vlan
softwarebd	(Optional) Software Bridge Domain
<i>vlan-id</i>	(Optional) vlan id
<i>software-bd</i>	(Optional) Software bd
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show forwarding l2vpn service vpls

```
show forwarding l2vpn service vpls { { service_id { <service_id> | all } } | { vlan { <vlan_id> | vlan_all } }
| { peer { { interface <intf-name> | next-hop <addr> | peer_all } } } } [ module <module> ] [ detail ]
```

Syntax Description

show	show
forwarding	display fib information
l2vpn	l2vpn forwarding
service	Services
vpls	Vpls
service_id	Specifies a service_id
<i>service_id</i>	service ID
all	all VPLS services
vlan	VLAN info
<i>vlan_id</i>	VLAN number
vlan_all	all VPLS services
peer	define the peer
peer_all	all peers
interface	PW interface for peer
<i>intf-name</i>	interface name
next-hop	Next hop to reach the peer
<i>addr</i>	IP address
module	(Optional) slot
<i>module</i>	(Optional) slot number
detail	(Optional) Display detailed information

Command Mode

- /exec

show forwarding l2vpn service xconnect

```
show forwarding l2vpn service xconnect { service_id { <service_id> | all } } [ module <module> ] [ detail ]
```

Syntax Description

show	show
forwarding	display fib information
l2vpn	l2vpn forwarding
service	Services
xconnect	xconnect or VPWS
service_id	Specify a service_id in hex
<i>service_id</i>	service ID
all	All service-id will be displayed
module	(Optional) slot
<i>module</i>	(Optional) slot number
detail	(Optional) Display detailed information

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> [ <out-table-id> ] [ <fec> ] [ <out-ip> ] [ <out-intf> ] [ <out-label> ] [ <out-op> ] [ <hh> ] [ <ref-count> ] [ <in-pkts> ] [ <in-bytes> ] [ <out-pkts> ] [ <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	(Optional) label space
<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	(Optional) Display implicit label
platform	(Optional) Display platform information
__readonly__	(Optional)
TABLE_mpls	(Optional)
<i>label</i>	(Optional) mpls label value
<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>out-pkts</i>	(Optional) Label Output Packet Stats
<i>out-bytes</i>	(Optional) Label Output Bytes Stats

Command Mode

- /exec

show forwarding mpls aggregate

```
show forwarding mpls aggregate [ label { <label-id> | all } ] [ detail ] [ module <module> ] [ __readonly__
[ { TABLE_label_info <label> <id> [ <sw_index> } ] ] ]
```

Syntax Description

show	
forwarding	display fib information
mpls	mpls forwarding
aggregate	aggregate label
label	(Optional) label
<i>label-id</i>	(Optional) label-id
all	(Optional) all
detail	(Optional) detail
module	(Optional) slot
<i>module</i>	(Optional) slot number
__readonly__	(Optional)
TABLE_label_info	(Optional)
<i>label</i>	(Optional)
<i>id</i>	(Optional)
<i>sw_index</i>	(Optional)

Command Mode

- /exec

show forwarding mpls cbts

```
show forwarding mpls cbts [ module <module> ] [ __readonly__ [ { TABLE_cbts <label> [ <out-intf> ] [ <out-table-id> ] [ <out-ip> ] [ <out-op> ] } ] ]
```

Syntax Description

show	show
forwarding	forwarding
mpls	mpls forwarding
cbts	cbts labels
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
TABLE_cbts	(Optional)
<i>label</i>	(Optional) mpls label value
<i>out-intf</i>	(Optional) Output Interface
<i>out-table-id</i>	(Optional) Output table-id
<i>out-ip</i>	(Optional) Output Next Hop
<i>out-op</i>	(Optional) Output Label op

Command Mode

- /exec

show forwarding mpls drop-stats

show forwarding mpls drop-stats [platform | label0-fwd-stats] [__readonly__ <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)
<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> [ {
TABLE_ecmp_paths <out-intf> <out-ip> <label_info> <hh> <refcount> } ] } ] ] ]
```

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
<i>__readonly__</i>	(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
TABLE_ecmp_paths	(Optional)
<i>out-intf</i>	(Optional) Output Interface
<i>out-ip</i>	(Optional) Output Next Hop
<i>label_info</i>	(Optional) rew info
<i>hh</i>	(Optional) Hardware Handle
<i>refcount</i>	(Optional) refcount

Command Mode

- /exec

show forwarding mpls summary

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

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>total_deagg_labels</i>	(Optional) total deagg labels

Command Mode

- /exec

show forwarding mpls te

```
show forwarding mpls te [ <te_if> ] [ detail ] [ module <module> ] [ __readonly__ { TABLE_te <id> [
<midpoint_source> ] [ <dest> ] [ <tunnel_id> ] [ <ext_tunnel_id> ] [ <lisp_id> ] [ <adjacency> ] [ <hh> ] [
<lfib_adj> ] [ <adj_refcount> ] [ <obj_refcount> ] [ <te_state> ] [ <next_hop> ] [ <next_if_index> ] [
<op_label> ] [ <backup_tunnel> ] [ <adj_key_id> ] [ <fir_label> ] [ <local_label> ] [ <adj_count> ] [ <type>
] [ <out_if> ] [ <out_lbl> ] [ <backup_if> ] [ <backup_lbl> ] } }
```

Syntax Description

show	
forwarding	display fib information
mpls	mpls forwarding
te	Traffic Engineering
detail	(Optional) detail
module	(Optional) slot
<i>te_if</i>	(Optional) tunnel-te number
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
TABLE_te	(Optional)
<i>id</i>	(Optional) headend if index
<i>midpoint_source</i>	(Optional)
<i>dest</i>	(Optional)
<i>tunnel_id</i>	(Optional)
<i>ext_tunnel_id</i>	(Optional)
<i>lisp_id</i>	(Optional)
<i>adjacency</i>	(Optional)
<i>hh</i>	(Optional) HH
<i>lfib_adj</i>	(Optional) lfib adjacency is drop
<i>adj_refcount</i>	(Optional)
<i>obj_refcount</i>	(Optional)
<i>te_state</i>	(Optional)
<i>next_hop</i>	(Optional)

<i>next_if_index</i>	(Optional)
<i>op_label</i>	(Optional)
<i>backup_tunnel</i>	(Optional)
<i>adj_key_id</i>	(Optional)
<i>frr_label</i>	(Optional)
<i>local_label</i>	(Optional)
<i>adj_count</i>	(Optional) te related adj count
<i>type</i>	(Optional)
<i>out_if</i>	(Optional)
<i>out_lbl</i>	(Optional)
<i>backup_if</i>	(Optional)
<i>backup_lbl</i>	(Optional)

Command Mode

- /exec

show forwarding multicast-sr loopback interface

show forwarding multicast-sr loopback interface

Syntax Description

show	
forwarding	display fib information
multicast-sr	multicast service reflect information
interface	loopback interface
loopback	loopback interface

Command Mode

- /exec

show forwarding multicast outgoing-interface-list

```
show forwarding multicast outgoing-interface-list { L2 | L3 | vxlan-encap } [ platform ] [ module <module>
] [ <index> ] [ __readonly__ <refcount> <num_oif> <intf> <encap_id>
<slot><total_l2_oiflist><total_l3_oiflist><oiflist_idx> <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
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>num_oif</i>	(Optional) Number of outgoing interfaces
<i>intf</i>	(Optional) OIF name
<i>encap_id</i>	(Optional) encap_id

Command Mode

- /exec

show forwarding multicast route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | all } | table <table_id> ] [ ip | 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> <num_routes>
<num_starg_routes> <num_sg_routes> <num_gprefix_routes> <num_prefix_insert_fail> <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	
forwarding	Forwarding information
ip	(Optional) ipv4
ipv4	(Optional) ipv4
multicast	Multicast IPv4 information
route	Mcast route information
platform	(Optional) Platform Details
table	(Optional) display info per vpn-id
<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>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_prefix_insert_fail</i>	(Optional) Prefix insert fail count
<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 forwarding nve l2 ingress-replication-peers

```
show forwarding nve l2 ingress-replication-peers [ <peer_ip> ] + [ __readonly__ { TABLE_VLAN <vlan_id>
<plt_space> <peer> + } { TABLE_PSS_VLAN <vlan_pss_id> <VNI> <vtep> <peercnt> <pss_peer> +
<marked> + } ]
```

Syntax Description

show	show
forwarding	display fib information
nve	nve related info
l2	L2 info
ingress-replication-peers	ingress replication peer info
<i>peer_ip</i>	(Optional) show detailed info of a peer
<i>__readonly__</i>	(Optional)
TABLE_VLAN	(Optional) vlan peer ids table
<i>vlan_id</i>	(Optional) vlan id
<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
<i>VNI</i>	(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

Command Mode

- /exec

show forwarding nve l3 adjacency tunnel

```
show forwarding nve l3 adjacency tunnel <tunnel_id> [ bd <bd_id> | detail | module <num> | table <table_id>
] [ __readonly__ { print_header_output <header_output> } { print_mark_output <mark_output> } [ {
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>	tunnel_id
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)
print_header_output	(Optional) Header Output Format
<i>header_output</i>	(Optional) Print header output
print_mark_output	(Optional) highlight the header Format output
<i>mark_output</i>	(Optional) Mark header output
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

<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

Syntax Description

show	
forwarding	display fib information
nve	nve related info
l3	Layer 3
ecmp	nve ecmp info

Command Mode

- /exec

show forwarding nve l3 peers

```
show forwarding nve l3 peers [ peers <peer_id> | tunnel <tunnel_id> | detail | module <num> ] + [ __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>num</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

Syntax Description

show	show
forwarding	display fib information
nve	NVE related info
underlay-interfaces	underlay interfaces info

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 pss route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> } | table <table_id> ] [ ip | ipv4 ] pss route [ module <module> ]
```

Syntax Description

show	show
forwarding	forwarding
vrf	(Optional) display info per VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
table	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
ip	(Optional) ipv4
ipv4	(Optional) ipv4
pss	display info from pss
route	route
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show forwarding restart

show forwarding restart [module <module>]

Syntax Description

show	
forwarding	fib information
restart	restart fib
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

show forwarding route

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> ] [ ip | ipv4 ] { route
| rnhdb } [ recursive ] [ summary | detail | platform | partial | <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
ip	(Optional) ipv4
ipv4	(Optional) ipv4
route	display IP routing table
rnhdb	rnh-db
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

Command Mode

- /exec

show forwarding security group-tag

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> | vlan <vlan_id> ] [
ip | ipv4 ] security group-tag [ <addr> ] [ module <num> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all>
} ] + [ __readonly__ <header> <vrfname> <tid> <pfx-count> <ipa> <tag> <tv> <vid> ]
```

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 number
vlan	(Optional) vlan
<i>vlan_id</i>	(Optional) vlan number
ip	(Optional) ipv4
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
__readonly__	(Optional)
<i>header</i>	(Optional) header string
<i>vrfname</i>	(Optional) VRF name
<i>tid</i>	(Optional) table identifier
<i>num</i>	(Optional) module number
<i>pfx-count</i>	(Optional) total prefix count in VRF
<i>ipa</i>	(Optional) ip address
<i>tag</i>	(Optional) security group tag

<i>tv</i>	(Optional) sgt valid
<i>vid</i>	(Optional) vlan indentifier

Command Mode

- /exec

show forwarding security mac

```
show forwarding [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } | table <table_id> ] [ ip | ipv4 ] security
mac [ <addr> ] [ module <module> | vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] + [ __readonly__
<header> <vrfname> <tid> <pfx-count> <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	(Optional) display info per vpn-id
<i>table_id</i>	(Optional) table number
ip	(Optional) ipv4
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)
<i>header</i>	(Optional) header string
<i>vrfname</i>	(Optional) VRF name
<i>tid</i>	(Optional) table identifier
<i>pfx-count</i>	(Optional) total prefix count in VRF
<i>ipa</i>	(Optional) ip address
<i>mac</i>	(Optional) mac address
<i>p</i>	(Optional) 1 => ip->port binding
<i>m</i>	(Optional) 1 => ip->mac binding

<i>v</i>	(Optional) 1 => ip->vlan binding
<i>intf</i>	(Optional) ip->port interface

Command Mode

- /exec

show forwarding test on

show forwarding test { on | off } [module <module>]

Syntax Description

show	
forwarding	fib information
test	show test variable
on	set variable
off	reset variable
module	(Optional) slot
<i>module</i>	(Optional) slot number

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> ]
```

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)

Command Mode

- /exec

show fte event

```
show fte event [ name ] [ { <eventname> } ] [ __readonly__ <event> <description> <use_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)

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> ]
```

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)

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
__readonly__	(Optional)
<i>record</i>	(Optional)
<i>description</i>	(Optional)
<i>use_count</i>	(Optional)

Command Mode

- /exec



G Show Commands

- [show glbp](#), on page 490
- [show guestshell](#), on page 495

show glbp

```
show glbp [ vrf <vrf-name> ] [ interface <int-num> ] [ group <group-num> ] [ active | standby | disabled | init
| listen ] + [ __readonly__ <show_glbp_start> { TABLE_grp_detail <sg_nsf_state> <sg_print_nsf_state>
<sg_nsf_end> <sg_if_index> <sg_group_num> <sg_state> <sg_state_reason> <sg_state_count>
<sg_state_last_change> <sg_vip> <sg_vip_attr> <sg_num_vip_sec> { TABLE_grp_vip_sec <sg_vip_sec>
<sg_vip_sec_attr> } <sg_vip_sec_end> <sg_active_addr> <sg_cur_hello> <sg_cfg_hello> <sg_active_hello>
<sg_cur_hold> <sg_cfg_hold> <sg_active_hold> <sg_is_hello_timer_running> <sg_next_hello>
<sg_cur_redirect_time> <sg_cfg_redirect_time> <sg_active_redirect_time> <sg_cur_sec_holdtime>
<sg_cfg_sec_holdtime> <sg_active_sec_holdtime> <sg_cfg_ext_holdtime> <sg_timer_end>
<sg_auth_data_type> <sg_auth_data> <sg_preempt> <sg_preempt_min_delay>
<sg_is_preempt_timer_running> <sg_preempt_ts> <sg_delay_end> <sg_active_priority> <sg_active_timer>
<sg_standby_addr> <sg_standby_priority> <sg_standby_timer> <sg_router_end> <sg_grp_priority>
<sg_grp_priority_attr> <sg_weighting> <sg_weighting_attr> <sg_weighting_satisfied> <sg_weighting_max>
<sg_weighting_lower> <sg_weighting_upper> <sg_track_object> <sg_track_state> <sg_track_decrement>
<sg_weighting_end> <sg_load_bal> <sg_red_name> <sg_mem_count> <sg_mem_start> {
TABLE_grp_members <sg_mem_local_mac> <sg_mem_local_ip> <sg_mem_mac> <sg_mem_ip>
<sg_is_mem_local> <sg_is_mem_authenticated> } <sg_mem_end> <sg_all_mem_end> <sg_fwd_count>
<sg_active_fwd_count> { <sg_fwd_start> { TABLE_fwd_detail <sg_fwd_num> <sg_fwd_state>
<sg_fwd_state_change_count> <sg_fwd_last_state_change> <sg_fwd_mac> <sg_fwd_mac_type>
<sg_fwd_cfg_mac> <sg_fwd_owner> <sg_fwd_redirect> <sg_fwd_redirect_timer> <sg_fwd_is_sec_tmr_run>
<sg_fwd_sec_timer> <sg_fwd_ttl> <sg_fwd_ttr> <sg_fwd_pre> <sg_fwd_pre_min_delay>
<sg_fwd_is_pre_min_run> <sg_fwd_pre_min_val> <sg_fwd_active_router> <sg_fwd_active_router_attr>
<sg_fwd_weighting> <sg_fwd_active_addr> <sg_fwd_active_prio> <sg_fwd_active_prio_attr>
<sg_fwd_active_prio_weight_attr> <sg_fwd_active_timer_val> <sg_fwd_arp_replies> <sg_fwd_redirection>
<sg_fwd_preempt> } <sg_fwd_end> <sg_all_fwd_end> } } <show_glbp_end> ]
```

Syntax Description

show	Show running system information
glbp	Show GLBP
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
interface	(Optional) Interface
<i>int-num</i>	(Optional) Interface type and number
group	(Optional) Group number
<i>group-num</i>	(Optional) Group number
active	(Optional) Groups in active state
standby	(Optional) Groups in standby state
disabled	(Optional) Groups in disabled state
init	(Optional) Groups in init state

<i>listen</i>	(Optional) Groups in listen state
<i>__readonly__</i>	(Optional) Read only
<i>show_glbp_start</i>	(Optional) show glbp start
<i>TABLE_grp_detail</i>	(Optional) Group table detail
<i>sg_nsf_state</i>	(Optional) show nsf state
<i>sg_print_nsf_state</i>	(Optional) Print NSF state
<i>sg_nsf_end</i>	(Optional) End of NSF details
<i>sg_if_index</i>	(Optional) Interface type and number
<i>sg_group_num</i>	(Optional) Group number
<i>sg_state</i>	(Optional) glbp state
<i>sg_state_reason</i>	(Optional) Reason
<i>sg_state_count</i>	(Optional) Number of state changes
<i>sg_state_last_change</i>	(Optional) Time of last state change
<i>sg_vip</i>	(Optional) Virtual IP address
<i>sg_vip_attr</i>	(Optional) Virtual IP address attribute
<i>sg_num_vip_sec</i>	(Optional) Number of Secondary virtual IP address
<i>TABLE_grp_vip_sec</i>	(Optional) Group secondary ip address
<i>sg_vip_sec</i>	(Optional) Secondary virtual IP address
<i>sg_vip_sec_attr</i>	(Optional) Secondary Virtual IP address attribute
<i>sg_vip_sec_end</i>	(Optional) End of Secondary Virtual IP addresses
<i>sg_active_addr</i>	(Optional) Active IP address
<i>sg_cur_hello</i>	(Optional) Current Hello Time
<i>sg_cfg_hello</i>	(Optional) Configured Hello Time
<i>sg_active_hello</i>	(Optional) Active Hello Time
<i>sg_cur_hold</i>	(Optional) Current Hold Time
<i>sg_cfg_hold</i>	(Optional) Configured Hold Time
<i>sg_active_hold</i>	(Optional) Active Hold Time
<i>sg_is_hello_timer_running</i>	(Optional) Hello Timer
<i>sg_next_hello</i>	(Optional) Time for next hello

<i>sg_cur_redirect_time</i>	(Optional) Current redirect time
<i>sg_cfg_redirect_time</i>	(Optional) Configured redirect time
<i>sg_active_redirect_time</i>	(Optional) Active redirect time
<i>sg_cur_sec_holdtime</i>	(Optional) Current secondary hold time
<i>sg_cfg_sec_holdtime</i>	(Optional) Configured secondary hold time
<i>sg_active_sec_holdtime</i>	(Optional) Active secondary hold time
<i>sg_cfg_ext_holdtime</i>	(Optional) Configured Extended hold time
<i>sg_timer_end</i>	(Optional) End of GLBP Timer values
<i>sg_auth_data_type</i>	(Optional) Authentication data type
<i>sg_auth_data</i>	(Optional) Authentication data
<i>sg_preempt</i>	(Optional) Preemption enabled
<i>sg_preempt_min_delay</i>	(Optional) Preemption min delay
<i>sg_is_preempt_timer_running</i>	(Optional) Preemption timer running
<i>sg_preempt_ts</i>	(Optional) Preemption timestamp
<i>sg_delay_end</i>	(Optional) End of delay values
<i>sg_active_priority</i>	(Optional) Active router priority
<i>sg_active_timer</i>	(Optional) Active timer value
<i>sg_standby_addr</i>	(Optional) Standby address
<i>sg_standby_priority</i>	(Optional) Standby priority
<i>sg_standby_timer</i>	(Optional) Standby timer value
<i>sg_router_end</i>	(Optional) End of Routers
<i>sg_grp_priority</i>	(Optional) Group priority
<i>sg_grp_priority_attr</i>	(Optional) Group priority attribute
<i>sg_weighting</i>	(Optional) Weighting
<i>sg_weighting_attr</i>	(Optional) Weighting attribute
<i>sg_weighting_satisfied</i>	(Optional) Weighting satisfied
<i>sg_weighting_max</i>	(Optional) Weighting max
<i>sg_weighting_lower</i>	(Optional) Weighting lower
<i>sg_weighting_upper</i>	(Optional) Weighting upper

<i>sg_track_object</i>	(Optional) Track
<i>sg_track_state</i>	(Optional) Track state
<i>sg_track_decrement</i>	(Optional) Track decrement
<i>sg_weighting_end</i>	(Optional) End of weighting
<i>sg_load_bal</i>	(Optional) Load balancing
<i>sg_red_name</i>	(Optional) IP redundancy name
<i>sg_mem_count</i>	(Optional) Membership count
<i>sg_mem_start</i>	(Optional) Start of membership attributes
TABLE_grp_members	(Optional) Group members
<i>sg_mem_local_mac</i>	(Optional) Member's local mac address
<i>sg_mem_local_ip</i>	(Optional) Member's local ip address
<i>sg_mem_mac</i>	(Optional) Member's mac address
<i>sg_mem_ip</i>	(Optional) Member's ip address
<i>sg_is_mem_local</i>	(Optional) Local
<i>sg_is_mem_authenticated</i>	(Optional) Is Member authenticated
<i>sg_mem_end</i>	(Optional) End of membership attributes
<i>sg_all_mem_end</i>	(Optional) End of all members
<i>sg_fwd_count</i>	(Optional) Number of forwarders in the group
<i>sg_active_fwd_count</i>	(Optional) Number of active forwarders in group
<i>sg_fwd_start</i>	(Optional) Forwarder Start attribute
TABLE_fwd_detail	(Optional) Forwarder table detail
<i>sg_fwd_num</i>	(Optional) Forwarder Number
<i>sg_fwd_state</i>	(Optional) Forwarder State
<i>sg_fwd_state_change_count</i>	(Optional) Forwarder State Change count
<i>sg_fwd_last_state_change</i>	(Optional) Time of last State Change
<i>sg_fwd_mac</i>	(Optional) Forwarder MAC address
<i>sg_fwd_mac_type</i>	(Optional) Forwarder MAC address type
<i>sg_fwd_cfg_mac</i>	(Optional) Configured Forwarder MAC address
<i>sg_fwd_owner</i>	(Optional) Forwarder owner

<i>sg_fwd_redirect</i>	(Optional) Forwarder redirection enabled
<i>sg_fwd_redirect_timer</i>	(Optional) Forwarder redirection timer
<i>sg_fwd_is_sec_tmr_run</i>	(Optional) Is Forwarder secondary timer running
<i>sg_fwd_sec_timer</i>	(Optional) Forwarder secondary timer
<i>sg_fwd_ttl</i>	(Optional) Forwarder ttl
<i>sg_fwd_ttr</i>	(Optional) Forwarder ttr
<i>sg_fwd_pre</i>	(Optional) Forwarder preemption enabled
<i>sg_fwd_pre_min_delay</i>	(Optional) Forwarder preempt min delay
<i>sg_fwd_is_pre_min_run</i>	(Optional) Is Forwarder preempt min running
<i>sg_fwd_pre_min_val</i>	(Optional) Forwarder preempt min value
<i>sg_fwd_active_router</i>	(Optional) Forwarder active router address
<i>sg_fwd_active_router_attr</i>	(Optional) Forwarder active router attribute
<i>sg_fwd_weighting</i>	(Optional) Forwarder weighting
<i>sg_fwd_active_addr</i>	(Optional) Forwarder active address
<i>sg_fwd_active_prio</i>	(Optional) Forwarder active priority
<i>sg_fwd_active_prio_attr</i>	(Optional) Forwarder priority attribute
<i>sg_fwd_active_prio_weight_attr</i>	(Optional) Forwarder priority weight attribute
<i>sg_fwd_active_timer_val</i>	(Optional) Forwarder active timer val
<i>sg_fwd_arp_replies</i>	(Optional) Forwarder arp replies
<i>sg_fwd_redirection</i>	(Optional) Forwarder redirection string
<i>sg_fwd_preempt</i>	(Optional) Forwarder preemption string
<i>sg_fwd_end</i>	(Optional) Forwarder End attribute
<i>sg_all_fwd_end</i>	(Optional) All Forwarders End attribute
<i>show_glbp_end</i>	(Optional) End of Group

Command Mode

- /exec

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



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show hardware

```
show hardware [ __readonly__ <header_str> <bios_ver_str> [ <loader_ver_str> ] <kickstart_ver_str> [
<sys_ver_str> ] <bios_cmpl_time> <kick_file_name> <kick_cmpl_time> <kick_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_usec> ] [ <rr_ctime> ] <rr_reason> [
<rr_sys_ver> ] [ <rr_service> ] [ <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>sys_ver_str</i>	(Optional)
<i>bios_cmpl_time</i>	(Optional)
<i>kick_file_name</i>	(Optional)
<i>kick_cmpl_time</i>	(Optional)
<i>kick_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_usecs</i>	(Optional)
<i>rr_ctime</i>	(Optional)
<i>rr_reason</i>	(Optional)
<i>rr_sys_ver</i>	(Optional)
<i>rr_service</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_rx_packets> <eobc_rx_dropped>
<eobc_rx_pps> <eobc_tx_packets> <eobc_tx_dropped> <eobc_tx_pps> } ]
```

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_rx_packets</i>	(Optional)
<i>eobc_rx_dropped</i>	(Optional)
<i>eobc_rx_pps</i>	(Optional)
<i>eobc_tx_packets</i>	(Optional)
<i>eobc_tx_dropped</i>	(Optional)
<i>eobc_tx_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_module_drops <module_drops> <tx_drops>
<rx_drops> <max_tx_port> <max_rx_port> } { TABLE_module_buffers <module_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>module_drops</i>	(Optional) Module number for Tx/Rx drops
TABLE_module_drops	(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>module_buffers</i>	(Optional) Module number for Tx/Rx buffers
TABLE_module_buffers	(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)
<i>TABLE_lcinfo</i>	(Optional)
<i>mod_num</i>	(Optional)
<i>model_num</i>	(Optional)
<i>part_num</i>	(Optional)
<i>serial_num</i>	(Optional)
<i>TABLE_xbarinfo</i>	(Optional)
<i>mod_num1</i>	(Optional)
<i>model_num1</i>	(Optional)
<i>part_num1</i>	(Optional)
<i>serial_num1</i>	(Optional)
<i>TABLE_flash_nvram_info</i>	(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_module_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)
TABLE_feature_support	(Optional) show features supported
<i>feature_name</i>	(Optional) feature name
TABLE_module_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 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 ipmac

```
show hardware flow ipmac [ { { 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
ipmac	IPv4+MAC
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 buffer monitor show hardware profile buffer monitor internal

```
show hardware profile buffer monitor [ interface <intf-num> | buffer-block <buf-blk> | multicast <mcst-blk>
] { brief | detail [ last <samples-per-intf> ] | sampling } [ module <module> ] | show hardware profile buffer
monitor { internal-raw | summary [ module <module> ] } [ __readonly__ <cmd_name> <cmd_issue_time>
[ TABLE_summary <summary_util_name> <summary_1sec_util> <summary_5sec_util>
<summary_60sec_util> <summary_5min_util> <summary_1hr_util> <summary_total_buffer>
<summary_class_threshold> ] [ TABLE_ucst_hdr <ucst_hdr_util_name> <ucst_hdr_1sec_util>
<ucst_hdr_5sec_util> <ucst_hdr_60sec_util> <ucst_hdr_5min_util> <ucst_hdr_1hr_util>
<ucst_hdr_total_buffer> <ucst_hdr_class_threshold> ] [ TABLE_brief_entry <brief_util_name>
<brief_1sec_util> <brief_5sec_util> <brief_60sec_util> <brief_5min_util> <brief_1hr_util> ] [
TABLE_mcst_hdr <mcst_hdr_util_name> <mcst_hdr_1sec_util> <mcst_hdr_5sec_util> <mcst_hdr_60sec_util>
<mcst_hdr_5min_util> <mcst_hdr_1hr_util> <mcst_hdr_total_buffer> <mcst_hdr_class_threshold> ] [
TABLE_detail_entry <detail_util_name> <detail_util_state> <time_stamp> <384k_util> <768k_util>
<1152k_util> <1536k_util> <1920k_util> <2304k_util> <2688k_util> <3072k_util> <3456k_util>
<3840k_util> <4224k_util> <4608k_util> <4992k_util> <5376k_util> <5760k_util> <6144k_util> ] [
TABLE_sampling <sampling_interval> ] ]
```

Syntax Description

show	Show running system information
hardware	Show hardware profile buffer monitor data
profile	profile buffer monitor data
buffer	buffer
monitor	buffer monitor
interface	(Optional) show buffer monitoring data of an interface
<i>intf-num</i>	(Optional) show buffer monitoring data of an interface
buffer-block	(Optional) buffer block
<i>buf-blk</i>	(Optional) buffer block
multicast	(Optional) multicast buffer block
<i>mcst-blk</i>	(Optional) multicast buffer block
brief	show brief buffer monitor data
detail	show detail buffer monitor data
internal-raw	show buffer monitoring internal raw data
summary	show summary buffer monitor data
sampling	show sampling interval

last	(Optional) show detail buffer monitor data for last N intervals
<i>samples-per-intf</i>	(Optional) number of samples per interface, max 300
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
<u>__readonly__</u>	(Optional) Read Only
<i>cmd_name</i>	(Optional) Command Name
<i>cmd_issue_time</i>	(Optional) Command Issue Time
TABLE_summary	(Optional) Table Summary
<i>summary_util_name</i>	(Optional) Names of Summary Utilization
<i>summary_1sec_util</i>	(Optional) Summary 1sec Buffer Utilization
<i>summary_5sec_util</i>	(Optional) Summary 5sec Buffer Utilization
<i>summary_60sec_util</i>	(Optional) Summary 60sec Buffer Utilization
<i>summary_5min_util</i>	(Optional) Summary 5min Buffer Utilization
<i>summary_1hr_util</i>	(Optional) Summary 1hour Buffer Utilization
<i>summary_total_buffer</i>	(Optional) Summary Total Buffer Available
<i>summary_class_threshold</i>	(Optional) Summary Buffer Threshold of Default Class
TABLE_ucst_hdr	(Optional) Table Ucst Header
<i>ucst_hdr_util_name</i>	(Optional) Names of Utilization
<i>ucst_hdr_1sec_util</i>	(Optional) Ucst 1sec Buffer Utilization
<i>ucst_hdr_5sec_util</i>	(Optional) Ucst 5sec Buffer Utilization
<i>ucst_hdr_60sec_util</i>	(Optional) Ucst 60sec Buffer Utilization
<i>ucst_hdr_5min_util</i>	(Optional) Ucst 5min Buffer Utilization
<i>ucst_hdr_1hr_util</i>	(Optional) Ucst 1hour Buffer Utilization
<i>ucst_hdr_total_buffer</i>	(Optional) Ucst Total Buffer Available
<i>ucst_hdr_class_threshold</i>	(Optional) Ucst Buffer Threshold of Default Class
TABLE_brief_entry	(Optional) Table Brief Entry
<i>brief_util_name</i>	(Optional) Brief Names of Utilization
<i>brief_1sec_util</i>	(Optional) Brief 1sec Buffer Utilization
<i>brief_5sec_util</i>	(Optional) Brief 5sec Buffer Utilization

<i>brief_60sec_util</i>	(Optional) Brief 60sec Buffer Utilization
<i>brief_5min_util</i>	(Optional) Brief 5min Buffer Utilization
<i>brief_1hr_util</i>	(Optional) Brief 1hour Buffer Utilization
TABLE_mcst_hdr	(Optional) Table Mcst Header
<i>mcst_hdr_util_name</i>	(Optional) Mcst Buffer Block Names of Utilization
<i>mcst_hdr_1sec_util</i>	(Optional) Mcst Buffer Block 1sec Buffer Utilization
<i>mcst_hdr_5sec_util</i>	(Optional) Mcst Buffer Block 5sec Buffer Utilization
<i>mcst_hdr_60sec_util</i>	(Optional) Mcst Buffer Block 60sec Buffer Utilization
<i>mcst_hdr_5min_util</i>	(Optional) Mcst Buffer Block 5min Buffer Utilization
<i>mcst_hdr_1hr_util</i>	(Optional) Mcst Buffer Block 1hour Buffer Utilization
<i>mcst_hdr_total_buffer</i>	(Optional) Mcst Total Buffer Available
<i>mcst_hdr_class_threshold</i>	(Optional) Mcst Buffer Threshold of Default Class
TABLE_detail_entry	(Optional) Table Detail Entry
<i>detail_util_name</i>	(Optional) Detail Names of Utilization
<i>detail_util_state</i>	(Optional) Detail State of Utilization
<i>time_stamp</i>	(Optional) Time Stamp of Entry
<i>384k_util</i>	(Optional) 384KB Buffer Utilization
<i>768k_util</i>	(Optional) 768KB Buffer Utilization
<i>1152k_util</i>	(Optional) 1152KB Buffer Utilization
<i>1536k_util</i>	(Optional) 1536KB Buffer Utilization
<i>1920k_util</i>	(Optional) 1920KB Buffer Utilization
<i>2304k_util</i>	(Optional) 2304KB Buffer Utilization
<i>2688k_util</i>	(Optional) 2688KB Buffer Utilization
<i>3072k_util</i>	(Optional) 3072KB Buffer Utilization
<i>3456k_util</i>	(Optional) 3456KB Buffer Utilization
<i>3840k_util</i>	(Optional) 3840KB Buffer Utilization
<i>4224k_util</i>	(Optional) 4224KB Buffer Utilization
<i>4608k_util</i>	(Optional) 4608KB Buffer Utilization
<i>4992k_util</i>	(Optional) 4992KB Buffer Utilization

show hardware profile buffer monitor show hardware profile buffer monitor internal

<i>5376k_util</i>	(Optional) 5376KB Buffer Utilization
<i>5760k_util</i>	(Optional) 5760KB Buffer Utilization
<i>6144k_util</i>	(Optional) 6144KB Buffer Utilization
TABLE_sampling	(Optional) Table Sampling
<i>sampling_interval</i>	(Optional) Sampling Interval

Command Mode

- /exec

show hardware profile forwarding-mode

show hardware profile forwarding-mode

Syntax Description

show	Show running system information
hardware	Show hardware profile forwarding-mode
profile	profile forwarding-mode
forwarding-mode	forwarding-mode

Command Mode

- /exec

show hardware profile latency monitor sampling show hardware profile latency monitor

```
show hardware profile latency monitor { sampling | threshold } [ module <module> ] | show hardware profile
latency monitor { { summary [ detail | clear-timestamp ] } [ interface <intf-num> ] | { summary [ brief | sort
| top ] } | { raw [ verbose ] } [ module <module> ] } [ __readonly__ <cmd_issue_time> <device_instance> [
TABLE_sampling <sampling_interval> ] [ TABLE_threshold <threshold_avg> <threshold_max> ] [
TABLE_summary <summary_egress_port> <summary_sampling_interval> <summary_min_latency>
<summary_max_latency> <summary_avg_latency> <summary_std_deviation> ] [ TABLE_detail
<detail_timestamp> <detail_ifindex> <detail_fcmt> <detail_min_latency> <detail_max_latency>
<detail_avg_latency> ] [ TABLE_brief <brief_egress_port> <brief_avg_latency> ] ]
```

Syntax Description

show	Show running system information
hardware	Show hardware profile latency monitor data
profile	profile latency monitor data
latency	latency
monitor	latency monitor
sampling	show sampling interval
threshold	show threshold configured
summary	show switch-wide latency monitor data
detail	(Optional) show switch-wide or per-interface raw latency monitor data
clear-timestamp	(Optional) show switch-wide or per-interface latency clear timestamp
interface	(Optional) show per-interface latency monitor data
<i>intf-num</i>	(Optional) show per-interface latency monitor data
brief	(Optional) show switch-wide average latency
sort	(Optional) show switch-wide average latency in descending order
top	(Optional) show switch-wide top ten average latency
raw	show switch-wide or per-interface raw latency monitor data
verbose	(Optional) show switch-wide or per-interface raw latency monitor data
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
__readonly__	(Optional) Read only

<i>cmd_issue_time</i>	(Optional) Command issue time
<i>device_instance</i>	(Optional) Device instance
TABLE_sampling	(Optional) Table Sampling
<i>sampling_interval</i>	(Optional) Sampling Interval
TABLE_threshold	(Optional) Table Threshold
<i>threshold_avg</i>	(Optional) Threshold Average
<i>threshold_max</i>	(Optional) Threshold Max
TABLE_summary	(Optional) Table summary
<i>summary_egress_port</i>	(Optional) Summary Egress Port
<i>summary_sampling_interval</i>	(Optional) Summary Sampling Interval
<i>summary_min_latency</i>	(Optional) Summary Min latency
<i>summary_max_latency</i>	(Optional) Summary Max latency
<i>summary_avg_latency</i>	(Optional) Summary Avg latency
<i>summary_std_deviation</i>	(Optional) Summary Std Deviation
TABLE_detail	(Optional) Table summary detail
<i>detail_timestamp</i>	(Optional) Detail Timestamp
<i>detail_ifindex</i>	(Optional) Detail ifindex
<i>detail_fcnt</i>	(Optional) Detail fcnt
<i>detail_min_latency</i>	(Optional) Detail Min latency
<i>detail_max_latency</i>	(Optional) Detail Max latency
<i>detail_avg_latency</i>	(Optional) Detail Avg latency
TABLE_brief	(Optional) Table summary brief
<i>brief_egress_port</i>	(Optional) Brief Egress Port
<i>brief_avg_latency</i>	(Optional) Brief Avg latency

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>
<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_oifl>
<used_host_in_host_total> <used_host4_in_host> <used_host6_in_host> <mfib_fd_status>
<mfib_fd_maxroute> <mfib_fd_count> <max_v6_lpm_65_to_127_limit> <max_v6_lpm_limit>
<max_ecmp_table_limit> <used_ecmp_table> <lpm_to_host_migrate_table> <host_to_lpm_migrate_table>
<max_mcast_transit_route_limit> <used_mcast_transit_routes> <max_ecmp_nh_table_limit>
<used_ecmp_nh_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	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
detail	(Optional) Show detailed information
<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>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>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>max_v6_lpm_65_to_127_limit</i>	(Optional) Max Ucast IPv6 LPM_65_to_127 Limit Entries
<i>max_v6_lpm_limit</i>	(Optional) Max Ucast IPv6 LPM Limit Entries
<i>max_ecmp_table_limit</i>	(Optional) Max ECMP table Limit Entries
<i>used_ecmp_table</i>	(Optional) Used ECMP Table Entries
<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
<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

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 qos eoq stats-class

```
show hardware qos eoq stats-class [ module <module> ] [ __readonly__ TABLE_qos_eoq_stats_class <module>
<eoq-stats-class-desc> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show QoS related information
eoq	Show Extended Output Queue(EOQ) related information
stats-class	Show EOQ Statistics class selection config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_eoq_stats_class	(Optional) the xml qos_eoq_stats_class configuration
<i>eoq-stats-class-desc</i>	(Optional) selected class description

Command Mode

- /exec

show hardware qos include ipg

show hardware qos include ipg [module <module>] [__readonly__ TABLE_qos_include_ipg <module>]

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
include	Show include config
ipg	Show whether to include IPG in Shaping/Policing config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_include_ipg	(Optional) the xml qos_include_ipg configuration

Command Mode

- /exec

show hardware qos ing-pg-hdrm-reserve

```
show hardware qos ing-pg-hdrm-reserve [ module <module> ] [ __readonly__  
TABLE_qos_ing_pg_hdrm_reserve <module> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ing-pg-hdrm-reserve	Show ing-pg-hdrm-reserve config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
__readonly__	(Optional)
TABLE_qos_ing_pg_hdrm_reserve	(Optional) the xml qos_ing_pg_hdrm_reserve configuration

Command Mode

- /exec

show hardware qos ing-pg-no-min

```
show hardware qos ing-pg-no-min [ module <module> ] [ __readonly__ TABLE_qos_ing_pg_no_min
<module> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ing-pg-no-min	Show ing-pg-no-min config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_ing_pg_no_min	(Optional) the xml qos_ing_pg_no_min configuration

Command Mode

- /exec

show hardware qos ing-pg-share

```
show hardware qos ing-pg-share [ module <module> ] [ __readonly__ TABLE_qos_ing_pg_share <module> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ing-pg-share	Show ing-pg-share config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_ing_pg_share	(Optional) the xml qos_ing_pg_share configuration

Command Mode

- /exec

show hardware qos min-buffer

```
show hardware qos min-buffer [ module <module> ] [ __readonly__ TABLE_qos_min_buffer_profile
<module> <buff-prof-desc> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
min-buffer	Show min-buffer config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_min_buffer_profile	(Optional) the xml qos_min_buffer_profile configuration
<i>buff-prof-desc</i>	(Optional) buffer profile description

Command Mode

- /exec

show hardware qos ns-buffer-profile

```
show hardware qos ns-buffer-profile [ module <module> ] [ __readonly__ TABLE_qos_ns_buffer_profile
<module> <buff-prof-desc> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
qos	Show qos related information
ns-buffer-profile	Show ns-buffer-profile config
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>__readonly__</i>	(Optional)
TABLE_qos_ns_buffer_profile	(Optional) the xml qos_ns_buffer_profile configuration
<i>buff-prof-desc</i>	(Optional) buffer profile description

Command Mode

- /exec

show hardware rl snmp class-id

```
show hardware rl snmp class-id <class-id> [ __readonly__ TABLE-classRateLimiterTable <class-id-out>
<class-descr> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
rl	Show Rate-Limiter configs and statistics
snmp	Show Rate-Limiter snmp information
class-id	rate-limiter class-id
<i>class-id</i>	rate-limiter class
<i>__readonly__</i>	(Optional)
TABLE-classRateLimiterTable	(Optional) Class Rate Limiter Table
<i>class-id-out</i>	(Optional) class if out
<i>class-descr</i>	(Optional) class description

Command Mode

- /exec

show hardware rl snmp global class-id

show hardware rl snmp global class-id <class-id> [__readonly__ TABLE-globalRateLimiterTable
<class-id-out> <rate-limit-configured> <rate-limit-allowed> <rate-limit-dropped> <rate-limit-total>]

Syntax Description

show	Show running system information
hardware	Show hardware information
rl	Show Rate-Limiter configs and statistics
snmp	Show Rate-Limiter snmp information
global	Show Global information
class-id	rate-limiter class-id
<i>class-id</i>	rate-limiter class
<i>__readonly__</i>	(Optional)
TABLE-globalRateLimiterTable	(Optional) Global Rate Limiter Table
<i>class-id-out</i>	(Optional) class if out
<i>rate-limit-configured</i>	(Optional) rate-limit-configured
<i>rate-limit-allowed</i>	(Optional) rate-limit-allowed
<i>rate-limit-dropped</i>	(Optional) rate-limit-dropped
<i>rate-limit-total</i>	(Optional) rate-limit-total

Command Mode

- /exec

show hardware rl snmp local snmp-index class-id

```
show hardware rl snmp local snmp-index <snmp-index> class-id <class-id> [ __readonly__
TABLE-localRateLimiterTable <snmp-index-out> <class-id-out> <rate-limit-configured>
<rate-limit-configured-source> <rate-limit-allowed> <rate-limit-dropped> <rate-limit-total> ]
```

Syntax Description

show	Show running system information
hardware	Show hardware information
rl	Show Rate-Limiter configs and statistics
snmp	Show Rate-Limiter snmp information
local	Show Local information
snmp-index	snmp physical index
<i>snmp-index</i>	physical index
class-id	rate-limiter class-id
<i>class-id</i>	rate-limiter class
__readonly__	(Optional)
TABLE-localRateLimiterTable	(Optional) Local Rate Limiter Table
<i>snmp-index-out</i>	(Optional) snmp index out
<i>class-id-out</i>	(Optional) class if out
<i>rate-limit-configured</i>	(Optional) rate-limit-configured
<i>rate-limit-configured-source</i>	(Optional) rate-limit-configured-source
<i>rate-limit-allowed</i>	(Optional) rate-limit-allowed
<i>rate-limit-dropped</i>	(Optional) rate-limit-dropped
<i>rate-limit-total</i>	(Optional) 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
__readonly__	(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

<i>all</i>	(Optional) Display all VIPs
<i>__readonly__</i>	(Optional) Read only
<i>show_hsrp_start</i>	(Optional) Show hsrp start
<i>TABLE_grp_detail</i>	(Optional) Group table detail
<i>sh_if_index</i>	(Optional) Interface type and number
<i>sh_group_num</i>	(Optional) Group number
<i>sh_group_state</i>	(Optional) HSRP state
<i>sh_state_reason</i>	(Optional) Reason
<i>sh_group_type</i>	(Optional) Group type
<i>sh_group_version</i>	(Optional) Group version
<i>sh_prio</i>	(Optional) Priority
<i>sh_cfg_prio</i>	(Optional) Configured priority
<i>sh_fwd_lower_threshold</i>	(Optional) Lower threshold value
<i>sh_fwd_upper_threshold</i>	(Optional) Upper threshold value
<i>sh_can_forward</i>	(Optional) Current forwarding status
<i>sh_preempt</i>	(Optional) Preemption enabled/not
<i>sh_preempt_min_delay</i>	(Optional) Preemption min delay
<i>sh_preempt_min_delay_active</i>	(Optional) Active preemption min delay
<i>sh_preempt_reload_delay</i>	(Optional) Preemption reload delay
<i>sh_preempt_reload_delay_active</i>	(Optional) Active preemption reload delay
<i>sh_preempt_sync_delay</i>	(Optional) Preemption sync delay
<i>sh_preempt_sync_delay_active</i>	(Optional) Active preemption sync delay
<i>sh_cur_hello</i>	(Optional) Current hello time
<i>sh_cur_hello_attr</i>	(Optional) Hello time in ms/not
<i>sh_cfg_hello</i>	(Optional) Configured hello time
<i>sh_cfg_hello_attr</i>	(Optional) Hello time in ms/not
<i>sh_active_hello</i>	(Optional) Active hello time
<i>sh_cur_hold</i>	(Optional) Current hold time
<i>sh_cur_hold_attr</i>	(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) Keysting attribute
<i>sh_keystring_timeout</i>	(Optional) Keysting timeout
<i>sh_keystring_cur_valid</i>	(Optional) Keysting 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

show hsrp bfd-sessions

show hsrp bfd-sessions [interface <interface-id> [to <ipaddress>]]

Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) 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

Command Mode

- /exec

show hsrp bfd-sessions

```
show hsrp bfd-sessions [ interface <interface-id> [ to <ipaddress> ] ] [ __readonly__ TABLE_bfd_sess
<interface> <list_size> { <src_addr> | <src_addr_v6> } { <dst_addr> | <dst_addr_v6> } <ref_count> {
TABLE_ref_groups <ref_group_id> } { TABLE_hist_groups <hist_group_id> <hist_operation>
<hist_rel_time> <hist_abs_time> <hist_ref_count> <hist_group_state> <hist_status> <hist_op_reason> } ]
```

Syntax Description

show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) 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>list_size</i>	(Optional) List size
<i>src_addr</i>	(Optional) IPv4 Source address
<i>dst_addr</i>	(Optional) IPv4 Destination address
<i>ref_count</i>	(Optional) Ref count
TABLE_ref_groups	(Optional)
<i>ref_group_id</i>	(Optional) Group id
TABLE_hist_groups	(Optional)
<i>hist_group_id</i>	(Optional) Group id
<i>hist_operation</i>	(Optional) Operation
<i>hist_rel_time</i>	(Optional) Relative time
<i>hist_abs_time</i>	(Optional) Absolute time
<i>hist_ref_count</i>	(Optional) Ref count
<i>hist_group_state</i>	(Optional) Group state

<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 ext-mib sec-addr

```
show hsrp ext-mib sec-addr [ <ifindex-in> <group-id-in> <ip1-in> <ip2-in> <ip3-in> <ip4-in> ] [ __readonly__
TABLE_cHsrpExtSecAddrTable <ifindex-out> <group-id-out> <ip1-out> <ip2-out> <ip3-out> <ip4-out> {
<cHsrpExtSecAddrTable> <cHsrpExtSecAddrAddress> <cHsrpExtSecAddrRowStatus> } ]
```

Syntax Description

<u>__readonly__</u>	(Optional) Read Only
show	Show running system information
hsrp	Hot Standby Router Protocol (HSRP) information
ext-mib	Show hsrp extended mib specific configuration
sec-addr	Secondary virtual address
<i>ifindex-in</i>	(Optional) hsrp group ifindex
<i>group-id-in</i>	(Optional) hsrp group id
<i>group-id-out</i>	(Optional) hsrp group num
<i>ifindex-out</i>	(Optional) hsrp group interface index
<i>ip1-in</i>	(Optional) first part of vip
<i>ip2-in</i>	(Optional) second part of vip
<i>ip3-in</i>	(Optional) third part of vip
<i>ip4-in</i>	(Optional) fourth part of vip
<i>ip1-out</i>	(Optional) first part of vip out
<i>ip2-out</i>	(Optional) second part of vip out
<i>ip3-out</i>	(Optional) third part of vip out
<i>ip4-out</i>	(Optional) fourth part of vip out
TABLE_cHsrpExtSecAddrTable	(Optional) Hsrp extended mib secondary address table
<i>cHsrpExtSecAddrTable</i>	(Optional) Hsrp extended mib Secondary address table
<i>cHsrpExtSecAddrAddress</i>	(Optional) Hsrp extended mib Secondary Address
<i>cHsrpExtSecAddrRowStatus</i>	(Optional) Hsrp extended mib secondary address row status

Command Mode

- /exec

show hsrp ext-mib use-bia

```
show hsrp ext-mib use-bia [ <ifindex-in> ] [ __readonly__ TABLE_cHsrpExtIfEntry <ifindex-out> {
<cHsrpExtIfUseBIA> <cHsrpExtIfRowStatus> } ]
```

Syntax Description

<code>__readonly__</code>	(Optional) Read Only
<code>show</code>	Show running system information
<code>hsrp</code>	Hot Standby Router Protocol (HSRP) information
<code>ext-mib</code>	Show hsrp extended mib specific configuration
<code>use-bia</code>	Use BIA
<i>ifindex-in</i>	(Optional) hsrp group ifindex
<i>ifindex-out</i>	(Optional) hsrp group ifindex
<code>TABLE_cHsrpExtIfEntry</code>	(Optional) Use BIA info table
<i>cHsrpExtIfUseBIA</i>	(Optional) Use BIA enabled
<i>cHsrpExtIfRowStatus</i>	(Optional) Use BIA row status

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

show hw_telemetry ssx collector

```
show hw_telemetry ssx collector { all | <collectorname> } [ __readonly__ [ TABLE_ssx_collectors
<collector-name> <src-ip><src-udp-port><dest-ip><dest-udp-port><vrf><mtu><dscp> ] ]
```

Syntax Description

hw_telemetry	Display hw_telemetry information
ssx	Display SSX information
collector	Show collector details
all	All sessions
<i>collectorname</i>	SSX Collector to display
<i>__readonly__</i>	(Optional) Read Only
TABLE_ssx_collectors	(Optional) SSX collectors table

Command Mode

- /exec

show hw_telemetry ssx details

```
show hw_telemetry ssx details [ __readonly__ [ TABLE_ssx_details
<arp-timer-running><asic-instance><asic-slice><io-srcid> [ <packets-sent> ] ] ]
```

Syntax Description

hw_telemetry	Display hw_telemetry information
ssx	Display SSX information
details	Show SSX details
__readonly__	(Optional) Read Only
TABLE_ssx_details	(Optional) SSX details table

Command Mode

- /exec

show hw_telemetry ssx monitor

```
show hw_telemetry ssx monitor { all | <monitorname> } [ __readonly__ [ TABLE_ssx_monitors
<monitor-name> <globally-applied><status><collectorname><recordname> ] ]
```

Syntax Description

hw_telemetry	Display hw_telemetry information
ssx	Display SSX information
monitor	Show monitor details
all	All sessions
<i>monitorname</i>	SSX Monitor to display
<i>__readonly__</i>	(Optional) Read Only
TABLE_ssx_monitors	(Optional) SSX monitors table

Command Mode

- /exec

show hw_telemetry ssx record

```
show hw_telemetry ssx record { all | <recordname> } [ __readonly__ [ TABLE_ssx_records <record-name>
[ TABLE_stats_type <stats-type> ] <interval> ] ]
```

Syntax Description

hw_telemetry	Display hw_telemetry information
ssx	Display SSX information
record	Show record details
all	All sessions
<i>recordname</i>	SSX Record to display
<i>__readonly__</i>	(Optional) Read Only
TABLE_ssx_records	(Optional) SSX records table
TABLE_stats_type	(Optional) SSX records stats type table
<i>interval</i>	(Optional) SSX interval

Command Mode

- /exec



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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 (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 entries multicast module

```
show icam entries multicast module <module> [ history <num_intervals> ] [ sort { top <top_x> | sort-order
{ ascending | descending } | top <top_x> sort-order { ascending | descending } | sort-order { ascending |
descending } top <top_x> } ] [ __readonly__ <module> [ <num_intervals> ] [ { TABLE_MULTICAST_entries
<Vdc> <Table_Id> <Source_Mask> <Group_Mask> <Rpf> <Stats> [ <Rate> } ] ] ]
```

Syntax Description

show	Show running system information
icam	intelligent CAM
entries	TCAM Entries with result and stats
multicast	Multicast entries
module	Module Number
<i>module</i>	Enter Module 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 (Default:Descending)
ascending	(Optional) Sort in Ascending order of Stats
descending	(Optional) Sort in Descending order of Stats
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>num_intervals</i>	(Optional) Number of intervals displayed
TABLE_MULTICAST_entries	(Optional) Table for Multicast entries
<i>Vdc</i>	(Optional) VDC id
<i>Table_Id</i>	(Optional) Table id
<i>Source_Mask</i>	(Optional) Source address
<i>Group_Mask</i>	(Optional) Group address
<i>Rpf</i>	(Optional) RPF/Ordinal

<i>Stats</i>	(Optional) Total stats
<i>Rate</i>	(Optional) Rate packets/sec

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 entries multicast module

```
show icam prediction entries multicast module <module> <YYYY> <Month> <Date> <Time> [ top <top_x>
] [ __readonly__ <module> [ { TABLE_PREDICTION_MULTICAST_entries <Vdc> <Table_Id>
<Source_Mask> <Group_Mask> <Rpf> <Stats> <Prediction> } ] ]
```

Syntax Description

show	Show running system information
icam	intelligent CAM
prediction	Machine learning prediction
entries	TCAM Entries with result and stats
multicast	Multicast entries
module	Module Number
<i>module</i>	Enter Module 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>TABLE_PREDICTION_MULTICAST_entries</i>	(Optional) Table for multicast entries prediction
<i>Vdc</i>	(Optional) VDC id
<i>Table_Id</i>	(Optional) Table id
<i>Source_Mask</i>	(Optional) Source address
<i>Group_Mask</i>	(Optional) Group address
<i>Rpf</i>	(Optional) RPF/Ordinal
<i>Stats</i>	(Optional) Current stats
<i>Prediction</i>	(Optional) Prediction

Command Mode

- /exec

show icam prediction resource acl_tcaml module inst trend

```
show icam prediction resource acl_tcaml module <module> inst <inst> trend [ __readonly__ <module>
<instance> [ { TABLE_PREDICTION_ACL_feature <Feature> <Dir> <TCAM> <BANK> <Feature_Entries1>
<Free_Entries1> <Percent_Util1> <Feature_Entries2> <Free_Entries2> <Percent_Util2> <Feature_Entries3>
<Free_Entries3> <Percent_Util3> } ] [ <mod> <inst> { TABLE_PREDICTION_ACL_tcaml <Tcam_no>
<Bank_no> <Used1> <Free1> <Util1> <Used2> <Free2> <Util2> <Used3> <Free3> <Util3> } ] ]
```

Syntax Description

show	Show running system information
icam	intelligent CAM
prediction	Machine learning prediction
resource	TCAM Resource utilization
acl_tcaml	ACL TCAM resource
module	Module Number
<i>module</i>	Enter Module Number
inst	ASIC/Forwarding Engine Instance Number
<i>inst</i>	Enter Instance Number
trend	ACL Prediction Trend
<i>__readonly__</i>	(Optional) Read Only
<i>module</i>	(Optional) Module number
<i>instance</i>	(Optional) Instance number
TABLE_PREDICTION_ACL_feature	(Optional) ACL Feature utilization predictions
<i>Feature</i>	(Optional) Feature name
<i>Dir</i>	(Optional) Direction
<i>TCAM</i>	(Optional) TCAM entry
<i>BANK</i>	(Optional) BANK entry
<i>Feature_Entries1</i>	(Optional) +24Hr Feature_Entries
<i>Free_Entries1</i>	(Optional) +24Hr Free_Entries
<i>Percent_Util1</i>	(Optional) +24Hr Percent_Util
<i>Feature_Entries2</i>	(Optional) +48Hr Feature_Entries
<i>Free_Entries2</i>	(Optional) +48Hr Free_Entries

<i>Percent_Util2</i>	(Optional) +48Hr Percent_Util
<i>Feature_Entries3</i>	(Optional) +1wk Feature_Entries
<i>Free_Entries3</i>	(Optional) +1wk Free_Entries
<i>Percent_Util3</i>	(Optional) +1wk Percent_Util
<i>mod</i>	(Optional) Module number
<i>inst</i>	(Optional) Instance number
TABLE_PREDICTION_ACL_tcam	(Optional) ACL TCAM utilization predictions
<i>Tcam_no</i>	(Optional) Tcam number
<i>Bank_no</i>	(Optional) Bank number
<i>Used1</i>	(Optional) +24Hr Used
<i>Free1</i>	(Optional) +24Hr Free
<i>Util1</i>	(Optional) +24Hr Percent_Util
<i>Used2</i>	(Optional) +48Hr Used
<i>Free2</i>	(Optional) +48Hr Free
<i>Util2</i>	(Optional) +48Hr Percent_Util
<i>Used3</i>	(Optional) +1wk Used
<i>Free3</i>	(Optional) +1wk Free
<i>Util3</i>	(Optional) +1wk Percent_Util

Command Mode

- /exec

show icam prediction resource module inst

```
show icam prediction resource { acl_tcaml fib_tcaml l2_table } module <module> inst <inst> <YYYY>
<Month> <Date> <Time> [ __readonly__ <module> <instance> [ { TABLE_PREDICTION_ACL_feature
<Feature> <Dir> <TCAM> <BANK> <Feature_Entries> <Free_Entries> <Percent_Util> } ] [ <mod> <inst>
{ TABLE_PREDICTION_ACL_tcaml <Tcam_no> <Bank_no> <Used> <Free> <Percent_Util> } ] [ {
TABLE_PREDICTION_FIB_tcaml <Class> <Used_Entries> <Max_Entries> <Percent_Util> } ] [ {
TABLE_PREDICTION_L2_TABLE <Used_Entries> <Free_Entries> <Percent_Util> } ] ] ]
```

Syntax Description

show	Show running system information
icam	intelligent CAM
prediction	Machine learning prediction
resource	TCAM Resource utilization
acl_tcaml	ACL TCAM resource
fib_tcaml	FIB TCAM resource
l2_table	L2 TABLE resource
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
<i>__readonly__</i>	(Optional) Read Only
<i>module</i>	(Optional) Module number
<i>instance</i>	(Optional) Instance number
TABLE_PREDICTION_ACL_feature	(Optional) ACL Feature utilization predictions
<i>Feature</i>	(Optional) Feature name
<i>Dir</i>	(Optional) Direction
<i>TCAM</i>	(Optional) TCAM entry

<i>BANK</i>	(Optional) BANK entry
<i>Feature_Entries</i>	(Optional) Feature_Entries
<i>Free_Entries</i>	(Optional) Free_Entries
<i>Percent_Util</i>	(Optional) Percent_Util
<i>mod</i>	(Optional) Module number
<i>inst</i>	(Optional) Instance number
TABLE_PREDICTION_ACL_tcam	(Optional) ACL TCAM utilization predictions
<i>Tcam_no</i>	(Optional) Tcam number
<i>Bank_no</i>	(Optional) Bank number
<i>Used</i>	(Optional) Used
<i>Free</i>	(Optional) Free
<i>Percent_Util</i>	(Optional) Percent_Util
TABLE_PREDICTION_FIB_tcam	(Optional) FIB TCAM utilization predictions
<i>Class</i>	(Optional) FIB class
<i>Used_Entries</i>	(Optional) Used entries
<i>Max_Entries</i>	(Optional) Max entries
<i>Percent_Util</i>	(Optional) Percent_Util
TABLE_PREDICTION_L2_TABLE	(Optional) L2 TABLE Util prediction
<i>Used_Entries</i>	(Optional) Used
<i>Free_Entries</i>	(Optional) Free
<i>Percent_Util</i>	(Optional) Percent_Util

Command Mode

- /exec

show icam resource module inst

```
show icam resource { acl_tcam | fib_tcam | l2_table } module <module> inst <inst> [ history <num_intervals> ] [ __readonly__ <module> <instance> [ { TABLE_feature_resource <Feature> <TCAM> <BANK> [ { TABLE_ingress_stats <Feature_Entries> <Free_Entries> <Percent_Util> <Timestamp> } ] } ] [ { TABLE_egress_feature_resource <Feature> <TCAM> <BANK> [ { TABLE_egress_stats <Feature_Entries> <Free_Entries> <Percent_Util> <Timestamp> } ] } ] [ <mod> <inst> { TABLE_tcam_bank_utilization <Tcam_no> <Bank_no> [ { TABLE_tcam_bank_stats <Used> <Free> <Percent_Util> <Timestamp> } ] } ] [ { TABLE_global_configs <Atomic_Update> <Bank_Chain_Mode> <Dynamic_Bank_Mapping> <LOU_Threshold_Value> } ] [ { TABLE_fib_resource <Class> [ { TABLE_fib_stats <Used_Entries> <Max_Entries> <Percent_Util> <Timestamp> } ] } ] [ { TABLE_l2_table_resource <Total_Entries> <Used_Entries> <Percent_Util> <Timestamp> } ] ]
```

Syntax Description

show	Show running system information
icam	intelligent CAM
resource	TCAM Resource utilization
acl_tcam	ACL TCAM resource
fib_tcam	FIB TCAM resource
l2_table	L2 TABLE resource
module	Module Number
<i>module</i>	Enter Module Number
inst	ASIC/Forwarding Engine Instance Number
<i>inst</i>	Enter Instance Number
history	(Optional) Show resource history
<i>num_intervals</i>	(Optional) Number of intervals in history
<i>__readonly__</i>	(Optional) Read Only
<i>module</i>	(Optional) Module number
<i>instance</i>	(Optional) Instance number
TABLE_feature_resource	(Optional) Table for ingress feature resources
<i>Feature</i>	(Optional) Feature name
<i>TCAM</i>	(Optional) TCAM entry
<i>BANK</i>	(Optional) BANK entry
TABLE_ingress_stats	(Optional) Table for ingress feature stats

<i>Feature_Entries</i>	(Optional) Feature_Entries
<i>Free_Entries</i>	(Optional) Free_Entries
<i>Percent_Util</i>	(Optional) Percent_Util
<i>Timestamp</i>	(Optional) Timestamp
TABLE_egress_feature_resource	(Optional) Table for egress feature resources
<i>Feature</i>	(Optional) Feature name
<i>TCAM</i>	(Optional) TCAM entry
<i>BANK</i>	(Optional) BANK entry
TABLE_egress_stats	(Optional) Table for egress feature stats
<i>Feature_Entries</i>	(Optional) Feature_Entries
<i>Free_Entries</i>	(Optional) Free_Entries
<i>Percent_Util</i>	(Optional) Percent_Util
<i>Timestamp</i>	(Optional) Timestamp
<i>mod</i>	(Optional) Module number
<i>inst</i>	(Optional) Instance number
TABLE_tcam_bank_utilization	(Optional) Table for tcam and bank utilization
<i>Tcam_no</i>	(Optional) Tcam number
<i>Bank_no</i>	(Optional) Bank number
TABLE_tcam_bank_stats	(Optional) Table for tcam and bank stats
<i>Used</i>	(Optional) Used
<i>Free</i>	(Optional) Free
<i>Percent_Util</i>	(Optional) Percent_Util
<i>Timestamp</i>	(Optional) Timestamp
TABLE_global_configs	(Optional) TABLE_global_configs
<i>Atomic_Update</i>	(Optional) Atomic_Update
<i>Bank_Chain_Mode</i>	(Optional) Bank_Chain_Mode
<i>Dynamic_Bank_Mapping</i>	(Optional) Dynamic_Bank_Mapping
<i>LOU_Threshold_Value</i>	(Optional) LOU_Threshold_Value
TABLE_fib_resource	(Optional) Table for fib resources

<i>Class</i>	(Optional) FIB class
TABLE_fib_stats	(Optional) Table for fib resource stats
<i>Used_Entries</i>	(Optional) Used entries
<i>Max_Entries</i>	(Optional) Max entries
<i>Percent_Util</i>	(Optional) Percent_Util
<i>Timestamp</i>	(Optional) Timestamp
TABLE_l2_table_resource	(Optional) Table for L2 Resources
<i>Total_Entries</i>	(Optional) Total L2 entries
<i>Used_Entries</i>	(Optional) Used L2 entries
<i>Percent_Util</i>	(Optional) Percent_Util
<i>Timestamp</i>	(Optional) Timestamp

Command Mode

- /exec

show icam scale

```
show icam scale [ { { l2-switching [ mac-addresses | mst-instances | mst-vports | rpvst-vports | rpvst-vlans |
vlans ] } | { multicast-routing [ multicast-routes | igmp-groups | pim-neighbors | outgoing-interfaces ] } | {
unicast-routing [ bfd-sessions | eigrp-routes | ipv4-arp | ipv4-host-routes | ipv6-host-routes | ipv4-isis-routes
| ospf-size ] } | { vxlan [ test ] } } ] [ history <num_intervals> | utilization | thresholds ] [ __readonly__ [
<Info_Thres> <Warn_Thres> <Crit_Thres> ] [ { TABLE_technology <Technology> [ { TABLE_feature
<Feature> <Verified_Scale> <Config_Scale> [ { TABLE_feature_stats <Used_Entries> <Cur_Util> [
<Thres_Exceeded> <Polled_TS> ] [ <Avg_Util> ] [ <Week_Util> <Week_TS> ] [ <Peak_Util> <Peak_TS>
] [ <Info_Thres_Exceed> <Info_Thres_Exceed_TS> <Warn_Thres_Exceed> <Warn_Thres_Exceed_TS>
<Crit_Thres_Exceed> <Crit_Thres_Exceed_TS> ] } } ] } ] ] ] ]
```

Syntax Description

show	Show running system information
icam	intelligent CAM
scale	Verified scale
l2-switching	(Optional) Layer 2 switching
multicast-routing	(Optional) Multicast routing
unicast-routing	(Optional) Unicast routing
vxlan	(Optional) VxLAN
mac-addresses	(Optional) MAC addresses
mst-instances	(Optional) MST instances
mst-vports	(Optional) MST virtual ports
rpvst-vports	(Optional) RPVST virtual ports
rpvst-vlans	(Optional) RPVST VLANs
vlans	(Optional) VLANs
multicast-routes	(Optional) Multicast routes
igmp-groups	(Optional) IGMP groups
pim-neighbors	(Optional) PIM neighbors
outgoing-interfaces	(Optional) Outgoing interfaces
bfd-sessions	(Optional) BFD sessions
eigrp-routes	(Optional) EIGRP routes
ipv4-arp	(Optional) IPv4 ARP
ipv4-host-routes	(Optional) IPv4 host routes

ipv6-host-routes	(Optional) IPv6 host routes
ipv4-isis-routes	(Optional) IPv4 IS-IS routes
ospf-size	(Optional) OSPF size
test	(Optional) VxLAN test
history	(Optional) Show scale history
<i>num_intervals</i>	(Optional) Number of intervals in history
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>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>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 imp client

show imp client

Syntax Description

show	Show running system information
imp	ipsec management process
client	Show ipsec clients name

Command Mode

- /exec

show imp client sa

show imp client sa

Syntax Description

show	Show running system information
imp	IPSec management process
client	IMP client
sa	Display all SAs

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> ] } ]
```

Syntax Description

show	Show running system information
install	Install related show commands
inactive	Inactive packages
active	Active packages
brief	(Optional) Brief
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

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 impact

show install impact <uri0> <uri1>

Syntax Description

show	Show running system information
install	Show the software install impact between two images
impact	impact system_uri {active_system_uri/active_kickstart_uri}
<i>uri0</i>	Enter system URI
<i>uri1</i>	Enter active URI

Command Mode

- /exec

show install impact

show install impact <uri0>

Syntax Description

show	Show running system information
install	Show the software install impact between two images
impact	impact system_uri {active_system_uri/active_kickstart_uri}
<i>uri0</i>	Enter system URI

Command Mode

- /exec

show install impact detail

show install impact <uri0> detail

Syntax Description

show	Show running system information
install	Show the software install impact between two images
impact	impact system_uri {active_system_uri/active_kickstart_uri}
<i>uri0</i>	Enter system URI
detail	Show detailed install impact of given system image

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 packages

```
show install packages [ __readonly__ { <curr_nxos_image> [ TABLE_package_list <package_name>
<version> <state> ] } ]
```

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
TABLE_package_list	(Optional)
<i>package_name</i>	(Optional) Package name
<i>version</i>	(Optional) Package version
<i>state</i>	(Optional) package state

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 <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> <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>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 <ifid> [ brief | quick ] [ __readonly__ TABLE interface <interface> [ <desc> ] [ [ <svi_if_index>
] [ <svi_admin_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> ] ] [ [ <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_load_interval2> ] [ <eth_inrate2_bits> ] [
<eth_inrate2_pkts> ] [ <eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [ <eth_load_interval3> ] [
<eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_outrate3_bits> ] [ <eth_outrate3_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> ] [
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] [ <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> ] [
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] [ <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
brief	(Optional) Show brief info of interface
quick	(Optional) Show info of interface skipping stats
__readonly__	(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>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>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

<i>TABLE_sec_vlan</i>	(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_load_interval2</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_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</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_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<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> ] [ <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> ] [ <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_sw_t_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> ] [ <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
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(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>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>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_sw_t_monitor</i>	(Optional) Switchport Monitor
<i>eth_etherType</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_ctr</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> ] [ <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> ] [ <medium> ] [ <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_ethertype> ] [
<eth_eee_state> ] [ <eth_members> ] [ <eth_link_flapped> ] [ <eth_clear_counters> ] [ <eth_reset_cntr> ] [
<eth_load_interval1> ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [
<eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_load_interval2> ] [
<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_load_interval3> ] [
<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> ] [
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<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> ] [
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<eth_l3avg1_outbytes> ] [ <eth_l3avg1_outpkts> ] [ <eth_inucast> ] [ <eth_inmcast> ] [ <eth_inbcast> ] [
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] [ <eth_crc> ] [ <eth_nobuf> ] [ <eth_inerr> ] [ <eth_frame> ] [ <eth_overrun> ] [ <eth_underrun> ] [
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] [ <eth_outpkts> ] [ <eth_outbytes> ] [ <eth_jumbo_outpkts> ] [ <eth_outerr> ] [ <eth_coll> ] [ <eth_deferred>
] [ <eth_latecoll> ] [ <eth_lostcarrier> ] [ <eth_nocarrier> ] [ <eth_babbles> ] [ <eth_outdiscard> ] [
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] [ <mgmt_in_mcast> ] [ <mgmt_in_compressed> ] [ <mgmt_in_errors> ] [ <mgmt_in_frame> ] [
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[ <mgmt_undersize> ] [ <mgmt_outdisc> ] [ <mgmt_single_col> ] [ <mgmt_multi_col> ] [ <mgmt_late_col>
] [ <mgmt_excess_col> ] [ <mgmt_carri_sen> ] [ <mgmt_runts> ] [ <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> ] <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> <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> [ <svi_if_index>
] [ <svi_admin_state> ] [ <svi_rsn_desc> ] [ <svi_line_proto> ] [ <svi_hw> ] [ <svi_mac> ] [ <svi_desc> ] [
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<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> ]
} [ <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> ] [
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<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> ] [
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<svi_average_output_bits> ] [ <svi_average_output_packets> ] [ <svi_rate_in_mins> ] [ <svi_reliability> ]
[ <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> ] [
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] [ <overlay_tx_bcastpkts> ] [ <overlay_tx_bcastbytes> ] [ <overlay_tx_pkts> ] [ <overlay_tx_bytes> ] [
<overlay_tx_bitrate> ] [ <overlay_tx_pktrate> ] <switchport> ]

```

Syntax Description

show	Show running system information
interface	Show interface status and information
controller	(Optional) Show controller configured interfaces
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>switchport</i>	(Optional) Switchport enabled
<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>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_etherstype</i>	(Optional) EtherType
<i>eth_eee_state</i>	(Optional) EEE 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</i>	(Optional) interval 1 timer value in sec
<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_load_interval2</i>	(Optional) interval 2 timer value in 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_load_interval3</i>	(Optional) interval 3 timer value in 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>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>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>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 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 <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> ] [ <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_sw_t_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> ] [ <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
<u>__readonly__</u>	(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>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_sw_t_monitor</i>	(Optional) Switchport Monitor

<i>eth_etherType</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>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 <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> ] [ <medium> ] [ <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_ethertype> ] [
<eth_eee_state> ] [ <eth_members> ] [ <eth_link_flapped> ] [ <eth_clear_counters> ] [ <eth_reset_cntr> ] [
<eth_load_interval1> ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [
<eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_load_interval2> ] [
<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_load_interval3> ] [
<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>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_etherstype</i>	(Optional) EtherType
<i>eth_eee_state</i>	(Optional) EEE 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</i>	(Optional) interval 1 timer value in sec
<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_load_interval2</i>	(Optional) interval 2 timer value in 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_load_interval3</i>	(Optional) interval 3 timer value in 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>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> ] [ <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_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>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 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 <ifpch_brf> brief [ __readonly__ TABLE_interface <interface> [ <vlan> ] <type> <portmode>
<state> <state_rsn_desc> <speed> <ratemode> [ <proto> ] ]
```

Syntax Description

<code>show</code>	Show running system information
<code>interface</code>	Show interface status and information
<i>ifpch_brf</i>	Enter interface type and number in module/slot format
<code>brief</code>	Show brief info of interface
<code>__readonly__</code>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<code>TABLE_interface</code>	(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 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> ] [
<port_rate_mode> ] [ <oper_speed> ] [ <port_channel> ] [ <ip_addr1> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
brief	Show brief info of interface
controller	(Optional) Show controller configured interfaces
cli	(Optional) Show CLI configured interfaces
__readonly__	(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>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

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>
<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>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 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
<i>TABLE_interface</i>	(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

<code>show</code>	Show running system information
<code>interface</code>	Show interface status and information
<code>ifeth_brf</code>	Enter interface type and number in module/slot format
<code>brief</code>	Show brief info of interface
<code>__readonly__</code>	(Optional) Read Only
<code>interface</code>	(Optional) Interface index
<code>TABLE_interface</code>	(Optional) show interface
<code>vlan</code>	(Optional) Vlan
<code>type</code>	(Optional) Type
<code>portmode</code>	(Optional) Port mode
<code>state</code>	(Optional) Interface state
<code>state_rsn_desc</code>	(Optional) Interface state reason detailed
<code>speed</code>	(Optional) Speed
<code>ratemode</code>	(Optional) Interface port speed
<code>portchan</code>	(Optional) Port Channel Membership

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 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 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 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 <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> ] [ <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
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>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 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 <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 <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 <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 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> ] ]
```

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

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_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> ] [ <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> ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [
<eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_load_interval2> ] [
<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_load_interval3> ] [
<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> ] ]

```

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
<i>interface</i>	(Optional) Interface index
<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
<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_intervall</i>	(Optional) interval 1 timer value in sec
<i>eth_load_intervall_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_load_interval2</i>	(Optional) interval 2 timer value in 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_load_interval3</i>	(Optional) interval 3 timer value in 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_swapped</i>	(Optional) Input H/W Swapped
<i>eth_insw_swapped</i>	(Optional) Input S/W Swapped
<i>eth_throtles</i>	(Optional) throttles
<i>eth_frame</i>	(Optional) frame
<i>eth_outhw_swapped</i>	(Optional) Out H/W Swapped
<i>eth_outsw_swapped</i>	(Optional) Out S/W Swapped
<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_nfcoc_out_octets</i>	(Optional) nfcoc 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

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_overnn> ] [ <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_overnn</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> ] [ <eth_load_interval1_rx> ] [ <eth_inrate1_bits> ] [ <eth_inrate1_pkts> ] [
<eth_load_interval1_tx> ] [ <eth_outrate1_bits> ] [ <eth_outrate1_pkts> ] [ <eth_load_interval2> ] [
<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_load_interval3> ] [
<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_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_interface	(Optional) show interface
<i>eth_load_interval1</i>	(Optional) interval 1 timer value in sec
<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_load_interval2</i>	(Optional) interval 2 timer value in 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_load_interval3</i>	(Optional) interval 3 timer value in 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

show interface counters detailed

- /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_runts> ][ <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
<i>__readonly__</i>	(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
<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_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
__readonly__	(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 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_load_interval2> ] [
<eth_inrate2_bits> ] [ <eth_inrate2_pkts> ] [ <eth_outrate2_bits> ] [ <eth_outrate2_pkts> ] [
<eth_load_interval3> ] [ <eth_inrate3_bits> ] [ <eth_inrate3_pkts> ] [ <eth_outrate3_bits> ] [
<eth_outrate3_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
__readonly__	(Optional) Read Only
interface	(Optional) Interface index
TABLE_interface	(Optional) show interface
rx_total_pkts	(Optional) total input packets
tx_total_pkts	(Optional) total output packets
rx_ucast_pkts	(Optional) input unicasts
rx_mcast_pkts	(Optional) input multicasts
rx_bcast_pkts	(Optional) input broadcasts
rx_octets	(Optional) input bytes
tx_ucast_pkts	(Optional) output unicasts
tx_mcast_pkts	(Optional) output multicasts
tx_bcast_pkts	(Optional) output broadcasts
tx_octets	(Optional) output bytes
rxtx_pkts_64octets	(Optional) all pkts between 0 and 64 bytes
rxtx_pkts_65_127octets	(Optional) all pkts between 65 and 127 bytes
rxtx_pkts_128_255octets	(Optional) all pkts between 128 and 255 bytes
rxtx_pkts_256_511octets	(Optional) all pkts between 256 and 511 bytes
rxtx_pkts_512_1023octets	(Optional) all pkts between 512 and 1023 bytes
rxtx_pkts_1024_1518octets	(Optional) all pkts between 1024 and 1518 bytes
rxtx_pkts_1519_1548octets	(Optional) all pkts between 1519 and 1548 bytes
rx_trunk_frames	(Optional) input trunk pkts
tx_trunk_frames	(Optional) output trunk pkts
rx_drop_events	(Optional) dropped pkts
rxtx_giants	(Optional) giants
eth_load_interval1_rx	(Optional) interval 1 timer value in sec
eth_inrate1_bits	(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_load_interval2</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_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</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_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<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_bcstpks</i>	(Optional) L3 out switched bcst pkts
<i>eth_l3out_bcstbytes</i>	(Optional) L3 out switched bcst 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_inbcst</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 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_load_interval2> ][ <eth_inrate2_bits> ][ <eth_inrate2_pkts> ][
<eth_outrate2_bits> ][ <eth_outrate2_pkts> ][ <eth_load_interval3> ][ <eth_inrate3_bits> ][
<eth_inrate3_pkts> ][ <eth_outrate3_bits> ][ <eth_outrate3_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_runs> ][ <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> ] ]
```

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

<i>detailed</i>	Show only non-zero counters
<i>cached</i>	everything cached
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
TABLE_ <i>interface</i>	(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_intervall_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

show interface counters detailed cached

<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_load_interval2</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_outrate2_bits</i>	(Optional) interval 2 output rate bits/sec
<i>eth_outrate2_pkts</i>	(Optional) interval 2 output rate pkts/sec
<i>eth_load_interval3</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_outrate3_bits</i>	(Optional) interval 3 output rate bits/sec
<i>eth_outrate3_pkts</i>	(Optional) interval 3 output rate pkts/sec
<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

show interface counters detailed cached

<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 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> ] ]
```

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

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_inmacrx_err> ] [
<eth_inmactx_err> ] [ <eth_symbol_err> ] ]
```

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
<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_inmacrx_err</i>	(Optional) In MAC rx
<i>eth_inmactx_err</i>	(Optional) In MAC tx
<i>eth_symbol_err</i>	(Optional) Symbol error

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 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
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 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 table

show interface counters table [verbose]

Syntax Description

show	Show running system information
interface	Show interface status and information
counters	Show interface counters
table	format counters in a table
verbose	(Optional) show errors counts after counters

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
<i>TABLE_interface</i>	(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

Syntax Description

show	Show running system information
interface	Show interface status and information
dampening	Show interface dampening info

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
<i>__readonly__</i>	(Optional) Read Only
<i>interface</i>	(Optional) Interface index
<i>TABLE_interface</i>	(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 description [ __readonly__ TABLE_interface <interface> [ <state> ] [ <type> ] [ <speed> ] [ <protocol> ] [ <desc> ] ]
```

Syntax Description

<code>show</code>	Show running system information
<code>interface</code>	Show interface status and information
<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>type</code>	(Optional) Type
<code>speed</code>	(Optional) Speed
<code>protocol</code>	(Optional) Protocol
<code>desc</code>	(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
__readonly__	(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

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 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 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 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 <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 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	(Optional) Show interface status auto-column adjusted
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 <ifid_status> status [ __readonly__ TABLE_interface <interface> [ <name> ] [ <state> ] [
<vlan> ] [ <duplex> ] [ <speed> ] [ <type> ] ]
```

Syntax Description

show	Show running system information
interface	Show interface status and information
<i>ifid_status</i>	Enter interface type and number in module/slot format
status	Show interface line status
__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>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 <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 <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

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 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
<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-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
<i>__readonly__</i>	(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 <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
<i>__readonly__</i>	(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_swch> 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_swch</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> ] [ <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</i> <i>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 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> ] [ <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_om3> ] [ <length_om2> ] [ <length_om1> ]
[ <length_copper> ] [ <length_9u_1> ] [ <length_9u_2> ] [ <length_50u> ] [ <length_60u> ] [ <length_copper>
] [ <reserved3> ] [ <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> ] [ <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_alarm_hi> ] [ <temp_alarm_lo> ] [ <temp_warn_hi> ] [ <temp_warn_lo> ] [ <voltage>
] [ <volt_flag> ] [ <volt_alarm_hi> ] [ <volt_alarm_lo> ] [ <volt_warn_hi> ] [ <volt_warn_lo> ] [ <current> ]
[ <current_flag> ] [ <current_alarm_hi> ] [ <current_alarm_lo> ] [ <current_warn_hi> ] [ <current_warn_lo>
] [ <tx_pwr> ] [ <tx_pwr_flag> ] [ <tx_pwr_alarm_hi> ] [ <tx_pwr_alarm_lo> ] [ <tx_pwr_warn_hi> ] [
<tx_pwr_warn_lo> ] [ <rx_pwr> ] [ <rx_pwr_flag> ] [ <rx_pwr_alarm_hi> ] [ <rx_pwr_alarm_lo> ] [
<rx_pwr_warn_hi> ] [ <rx_pwr_warn_lo> ] [ <xmit_faults> ] [ <snr> ] [ <snr_flag> ] [ <snr_alarm_hi> ] [
<snr_alarm_lo> ] [ <snr_warn_hi> ] [ <snr_warn_lo> ] [ <isi> ] [ <isi_flag> ] [ <isi_alarm_hi> ] [ <isi_alarm_lo>
] [ <isi_warn_hi> ] [ <isi_warn_lo> ] [ <pam> ] [ <pam_flag> ] [ <pam_alarm_hi> ] [ <pam_alarm_lo> ] [
<pam_warn_hi> ] [ <pam_warn_lo> ] [ <pre_fec_ber> ] [ <pre_fec_ber_flag> ] [ <pre_fec_ber_alarm_hi> ] [
<pre_fec_ber_alarm_lo> ] [ <pre_fec_ber_warn_hi> ] [ <pre_fec_ber_warn_lo> ] [ <uncorrect_ber> ] [
<uncorrect_ber_flag> ] [ <uncorrect_ber_alarm_hi> ] [ <uncorrect_ber_alarm_lo> ] [ <uncorrect_ber_warn_hi>
] [ <uncorrect_ber_warn_lo> ] [ <tec_current> ] [ <tec_current_flag> ] [ <tec_current_alarm_hi> ] [
<tec_current_alarm_lo> ] [ <tec_current_warn_hi> ] [ <tec_current_warn_lo> ] [ <laser_freq> ] [
<laser_freq_flag> ] [ <laser_freq_alarm_hi> ] [ <laser_freq_alarm_lo> ] [ <laser_freq_warn_hi> ] [
<laser_freq_warn_lo> ] [ <laser_temp> ] [ <laser_temp_flag> ] [ <laser_temp_alarm_hi> ] [
<laser_temp_alarm_lo> ] [ <laser_temp_warn_hi> ] [ <laser_temp_warn_lo> ] [ <pre_fec_ber_acc> ] [
<pre_fec_ber_acc_flag> ] [ <pre_fec_ber_acc_alarm_hi> ] [ <pre_fec_ber_acc_alarm_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_alarm_hi> ] [ <pre_fec_ber_min_alarm_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_alarm_hi> ] [ <pre_fec_ber_max_alarm_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_alarm_hi>
] [ <pre_fec_ber_cur_alarm_lo> ] [ <pre_fec_ber_cur_warn_hi> ] [ <pre_fec_ber_cur_warn_lo> ] [
<uncorrect_ber_acc> ] [ <uncorrect_ber_acc_flag> ] [ <uncorrect_ber_acc_alarm_hi> ] [
<uncorrect_ber_acc_alarm_lo> ] [ <uncorrect_ber_acc_warn_hi> ] [ <uncorrect_ber_acc_warn_lo> ] [
<uncorrect_ber_min> ] [ <uncorrect_ber_min_flag> ] [ <uncorrect_ber_min_alarm_hi> ] [
<uncorrect_ber_min_alarm_lo> ] [ <uncorrect_ber_min_warn_hi> ] [ <uncorrect_ber_min_warn_lo> ] [
<uncorrect_ber_max> ] [ <uncorrect_ber_max_flag> ] [ <uncorrect_ber_max_alarm_hi> ] [
<uncorrect_ber_max_alarm_lo> ] [ <uncorrect_ber_max_warn_hi> ] [ <uncorrect_ber_max_warn_lo> ] [
<uncorrect_ber_cur> ] [ <uncorrect_ber_cur_flag> ] [ <uncorrect_ber_cur_alarm_hi> ] [
<uncorrect_ber_cur_alarm_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>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_om3</i>	(Optional) Length_OM3
<i>length_om2</i>	(Optional) Length_OM2
<i>length_om1</i>	(Optional) Length_OM1
<i>length_copper</i>	(Optional) Length_Copper

<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>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>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_alrm_hi</i>	(Optional) Temperature Alarm High
<i>temp_alrm_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_alrm_hi</i>	(Optional) Voltage Alarm High
<i>volt_alrm_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_alrm_hi</i>	(Optional) Current Alarm High
<i>current_alrm_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_alrm_hi</i>	(Optional) Tx Power Alarm High
<i>tx_pwr_alrm_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 transceiver [ calibrations | details | inventory ] [ __readonly__ TABLE_interface <interface>
[ <sfp> ] [ <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_range> ] [ <ciscoid> ] [ <ciscoid_1> ] [ <cisco_part_number> ] [ <cisco_product_id> ] [ <cisco_vendor_id> ] [
<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
calibrations	(Optional) Show interface transceiver calibration information

<i>details</i>	(Optional) Show interface transceiver detail information
<i>inventory</i>	(Optional) Show interface transceiver inventory
<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>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_range</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>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_alarm_hi</i>	(Optional) Voltage Alarm High
<i>volt_alarm_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_alrm_hi</i>	(Optional) PAM alarm high
<i>pam_alrm_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_alrm_hi</i>	(Optional) Pre-FEC BER alarm high
<i>pre_fec_ber_alrm_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_alrm_hi</i>	(Optional) Uncorrected BER alarm high
<i>uncorrect_ber_alrm_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_alrm_hi</i>	(Optional) TEC Current Alarm High
<i>tec_current_alrm_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_alrm_hi</i>	(Optional) Laser Frequency Alarm High
<i>laser_freq_alrm_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_alrm_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_alrm_hi</i>	(Optional) Uncorrected BER Acc alarm high
<i>uncorrect_ber_acc_alrm_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_alrm_hi</i>	(Optional) Uncorrected BER Min alarm high
<i>uncorrect_ber_min_alrm_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_alrm_hi</i>	(Optional) Uncorrected BER Max alarm high
<i>uncorrect_ber_max_alrm_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_alrm_hi</i>	(Optional) Uncorrected BER Cur alarm high
<i>uncorrect_ber_cur_alrm_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 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
<i>__readonly__</i>	(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>vtp pruning_vlans</i>	(Optional) VTP Pruning VLANs

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
<i>__readonly__</i>	(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 untagged-cos

```
show interface untagged-cos [ module <mod_num> ] [ __readonly__ <interface> <ucos-value> ]
```

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
<i>ucos-value</i>	(Optional) COS value

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
<i>__readonly__</i>	(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> [ <phy-intf> ] [ <unknown> ] [ <incomplete>
] [ <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>phy-intf</i>	(Optional) Show physical interface
<i>unknown</i>	(Optional) Show unknown entry
<i>incomplete</i>	(Optional) Show incomplete entry
<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 cache

show ip arp cache { { brief | detail } | { interface [<intf>] } } [operational]

Syntax Description

show	Show running system information
ip	Display IP information
arp	arp
cache	Display ip arp cache
interface	Display ip arp related interface information
brief	Display summary of arp interface status and configuration
detail	Display detailed information of arp interface status and configuration
operational	(Optional) Display only interfaces that are administratively enabled
<i>intf</i>	(Optional) Interface name to display

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 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 adjacency flgs

Command Mode

- /exec

show ip arp open-flow error-statistics

```
show ip arp open-flow error-statistics [ __readonly__ { TABLE_ip_arp_open_flow_error_statistics [
<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_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>TABLE_ip_arp_open_flow_error_statistics</i>	(Optional) ARP Open Flow Error Statistics
<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_barrier_response_err</i>	(Optional) Barrier responses

Command Mode

- /exec

show ip arp snmp ptree

```
show ip arp snmp ptree { static | dynamic | virtual | typeall } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
snmp	Show only snmp ptree
pttree	Patricia tree
static	show only static adjacencies in pt tree
dynamic	show only dynamic adjacencies in pt tree
virtual	show only virtual adjacencies in pt tree
typeall	show all adjacencies in pt tree
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

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> <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> <stbpy-fhrp-vip> <grat-prxy-en> <arp-req-ignore> <l2-intf>
<l2fm-query-fail> <tunnel_fail> [ <hsrp-active-vmac> ] [ <rx-intf-down> ] <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-ctrd</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>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>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> ] [ 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
__readonly__	(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
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> ] } ]
```

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

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 unnum-svi-adj

show ip arp unnum-svi-adj

Syntax Description

show	Show running system information
ip	Configure IP features
arp	Configure ARP parameters
unnum-svi-adj	Ip unnumbered SVI adjacency

Command Mode

- /exec

show ip arp vaddr

show ip arp vaddr

Syntax Description

show	Show running system information
ip	Display IP information
arp	Display ARP table and statistics
vaddr	Display VADDR ARP table

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-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-inval-phy-iod> ] [ <arp-drp-total-cnt> ] [
<arp-dont-drop-total-cnt> ] [ <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-supp-cnt> ] } ]
```

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 processing 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-suppress-cnt</i>	(Optional) Total periodic sync adjacencies added for L2 suppression case
<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-dnvry-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 database
<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-vipaddr</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

Command Mode

- /exec

show ip as-path-access-list

```
show ip as-path-access-list [ <aspl-name> | <aspl-cfg-name> ] [ __readonly__ TABLE_aspl <name> <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>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ip bgp

```
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 } ] } { rib-install | rib-uninstall | rib-pending } [ 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
rib-install	Routes installed in RIB
rib-uninstall	Routes not installed in RIB
rib-pending	Routes not acknowledged by RIB

Command Mode

- /exec

show ip cache

show ip cache { { brief | detail } } { { interface [<intf>] } } [operational]

Syntax Description

show	Show running system information
ip	Display IP information
cache	Display ip cache
brief	Display summary of ip interface status and configuration
detail	Display detailed information of ip interface status and configuration
operational	(Optional) Display only interfaces that are administratively enabled
interface	Display ip related interface information
<i>intf</i>	(Optional) Interface name to display

Command Mode

- /exec

show ip client

```
show ip client [ <client-name> ] [ __readonly__ [ TABLE_ip_clnt [ TABLE_clnt { <clnt-name> <clnt-uid>
<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)
TABLE_ip_clnt	(Optional)
TABLE_clnt	(Optional)
<i>clnt-name</i>	(Optional)
<i>clnt-uid</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> <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>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ip debug

show ip debug

Syntax Description

show	Show running system information
ip	Display IP information
debug	Display IP debug-filter configuration

Command Mode

- /exec

show ip dhcp global statistics

```
show ip dhcp global statistics [ __readonly__ <pkts_processed> <pkts_rcvd_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_unknown_pkt>
<pkts_dropped_relay_disable> <pkts_dropped_no_binding_entry> <pkts_dropped_interface_error>
<pkts_dropped_max_hops_exceeded> ]
```

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_rcvd_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

Command Mode

- /exec

show ip dhcp option82 suboption info interface

show ip dhcp option82 suboption info interface [<intf>] [__readonly__ TABLE_intf_option82 <intf_header> <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>TABLE_intf_option82</i>	(Optional)
<i>intf_header</i>	(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_intfs_hdr> [ TABLE_intf<smart_relay_enabled_intfs> ] <subnet_bcast_intfs_hdr> [ TABLE_intf
<subnet_bcast_enabled_intfs> ] <trusted_port_intfs_hdr> [ TABLE_intf<trusted_port_enabled_intfs> ]
<relay_src_addr_hsrp_hdr> [ TABLE_intf<src_addr_hsrp_enabled_intfs> ] <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_intfs_hdr</i>	(Optional) Smart relay interfaces header
TABLE_intf	(Optional)
<i>smart_relay_enabled_intfs</i>	(Optional) smart-relay enabled interfaces
<i>subnet_bcast_intfs_hdr</i>	(Optional) Subnet broadcast interfaces header
TABLE_intf	(Optional)
<i>subnet_bcast_enabled_intfs</i>	(Optional) subnet_bcast enabled interfaces
<i>trusted_port_intfs_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
<i>__readonly__</i>	(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 eigrp route-map statistics

```
show ip eigrp [ <eigrp-ptag> ] route-map statistics { { redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag>
| static | direct | amt | lisp } } | table-map } [ 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
eigrp	Display EIGRP 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
<i>eigrp-ptag</i>	(Optional) Process tag
route-map	Route-map related information
statistics	Route-map statistics
redistribute	Redistribute information from another routing protocol
table-map	Tablemap information
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
isis	IS-IS Routing for IPv4
ospf	Open Shortest Path First (OSPF)
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>tag</i>	Process tag
static	Static routes
direct	Directly connected
amt	AMT Anycast prefix
lisp	LISP EID-prefixes

<i>__readonly__</i>	(Optional)
<i>TABLE_asn</i>	(Optional) AS number table
<i>asn</i>	(Optional) AS number
<i>TABLE_vrf</i>	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
<i>TABLE_rmap</i>	(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
<i>TABLE_cmd</i>	(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 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)
<i>TABLE_extcl</i>	(Optional)
<i>name</i>	(Optional)
<i>action</i>	(Optional)
<i>rule</i>	(Optional)

Command Mode

- /exec

show ip fib adjacency

```
show ip fib adjacency [ <aif> ] [ <anh> ] [ module <module> ] [ __readonly__ <adj-count> <nexthop>
<rewinfo> <interface> ]
```

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
adjacency	display adjacency information
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next hop
module	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(Optional)
<i>adj-count</i>	(Optional) total adj count
<i>nexthop</i>	(Optional) next hop address
<i>rewinfo</i>	(Optional) rewrite information
<i>interface</i>	(Optional) output interface

Command Mode

- /exec

show ip fib interfaces

show ip fib interfaces [module <module>] [__readonly__ <intf> <v4adjcnt> <v6adjcnt> <rpfmode>]

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
interfaces	show fib interface info
__readonly__	(Optional)
<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>rpfmode</i>	(Optional) uRPF mode

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 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 mroute txlist

show ip fib mroute txlist [module <module>]

Syntax Description

show	
ip	Display IP information
fib	Forwarding information
mroute	display IP mcast routing table
txlist	display routes in the txlist
module	(Optional) slot
<i>module</i>	(Optional) slot number

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> ] [ TABLE_vrf { [ <vrf_name_out> ] [
<table_name> ] [ TABLE_prefix { [ <pfx> ] [ TABLE_path { [ <nexthop> | <special> ] [ <intf> ] } ] } ] } ] ] ]
```

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	(Optional) display info per vpn-id
<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
<i>drop</i>	(Optional) display routes via drop adjacency
<i>glean</i>	(Optional) display routes via glean adjacency
<i>punt</i>	(Optional) display routes via punt adjacency
<i>module</i>	(Optional) slot
<i>module</i>	(Optional) slot number
<i>__readonly__</i>	(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)
TABLE_vrf	(Optional) vrf table
<i>vrf_name_out</i>	(Optional) VRF name
<i>table_name</i>	(Optional) table name
TABLE_prefix	(Optional) all xml prefix entries
<i>px</i>	(Optional) ipv4 prefix
TABLE_path	(Optional) path table
<i>nexthop</i>	(Optional) next hop address
<i>special</i>	(Optional) special adjacencies
<i>intf</i>	(Optional) output interface

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	(Optional) display info per vpn-id
<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

<code>drop</code>	(Optional) display routes via drop adjacency
<code>glean</code>	(Optional) display routes via glean adjacency
<code>punt</code>	(Optional) display routes via punt adjacency
<code>module</code>	(Optional) slot
<i>module</i>	(Optional) slot number
<code>__readonly__</code>	(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 fib route recovered

show ip fib route recovered

Syntax Description

show	
ip	ipv4
fib	display fib information
route	display IP routing table
recovered	log of routes recovered after TCAM free condition

Command Mode

- /exec

show ip ftm statistics

show ip ftm statistics

Syntax Description

show	Show running system information
ip	Display IP information
ftm	FTM API
statistics	Statistics

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 event-history

show ip igmp [internal] event-history { errors | msgs | <igmp-event-hist-buf-name> | statistics }

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
internal	(Optional) Commands for internal use
event-history	Show various event logs of IGMP
errors	Show error logs of IGMP
msgs	Show various message logs of IGMP
<i>igmp-event-hist-buf-name</i>	Show various logs of IGMP
statistics	Show state and size of buffer

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	(Optional) Display group summary
__readonly__	(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> ] [ <lmirt> ] [ <lmqc> ] [ <gt> ] [ <cg> ] [ <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> ] [ <v2ggddest> ] [ <v3ggddest> ] [ <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
__readonly__	(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
<i>__readonly__</i>	(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> ] [ <match_count>
] [ <compare_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

show ip igmp snooping event-history

```
show ip igmp snooping [ internal ] event-history { statistics | <igmp-snoop-event-hist-buf-name> }
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
internal	(Optional) Display IGMP snooping internal information
event-history	Show various event logs of IGMP Snooping
statistics	Show state and size of the buffers
<i>igmp-snoop-event-hist-buf-name</i>	Show contents of event-history buffer

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> [ <srsf> ] [ <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 <bidid> ] [ 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>bidid</i>	(Optional) Specify BD
detail	(Optional) Display detailed mrouter information
<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
<i>__readonly__</i>	(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
<i>__readonly__</i>	(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 snmp mib adminMode

show ip igmp snooping snmp mib adminMode [__readonly__ <cisAdminMode>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
adminMode	Indicates the administrative snooping mode of IGMP Snooping feature
__readonly__	(Optional) Read Only
<i>cisAdminMode</i>	(Optional) mib object cisAdminMode

Command Mode

- /exec

show ip igmp snooping snmp mib aliasingMode

show ip igmp snooping snmp mib aliasingMode [*__readonly__* <*cisAddressAliasingMode*>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
aliasingMode	Indicates the current IGMP Address Aliasing Mode of the device
<i>__readonly__</i>	(Optional) Read Only
<i>cisAddressAliasingMode</i>	(Optional) mib object <i>cisAddressAliasingMode</i>

Command Mode

- /exec

show ip igmp snooping snmp mib cisV3ProcessEnableOperStatus

```
show ip igmp snooping snmp mib cisV3ProcessEnableOperStatus [ __readonly__
<cisV3ProcessEnabledOperStatus> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
cisV3ProcessEnableOperStatus	Indicates the current operational status of IGMP v3 processing in the system
__readonly__	(Optional) Read Only
<i>cisV3ProcessEnabledOperStatus</i>	(Optional) mib object cisV3ProcessEnabledOperStatus

Command Mode

- /exec

show ip igmp snooping snmp mib explicitTrackingTable

```
show ip igmp snooping snmp mib explicitTrackingTable [ vlan <cisVlanIndex-in> ] [ __readonly__
TABLE_cisVlanExplicitTrackingTable <cisVlanIndex-out> <cisVlanExplicitTrackingEnabled>
<cisVlanExplicitTrackingLimit> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
explicitTrackingTable	Show mib table cisVlanExplicitTrackingTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<i>TABLE_cisVlanExplicitTrackingTable</i>	(Optional)
<i>cisVlanIndex-out</i>	(Optional) mib table index cisVlanIndex
<i>cisVlanExplicitTrackingEnabled</i>	(Optional) mib object cisVlanExplicitTrackingEnabled
<i>cisVlanExplicitTrackingLimit</i>	(Optional) mib object cisVlanExplicitTrackingLimit

Command Mode

- /exec

show ip igmp snooping snmp mib fallBackTime

```
show ip igmp snooping snmp mib fallBackTime [ __readonly__ <cisFallbackTime> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
fallBackTime	Indicates the time the IGMP address aliasing mode is fallback
__readonly__	(Optional) Read Only
<i>cisFallbackTime</i>	(Optional) mib object cisFallbackTime

Command Mode

- /exec

show ip igmp snooping snmp mib fastBlockEnabled

show ip igmp snooping snmp mib fastBlockEnabled [__readonly__ <cisFastBlockEnabled>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
fastBlockEnabled	Indicates whether Fast-Block mechanism has been enabled for the system
__readonly__	(Optional) Read Only
<i>cisFastBlockEnabled</i>	(Optional) mib object cisFastBlockEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib fastleaveenabled

show ip igmp snooping snmp mib fastleaveenabled [__readonly__ <cisFastLeaveEnabled>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
fastleaveenabled	Check if fastleave is enabled
__readonly__	(Optional) Read Only
<i>cisFastLeaveEnabled</i>	(Optional) mib object cisFastLeaveEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib filterStatsTable

```
show ip igmp snooping snmp mib filterStatsTable [ interface <ifIndex-in> vlan <cisFilterStatsVlanNumber-in>
] [ __readonly__ TABLE_cisFilterStatsTable <ifIndex-out> <cisFilterStatsVlanNumber-out>
<cisFilterAccessGroupDenied> <cisFilterLimitDenied> <cisFilterTotalLimitDenied>
<cisFilterMinVersionDenied> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
filterStatsTable	Display VLAN/BD Filter Group
interface	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
vlan	(Optional) Display Interface access group VLAN/BD information
<i>cisFilterStatsVlanNumber-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_cisFilterStatsTable	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisFilterStatsVlanNumber-out</i>	(Optional) mib table index cisFilterStatsVlanNumber
<i>cisFilterAccessGroupDenied</i>	(Optional) mib object cisFilterAccessGroupDenied
<i>cisFilterLimitDenied</i>	(Optional) mib object cisFilterLimitDenied
<i>cisFilterTotalLimitDenied</i>	(Optional) mib object cisFilterTotalLimitDenied
<i>cisFilterMinVersionDenied</i>	(Optional) mib object cisFilterMinVersionDenied

Command Mode

- /exec

show ip igmp snooping snmp mib ifAccessGroupTable

```
show ip igmp snooping snmp mib ifAccessGroupTable [ interface <ifIndex-in> vlan <cisIfAccessGroupVlan-in>
] [ __readonly__ TABLE_cisIfAccessGroupTable <ifIndex-out> <cisIfAccessGroupVlan-out>
<cisIfAccessGroupsChannelsAllowed> <cisIfAccessGroupStorageType> <cisIfAccessGroupRowStatus> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
ifAccessGroupTable	Display interface access group
interface	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
vlan	(Optional) Display Interface access group VLAN/BD information
<i>cisIfAccessGroupVlan-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_cisIfAccessGroupTable	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisIfAccessGroupVlan-out</i>	(Optional) mib table index cisIfAccessGroupVlan
<i>cisIfAccessGroupsChannelsAllowed</i>	(Optional) mib object cisIfAccessGroupsChannelsAllowed
<i>cisIfAccessGroupStorageType</i>	(Optional) mib object cisIfAccessGroupStorageType
<i>cisIfAccessGroupRowStatus</i>	(Optional) mib object cisIfAccessGroupRowStatus

Command Mode

- /exec

show ip igmp snooping snmp mib ifConfigTable

```
show ip igmp snooping snmp mib ifConfigTable [ interface <ifIndex-in> ] [ __readonly__
TABLE_cisIfConfigTable <ifIndex-out> <cisIfTopoChangeFloodEnabled> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
ifConfigTable	Display interface configuration
interface	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
<i>__readonly__</i>	(Optional)
<i>TABLE_cisIfConfigTable</i>	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisIfTopoChangeFloodEnabled</i>	(Optional) mib object cisIfTopoChangeFloodEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib ifLimitTable

```
show ip igmp snooping snmp mib ifLimitTable [ interface <ifIndex-in> vlan <cisIfLimitVlanNumber-in> ]
[ __readonly__ TABLE_cisIfLimitTable <ifIndex-out> <cisIfLimitVlanNumber-out> <cisIfLimitMax>
<cisIfLimitExcludeAccessGrp> <cisIfLimitStorageType> <cisIfLimitRowStatus> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
ifLimitTable	Display interface configuration
interface	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
vlan	(Optional) Display Interface Limit VLAN/BD information
<i>cisIfLimitVlanNumber-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_cisIfLimitTable	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisIfLimitVlanNumber-out</i>	(Optional) mib table index cisIfLimitVlanNumber
<i>cisIfLimitMax</i>	(Optional) mib object cisIfLimitMax
<i>cisIfLimitExcludeAccessGrp</i>	(Optional) mib object cisIfLimitExcludeAccessGrp
<i>cisIfLimitStorageType</i>	(Optional) mib object cisIfLimitStorageType
<i>cisIfLimitRowStatus</i>	(Optional) mib object cisIfLimitRowStatus

Command Mode

- /exec

show ip igmp snooping snmp mib ifLimitTotalTable

```
show ip igmp snooping snmp mib ifLimitTotalTable [ interface <ifIndex-in> ] [ __readonly__
TABLE_cisIfLimitTotalTable <ifIndex-out> <cisIfLimitTotalLimitMax> <cisIfLimitTotalExcludeAccessGrp>
<cisIfLimitTotalStorageType> <cisIfLimitTotalRowStatus> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
ifLimitTotalTable	Display interface configuration
interface	(Optional) Display interface
<i>ifIndex-in</i>	(Optional) Interface Index
<i>__readonly__</i>	(Optional)
<i>TABLE_cisIfLimitTotalTable</i>	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisIfLimitTotalLimitMax</i>	(Optional) mib object cisIfLimitTotalLimitMax
<i>cisIfLimitTotalExcludeAccessGrp</i>	(Optional) mib object cisIfLimitTotalExcludeAccessGrp
<i>cisIfLimitTotalStorageType</i>	(Optional) mib object cisIfLimitTotalStorageType
<i>cisIfLimitTotalRowStatus</i>	(Optional) mib object cisIfLimitTotalRowStatus

Command Mode

- /exec

show ip igmp snooping snmp mib igmpsnoopingenabled

show ip igmp snooping snmp mib igmpsnoopingenabled [__readonly__ <cisIgmpSnoopingEnabled>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
igmpsnoopingenabled	Check if IGMP snooping is enabled
__readonly__	(Optional) Read Only
<i>cisIgmpSnoopingEnabled</i>	(Optional) mib object cisIgmpSnoopingEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib interfaceStatsTable

```
show ip igmp snooping snmp mib interfaceStatsTable [ interface <ifIndex-in> ] [ __readonly__
TABLE_cisInterfaceStatsTable <ifIndex-out> <cisTxGeneralQueries> <cisTxGroupSpecificQueries>
<cisTxReports> <cisTxLeaves> <cisRxGeneralQueries> <cisRxGroupSpecificQueries> <cisRxReports>
<cisRxLeaves> <cisRxValidPackets> <cisRxInvalidPackets> <cisRxOtherPackets>
<cisRxMACGeneralQueries> <cisRxTopoNotifications> <cisV3Allows> <cisV3Blocks> <cisV3IsIncluded>
<cisV3IsExcluded> <cisV3ToIncluded> <cisV3ToExcluded> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
interfaceStatsTable	Display interface stats
interface	(Optional) Display interface information
<i>ifIndex-in</i>	(Optional) Interface Index
<i>__readonly__</i>	(Optional)
<i>TABLE_cisInterfaceStatsTable</i>	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisTxGeneralQueries</i>	(Optional) mib object cisTxGeneralQueries
<i>cisTxGroupSpecificQueries</i>	(Optional) mib object cisTxGroupSpecificQueries
<i>cisTxReports</i>	(Optional) mib object cisTxReports
<i>cisTxLeaves</i>	(Optional) mib object cisTxLeaves
<i>cisRxGeneralQueries</i>	(Optional) mib object cisRxGeneralQueries
<i>cisRxGroupSpecificQueries</i>	(Optional) mib object cisRxGroupSpecificQueries
<i>cisRxReports</i>	(Optional) mib object cisRxReports
<i>cisRxLeaves</i>	(Optional) mib object cisRxLeaves
<i>cisRxValidPackets</i>	(Optional) mib object cisRxValidPackets
<i>cisRxInvalidPackets</i>	(Optional) mib object cisRxInvalidPackets

<i>cisRxOtherPackets</i>	(Optional) mib object cisRxOtherPackets
<i>cisRxMACGeneralQueries</i>	(Optional) mib object cisRxMACGeneralQueries
<i>cisRxTopoNotifications</i>	(Optional) mib object cisRxTopoNotifications
<i>cisV3Allows</i>	(Optional) mib object cisV3Allows
<i>cisV3Blocks</i>	(Optional) mib object cisV3Blocks
<i>cisV3IsIncluded</i>	(Optional) mib object cisV3IsIncluded
<i>cisV3IsExcluded</i>	(Optional) mib object cisV3IsExcluded
<i>cisV3ToIncluded</i>	(Optional) mib object cisV3ToIncluded
<i>cisV3ToExcluded</i>	(Optional) mib object cisV3ToExcluded

Command Mode

- /exec

show ip igmp snooping snmp mib lastMemeberQueryCount

```
show ip igmp snooping snmp mib lastMemeberQueryCount [ __readonly__ <cisLastMemberQueryCount>
]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
lastMemeberQueryCount	Specifies the Last Member Query Count value of this device
__readonly__	(Optional) Read Only
<i>cisLastMemberQueryCount</i>	(Optional) mib object cisLastMemberQueryCount

Command Mode

- /exec

show ip igmp snooping snmp mib lastMemeberQueryInterval

```
show ip igmp snooping snmp mib lastMemeberQueryInterval [ __readonly__ <cisLastMemberQueryInterval> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
lastMemeberQueryInterval	Specifies the IGMP Last Member Query Interval of this device
__readonly__	(Optional) Read Only
<i>cisLastMemberQueryInterval</i>	(Optional) mib object cisLastMemberQueryInterval

Command Mode

- /exec

show ip igmp snooping snmp mib leaveQueryType

show ip igmp snooping snmp mib leaveQueryType [__readonly__ <cisLeaveQueryType>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
leaveQueryType	Indicates type of leave query
__readonly__	(Optional) Read Only
<i>cisLeaveQueryType</i>	(Optional) mib object cisLeaveQueryType

Command Mode

- /exec

show ip igmp snooping snmp mib mcastGroupTable

```
show ip igmp snooping snmp mib mcastGroupTable [ vlan <cisMcastGroupVlanIndex-in>
<cisMcastGroupAddressType-in> <cisMcastGroupAddress-in> ] [ __readonly__ TABLE_cisMcastGroupTable
<cisMcastGroupVlanIndex-out> <cisMcastGroupAddressType-out> <cisMcastGroupAddress-out>
<cisMcastGroupFilterMode> <cisMcastGroupIgmpVersion> <cisMcastGroupIncludeHostCount>
<cisMcastGroupExcludeHostCount> <cisMcastGroupPortList> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
mcastGroupTable	Show mib table cisMcastGroupTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMcastGroupVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>cisMcastGroupAddressType-in</i>	(Optional) Address type
<i>cisMcastGroupAddress-in</i>	(Optional) Group address
<i>__readonly__</i>	(Optional)
TABLE_cisMcastGroupTable	(Optional)
<i>cisMcastGroupVlanIndex-out</i>	(Optional) mib table index cisMcastGroupVlanIndex
<i>cisMcastGroupAddressType-out</i>	(Optional) mib table index cisMcastGroupAddressType
<i>cisMcastGroupAddress-out</i>	(Optional) mib table index cisMcastGroupAddress
<i>cisMcastGroupFilterMode</i>	(Optional) mib object cisMcastGroupFilterMode
<i>cisMcastGroupIgmpVersion</i>	(Optional) mib object cisMcastGroupIgmpVersion
<i>cisMcastGroupIncludeHostCount</i>	(Optional) mib object cisMcastGroupIncludeHostCount
<i>cisMcastGroupExcludeHostCount</i>	(Optional) mib object cisMcastGroupExcludeHostCount
<i>cisMcastGroupPortList</i>	(Optional) mib object cisMcastGroupPortList

Command Mode

- /exec

show ip igmp snooping snmp mib mcastRouterCfgTable

```
show ip igmp snooping snmp mib mcastRouterCfgTable [ interface <ifIndex-in> vlan
<cisMcastRouterVlanIndex-in> ] [ __readonly__ TABLE_cisMcastRouterCfgTable <ifIndex-out>
<cisMcastRouterVlanIndex-out> <cisMcastRouterType> <cisMcastRouterRowStatus> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
mcastRouterCfgTable	show mib table cisMcastRouterCfgTable
interface	(Optional) Display Mcast Router Interface Information
<i>ifIndex-in</i>	(Optional) Specify the Mcast router interface
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMcastRouterVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
TABLE_cisMcastRouterCfgTable	(Optional)
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisMcastRouterVlanIndex-out</i>	(Optional) mib table index cisMcastRouterVlanIndex
<i>cisMcastRouterType</i>	(Optional) mib object cisMcastRouterType
<i>cisMcastRouterRowStatus</i>	(Optional) mib object cisMcastRouterRowStatus

Command Mode

- /exec

show ip igmp snooping snmp mib mcastRouterConfigTable

```
show ip igmp snooping snmp mib mcastRouterConfigTable [ vlan <cisMcastRouterConfigVlanIndex-in>
interface <ifIndex-in> ] [ __readonly__ TABLE_cisMcastRouterConfigTable <ifIndex-out>
<cisMcastRouterConfigVlanIndex-out> <cisMcastRouterConfigRouterType>
<cisMcastRouterConfigStorageType> <cisMcastRouterConfigRowStatus> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
mcastRouterConfigTable	show mib table cisMcastRouterConfigTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMcastRouterConfigVlanIndex-in</i>	(Optional) Specify VLAN/BD
interface	(Optional) Display Mcast Router Interface Information
<i>ifIndex-in</i>	(Optional) Specify the Mcast router interface index
__readonly__	(Optional)
TABLE_cisMcastRouterConfigTable	(Optional)
<i>cisMcastRouterConfigVlanIndex-out</i>	(Optional) mib table index cisMcastRouterConfigVlanIndex
<i>ifIndex-out</i>	(Optional) mib table index ifIndex
<i>cisMcastRouterConfigRouterType</i>	(Optional) mib object cisMcastRouterConfigRouterType
<i>cisMcastRouterConfigStorageType</i>	(Optional) mib object cisMcastRouterConfigStorageType
<i>cisMcastRouterConfigRowStatus</i>	(Optional) mib object cisMcastRouterConfigRowStatus

Command Mode

- /exec

show ip igmp snooping snmp mib multicastGroupConfigTable

```
show ip igmp snooping snmp mib multicastGroupConfigTable [ vlan <cisMulticastGroupConfVlanIndex-in>
<cisMulticastGroupConfCeVlanIndex-in> <cisMulticastGroupConfAddressType-in>
<cisMulticastGroupConfAddress-in> <cisMulticastGroupConfSourceAddress-in>
<cisMulticastGroupConfPortRange-in> ] [ __readonly__ TABLE_cisMulticastGroupConfigTable
<cisMulticastGroupConfVlanIndex-out> <cisMulticastGroupConfCeVlanIndex-out>
<cisMulticastGroupConfAddressType-out> <cisMulticastGroupConfAddress-out>
<cisMulticastGroupConfSourceAddress-out> <cisMulticastGroupConfPortRange-out>
<cisMulticastGroupConfPortList> <cisMulticastGroupConfStorageType> <cisMulticastGroupConfRowStatus>
]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
multicastGroupConfigTable	show mib table cisMulticastGroupConfigTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMulticastGroupConfVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>cisMulticastGroupConfCeVlanIndex-in</i>	(Optional) Specify consumer edge VLAN/BD
<i>cisMulticastGroupConfAddressType-in</i>	(Optional) Group Address Type
<i>cisMulticastGroupConfAddress-in</i>	(Optional) Group address
<i>cisMulticastGroupConfSourceAddress-in</i>	(Optional) source address
<i>cisMulticastGroupConfPortRange-in</i>	(Optional) port Range
<i>__readonly__</i>	(Optional)
TABLE_cisMulticastGroupConfigTable	(Optional)
<i>cisMulticastGroupConfVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupConfVlanIndex
<i>cisMulticastGroupConfCeVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupConfCeVlanIndex
<i>cisMulticastGroupConfAddressType-out</i>	(Optional) mib table index cisMulticastGroupConfAddressType
<i>cisMulticastGroupConfAddress-out</i>	(Optional) mib table index cisMulticastGroupConfAddress
<i>cisMulticastGroupConfSourceAddress-out</i>	(Optional) mib table index cisMulticastGroupConfSourceAddress

<i>cisMulticastGroupConfPortRange-out</i>	(Optional) mib table index cisMulticastGroupConfPortRange
<i>cisMulticastGroupConfPortList</i>	(Optional) mib object cisMulticastGroupConfPortList
<i>cisMulticastGroupConfStorageType</i>	(Optional) mib object cisMulticastGroupConfStorageType
<i>cisMulticastGroupConfRowStatus</i>	(Optional) mib object index cisMulticastGroupConfRowStatus

Command Mode

- /exec

show ip igmp snooping snmp mib multicastGroupPortListTable

```
show ip igmp snooping snmp mib multicastGroupPortListTable [ vlan <cisMulticastGroupVlanIndex-in>
<cisMulticastGroupCeVlanIndex-in> <cisMulticastGroupAddressType-in> <cisMulticastGroupAddress-in>
<cisMulticastGroupSourceAddress-in> <cisMulticastGroupPortRangeIndex-in> ] [ __readonly__
TABLE_<cisMulticastGroupPortListTable <cisMulticastGroupVlanIndex-out>
<cisMulticastGroupCeVlanIndex-out> <cisMulticastGroupAddressType-out> <cisMulticastGroupAddress-out>
<cisMulticastGroupSourceAddress-out> <cisMulticastGroupPortRangeIndex-out> <cisMulticastGroupPortList>
]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
multicastGroupPortListTable	show mib table multicastGroupPortListTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMulticastGroupVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>cisMulticastGroupCeVlanIndex-in</i>	(Optional) Specify consumer edge VLAN/BD
<i>cisMulticastGroupAddressType-in</i>	(Optional) Group Address Type
<i>cisMulticastGroupAddress-in</i>	(Optional) Group address
<i>cisMulticastGroupSourceAddress-in</i>	(Optional) source address
<i>cisMulticastGroupPortRangeIndex-in</i>	(Optional) port Range Index
__readonly__	(Optional)
TABLE_<cisMulticastGroupPortListTable	(Optional)
<i>cisMulticastGroupVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupVlanIndex
<i>cisMulticastGroupCeVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupCeVlanIndex
<i>cisMulticastGroupAddressType-out</i>	(Optional) mib table index cisMulticastGroupAddressType
<i>cisMulticastGroupAddress-out</i>	(Optional) mib table index cisMulticastGroupAddress
<i>cisMulticastGroupSourceAddress-out</i>	(Optional) mib table index cisMulticastGroupSourceAddress
<i>cisMulticastGroupPortRangeIndex-out</i>	(Optional) mib table index cisMulticastGroupPortRangeIndex

<i>cisMulticastGroupPortList</i>	(Optional) mib object cisMulticastGroupPortList
----------------------------------	---

Command Mode

- /exec

show ip igmp snooping snmp mib multicastGroupTable

```
show ip igmp snooping snmp mib multicastGroupTable [ vlan <cisMulticastGroupVlanIndex-in>
<cisMulticastGroupCeVlanIndex-in> <cisMulticastGroupAddressType-in> <cisMulticastGroupAddress-in>
<cisMulticastGroupSourceAddress-in> ] [ __readonly__ TABLE_cisMulticastGroupTable
<cisMulticastGroupVlanIndex-out> <cisMulticastGroupCeVlanIndex-out>
<cisMulticastGroupAddressType-out> <cisMulticastGroupAddress-out>
<cisMulticastGroupSourceAddress-out> <cisMulticastGroupGroupType> <cisMulticastGroupIgmpVersion>
<cisMulticastGroupSourceUpTime> <cisMulticastGroupSourceExpires> <cisMulticastGroupInclHostCount>
<cisMulticastGroupExclHostCount> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
multicastGroupTable	show mib table multicastGroupTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisMulticastGroupVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>cisMulticastGroupCeVlanIndex-in</i>	(Optional) Specify consumer edge VLAN/BD
<i>cisMulticastGroupAddressType-in</i>	(Optional) Group Address Type
<i>cisMulticastGroupAddress-in</i>	(Optional) Group address
<i>cisMulticastGroupSourceAddress-in</i>	(Optional) Source address
<i>__readonly__</i>	(Optional)
TABLE_cisMulticastGroupTable	(Optional)
<i>cisMulticastGroupVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupVlanIndex
<i>cisMulticastGroupCeVlanIndex-out</i>	(Optional) mib table index cisMulticastGroupCeVlanIndex
<i>cisMulticastGroupAddressType-out</i>	(Optional) mib table index cisMulticastGroupAddressType
<i>cisMulticastGroupAddress-out</i>	(Optional) mib table index cisMulticastGroupAddress
<i>cisMulticastGroupSourceAddress-out</i>	(Optional) mib table index cisMulticastGroupSourceAddress
<i>cisMulticastGroupGroupType</i>	(Optional) mib object cisMulticastGroupGroupType

<i>cisMulticastGroupIgmpVersion</i>	(Optional) mib object cisMulticastGroupIgmpVersion
<i>cisMulticastGroupSourceUpTime</i>	(Optional) mib object cisMulticastGroupSourceUpTime
<i>cisMulticastGroupSourceExpires</i>	(Optional) mib object cisMulticastGroupSourceExpires
<i>cisMulticastGroupInclHostCount</i>	(Optional) mib object cisMulticastGroupInclHostCount
<i>cisMulticastGroupExclHostCount</i>	(Optional) mib object cisMulticastGroupExclHostCount

Command Mode

- /exec

show ip igmp snooping snmp mib operMode

show ip igmp snooping snmp mib operMode [__readonly__ <cisOperMode>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
operMode	Indicates the operational snooping mode of the device
__readonly__	(Optional) Read Only
<i>cisOperMode</i>	(Optional) mib object cisOperMode

Command Mode

- /exec

show ip igmp snooping snmp mib querierTable

```
show ip igmp snooping snmp mib querierTable [ vlan <cisIgmpQuerierVlanIndex-in> ] [ __readonly__
TABLE_cisIgmpQuerierTable <cisIgmpQuerierVlanIndex-out> <cisIgmpQuerierEnabled>
<cisIgmpQuerierState> <cisIgmpQuerierVersion> <cisIgmpQuerierAddressType> <cisIgmpQuerierAddress>
<cisIgmpQuerierInterface> <cisIgmpQuerierTcnQueryCount> <cisIgmpQuerierTcnQueryInterval>
<cisIgmpQuerierTimerExpiry> <cisIgmpQuerierMaxResponseTime> <cisIgmpQuerierQueryInterval>
<cisIgmpQuerierAdminAddressType> <cisIgmpQuerierAdminAddress> <cisIgmpQuerierAdminVersion>
<cisIgmpQuerierTcnQueryPending> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
querierTable	Show mib table cisIgmpQuerierTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisIgmpQuerierVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<i>TABLE_cisIgmpQuerierTable</i>	(Optional)
<i>cisIgmpQuerierVlanIndex-out</i>	(Optional) mib table index cisIgmpQuerierVlanIndex
<i>cisIgmpQuerierEnabled</i>	(Optional) mib object cisIgmpQuerierEnabled
<i>cisIgmpQuerierState</i>	(Optional) mib object cisIgmpQuerierState
<i>cisIgmpQuerierVersion</i>	(Optional) mib object cisIgmpQuerierVersion
<i>cisIgmpQuerierAddressType</i>	(Optional) mib object cisIgmpQuerierAddressType
<i>cisIgmpQuerierAddress</i>	(Optional) mib object cisIgmpQuerierAddress
<i>cisIgmpQuerierInterface</i>	(Optional) mib object cisIgmpQuerierInterface
<i>cisIgmpQuerierTcnQueryCount</i>	(Optional) mib object cisIgmpQuerierTcnQueryCount
<i>cisIgmpQuerierTcnQueryInterval</i>	(Optional) mib object cisIgmpQuerierTcnQueryInterval
<i>cisIgmpQuerierTimerExpiry</i>	(Optional) mib object cisIgmpQuerierTimerExpiry
<i>cisIgmpQuerierMaxResponseTime</i>	(Optional) mib object cisIgmpQuerierMaxResponseTime

<i>cisIgmpQuerierQueryInterval</i>	(Optional) mib object cisIgmpQuerierQueryInterval
<i>cisIgmpQuerierAdminAddressType</i>	(Optional) mib object cisIgmpQuerierAdminAddressType
<i>cisIgmpQuerierAdminAddress</i>	(Optional) mib object cisIgmpQuerierAdminAddress
<i>cisIgmpQuerierAdminVersion</i>	(Optional) mib object cisIgmpQuerierAdminVersion
<i>cisIgmpQuerierTcnQueryPending</i>	(Optional) mib object cisIgmpQuerierTcnQueryPending

Command Mode

- /exec

show ip igmp snooping snmp mib reportsuppressionenabled

```
show ip igmp snooping snmp mib reportsuppressionenabled [ __readonly__ <cisReportSuppressionEnabled> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
reportsuppressionenabled	Check if reportsuppression is enabled
__readonly__	(Optional) Read Only
<i>cisReportSuppressionEnabled</i>	(Optional) mib object cisReportSuppressionEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib robustnessVariable

show ip igmp snooping snmp mib robustnessVariable [__readonly__ <cisRobustnessVariable>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
robustnessVariable	Specifies the Robustness Variable of this device
__readonly__	(Optional) Read Only
<i>cisRobustnessVariable</i>	(Optional) mib object cisRobustnessVariable

Command Mode

- /exec

show ip igmp snooping snmp mib routerAlertCheckEnabled

```
show ip igmp snooping snmp mib routerAlertCheckEnabled [ __readonly__ <cisLastMemberQueryCount>
]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
routerAlertCheckEnabled	Specifies whether checking of Router-Alert option is enabled for IGMP traffic in the system
__readonly__	(Optional) Read Only
<i>cisLastMemberQueryCount</i>	(Optional) mib object cisLastMemberQueryCount

Command Mode

- /exec

show ip igmp snooping snmp mib sourceOnlyEntryAgingTime

```
show ip igmp snooping snmp mib sourceOnlyEntryAgingTime [ __readonly__
<cisSourceOnlyEntryAgingTime> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
sourceOnlyEntryAgingTime	Specifies the aging time in seconds for Source Only multicast entries
__readonly__	(Optional) Read Only
<i>cisSourceOnlyEntryAgingTime</i>	(Optional) mib object cisSourceOnlyEntryAgingTime

Command Mode

- /exec

show ip igmp snooping snmp mib sourceOnlyLearningEnabled

```
show ip igmp snooping snmp mib sourceOnlyLearningEnabled [ __readonly__
<cisSourceOnlyLearningEnabled> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
sourceOnlyLearningEnabled	Specifies whether Source Only multicast entries are learned by IGMP Snooping or not
__readonly__	(Optional) Read Only
<i>cisSourceOnlyLearningEnabled</i>	(Optional) mib object cisSourceOnlyLearningEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib tcnFloodQueryCount

```
show ip igmp snooping snmp mib tcnFloodQueryCount [ __readonly__ <cisTopoChangeFloodQueryCount> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
tcnFloodQueryCount	Specifies the flooding period for multicast traffic upon receiving Topology Change Notifications
__readonly__	(Optional) Read Only
<i>cisTopoChangeFloodQueryCount</i>	(Optional) mib object cisTopoChangeFloodQueryCount

Command Mode

- /exec

show ip igmp snooping snmp mib timeToLiveCheckEnabled

```
show ip igmp snooping snmp mib timeToLiveCheckEnabled [ __readonly__ <cisTimeToLiveCheckEnabled>
]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
timeToLiveCheckEnabled	Specifies whether Time-To-Live (TTL) check is enabled when processing IGMP packets in the system
__readonly__	(Optional) Read Only
<i>cisTimeToLiveCheckEnabled</i>	(Optional) mib object cisTimeToLiveCheckEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib topoChangeQuerySolicitEnabled

```
show ip igmp snooping snmp mib topoChangeQuerySolicitEnabled [ __readonly__
<cisTopoChangeQuerySolicitEnabled> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
topoChangeQuerySolicitEnabled	Specifies whether the device running IGMP Snooping will solicit IGMP General Queries from the Querier upon receiving a TCN
__readonly__	(Optional) Read Only
<i>cisTopoChangeQuerySolicitEnabled</i>	(Optional) mib object cisTopoChangeQuerySolicitEnabled

Command Mode

- /exec

show ip igmp snooping snmp mib v3ProcessEnabledAdminStatus

```
show ip igmp snooping snmp mib v3ProcessEnabledAdminStatus [ __readonly__
<cisV3ProcessEnabledAdminStatus> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
v3ProcessEnabledAdminStatus	Indicates the administrative status of IGMP v3 processing in the system
__readonly__	(Optional) Read Only
<i>cisV3ProcessEnabledAdminStatus</i>	(Optional) mib object cisV3ProcessEnabledAdminStatus

Command Mode

- /exec

show ip igmp snooping snmp mib v3SnoopingSupport

show ip igmp snooping snmp mib v3SnoopingSupport [__readonly__ <cisV3SnoopingSupport>]

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
v3SnoopingSupport	Indicates IGMP Snooping support for IGMPv3
__readonly__	(Optional) Read Only
<i>cisV3SnoopingSupport</i>	(Optional) mib object cisV3SnoopingSupport

Command Mode

- /exec

show ip igmp snooping snmp mib vlanFilterConfigTable

```
show ip igmp snooping snmp mib vlanFilterConfigTable [ vlan <cisVlanIndex-in> ] [ __readonly__
TABLE_cisVlanFilterConfigTable <cisVlanIndex-out> <cisVlanFilterAccessGroup> <cisVlanFilterLimitMax>
<cisVlanFilterLimitExclAccessGrp> <cisVlanFilterMinVersionAllowed> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
vlanFilterConfigTable	Display VLAN/BD Filter Group
vlan	(Optional) Display Interface access group VLAN/BD information
<i>cisVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<i>TABLE_cisVlanFilterConfigTable</i>	(Optional)
<i>cisVlanIndex-out</i>	(Optional) mib talbe index cisVlanIndex>
<i>cisVlanFilterAccessGroup</i>	(Optional) mib table index cisVlanFilterAccessGroup
<i>cisVlanFilterLimitMax</i>	(Optional) mib object cisVlanFilterLimitMax
<i>cisVlanFilterLimitExclAccessGrp</i>	(Optional) mib object cisVlanFilterLimitExclAccessGrp
<i>cisVlanFilterMinVersionAllowed</i>	(Optional) mib object cisVlanFilterMinVersionAllowed

Command Mode

- /exec

show ip igmp snooping snmp mib vlanconfigtable

```
show ip igmp snooping snmp mib vlanconfigtable [ vlan <cisVlanIndex-in> ] [ __readonly__
TABLE_cisVlanConfigTable <cisVlanIndex-out> <cisVlanIgmpSnoopingEnabled>
<cisVlanFastLeaveEnabled> <cisVlanIgmpSnoopingOperMode> <cisVlanIgmpSnoopingLearningMode>
<cisVlanReportSuppressionEnabled> <cisVlanLeaveQueryInterval> <cisVlanLastMemberQueryCount>
<cisVlanRobustnessVariable> <cisVlanTimeToLiveCheckEnabled> <cisVlanRouterAlertCheckEnabled> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
igmp	Display IGMP status and configuration
snooping	IGMP Snooping information
snmp	Show SNMP
mib	Show MIB table
vlanconfigtable	Show mib table cisVlanConfigTable
vlan	(Optional) Display VLAN/BD IGMP snooping membership information
<i>cisVlanIndex-in</i>	(Optional) Specify VLAN/BD
<i>__readonly__</i>	(Optional)
<i>TABLE_cisVlanConfigTable</i>	(Optional)
<i>cisVlanIndex-out</i>	(Optional) mib table index cisVlanIndex
<i>cisVlanIgmpSnoopingEnabled</i>	(Optional) mib object cisVlanIgmpSnoopingEnabled
<i>cisVlanFastLeaveEnabled</i>	(Optional) mib object cisVlanFastLeaveEnabled
<i>cisVlanIgmpSnoopingOperMode</i>	(Optional) mib object cisVlanIgmpSnoopingOperMode
<i>cisVlanIgmpSnoopingLearningMode</i>	(Optional) mib object cisVlanIgmpSnoopingLearningMode
<i>cisVlanReportSuppressionEnabled</i>	(Optional) mib object cisVlanReportSuppressionEnabled
<i>cisVlanLeaveQueryInterval</i>	(Optional) mib object cisVlanLeaveQueryInterval
<i>cisVlanLastMemberQueryCount</i>	(Optional) mib object cisVlanLastMemberQueryCount
<i>cisVlanRobustnessVariable</i>	(Optional) mib object cisVlanRobustnessVariable
<i>cisVlanTimeToLiveCheckEnabled</i>	(Optional) mib object cisVlanTimeToLiveCheckEnabled
<i>cisVlanRouterAlertCheckEnabled</i>	(Optional) mib object cisVlanRouterAlertCheckEnabled

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>vpccfsrls</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
<i>__readonly__</i>	(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_vrf <vrf-name-out> ] [ TABLE_intf
<intf-name> <proto-state> <link-state> <admin-state> <iod> [ <first_unnum_iod> ] <prefix> <subnet>
<masklen> [ TABLE_unnuminf <unnum-child-inf> ] [ TABLE_secondary_address <prefix1> <subnet1>
<masklen1> ] [ <num-addr> ] [ <vaddr-client> ] [ <vaddr-prefix> ] [ <vaddr-subnet> ] [ <vaddr-masklen> ]
[ <num-vaddr> ] [ <unnum-intf> ] [ <ip-disabled> ] [ <bcast-addr> ] [ TABLE_maddr <maddr> ] [
<num-maddr> ] [ <mtu> ] [ <pref> ] [ <tag> ] [ <proxy-arp> ] [ <lcl-proxy-arp> ] [ <mrouting> ] [
<icmp-redirect> ] [ <dir-bcast> ] [ <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> ] ] ] ]
```

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	(Optional) Display virtual IP addresses as well
__readonly__	(Optional)
TABLE_vrf	(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)
TABLE_maddr	(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-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)

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 lisp version-hash

```
show { ip | ipv6 } lisp version-hash { <eid-prefix> | <eid-prefix6> }
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 information
lisp	LISP show commands
version-hash	Display version-hash for EID-record
<i>eid-prefix</i>	Local IP EID-prefix from database-mapping command

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-pt

```
show ip local-pt [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
local-pt	Display local ip address ptree
vrf	(Optional) Clear information for particular VRF
<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 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	(Optional) logging hash data
__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 } | all }
] } } { route-map { <rmap-name> | <rmap-name> } | filter-list { <fltrlist-name> | <test_pol_name> } | {
community-list { <commlist-name> | <test_pol_name> } | extcommunity-list { <extcommmlist-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>extcommmlist-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

```
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 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	(Optional) private

Command Mode

- /exec

show ip msdp count

```
show ip msdp count [ <asn> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <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
__readonly__	(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 event-history

```
show ip msdp [ <asn> ] [ internal ] event-history { errors | msgs | <msdp-event-hist-buf-name> | statistics }
```

Syntax Description

show	Show running system information
ip	Display IP information
msdp	Display MSDP status and configuration
<i>asn</i>	(Optional) AS number
internal	(Optional) Commands for internal use
event-history	Show various event logs of MSDP
errors	Error logs of MSDP
msgs	Message logs of MSDP
<i>msdp-event-hist-buf-name</i>	Buffer
statistics	Buffer state

Command Mode

- /exec

show ip msdp mesh-group

```
show ip msdp mesh-group [ <mesh-group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
<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
__readonly__	(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> ] [ <rpf-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
__readonly__	(Optional)
TABLE_peer	(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> ] [ <seq_num> ] [ <action> ] [ [ TABLE_cmd [ <command>
] [ <match_count> ] [ <compare_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__ <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)
<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__ [ <out-vrf> ] [
<total-sa-count> ] [ TABLE_sa [ <src-addr> ] [ <grp-addr> ] [ <rp-addr> ] [ <out-asn> ] [ <peer-addr> ] [
<uptime> ] [ <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
<i>__readonly__</i>	(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__ [ <out-vrf> ] [
TABLE_source [ <source-addr> ] [ <is-count-ge-limit> ] [ <count> ] [ <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)
<i>out-vrf</i>	(Optional)
<i>TABLE_source</i>	(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__
<out-vrf> <select-err> <rcv-sel-err> { TABLE_peer <peer-address> <buffer-full> <rcv-buf-full> <fatal-err>
<rcv-fat-err> <would-block> <rcv-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)
<i>out-vrf</i>	(Optional)
<i>select-err</i>	(Optional)
<i>rcv-sel-err</i>	(Optional)
TABLE_peer	(Optional)
<i>peer-address</i>	(Optional)
<i>buffer-full</i>	(Optional)
<i>rcv-buf-full</i>	(Optional)
<i>fatal-err</i>	(Optional)
<i>rcv-fat-err</i>	(Optional)
<i>would-block</i>	(Optional)
<i>rcv-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__ [ <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)
<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

Syntax Description

show	Show running system information
ip	Display IP information
nat-alias	Display aliases registered by NAT module

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> <dynamic_timeout> [ <sampling_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>dynamic_timeout</i>	(Optional) Dynamic Timeout
<i>sampling_timeout</i>	(Optional) Sampling Timeout

Command Mode

- /exec

show ip nat translations

```
show ip nat translations [ vrf { <vrf-name> | <vrf-known-name> } ] [ verbose ] [ __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> ] [ <Flags> ] [
<In_stats_count> ] [ <Out_stats_count> ] [ <Entry_id> ] [ <State> ] [ <Group_id> ] [ <VRF> ] [ <Time_left>
] [ <Syn> ] [ <Fin_rst> } } ]
```

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
<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_tag> ] [ <dn_bit_ignore> ] <stateful_ha> <gr_ha> [
<gr_planned_only> ] [ <gr_notify_period> ] [ <gr_grace_period> ] [ <gr_state> ] [ <gr_last_status> ] [
<gr_helper_mode> ] <support_tos0_only> <support_opaque_lsa> [ <low_mem_cond> ] <is_asbr> <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> <no_discard_rt_ext> <no_discard_rt_int> [ <bfd_enabled> ] [ <passive_dflt>
] [ <name_lookup> ] [ { 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> <spf_runs> <last_spf_run_time> [ <rtr_lsa_throt> ] [
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_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_notify_period</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>bfd_enabled</i>	(Optional)
<i>name_lookup</i>	(Optional)
<i>passive_dflt</i>	(Optional)
<i>no_discard_rt_ext</i>	(Optional)
<i>no_discard_rt_int</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>spf_runs</i>	(Optional)
<i>last_spf_run_time</i>	(Optional)

<i>rtr_lsa_throt</i>	(Optional)
<i>TABLE_range</i>	(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
__readonly__	(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
| nssa-external ] [ area <area-id-ip> ] ] | external [ ext_tag <tag_val> ] | opaque-as ] [ <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_db2_lsa <name> [ <area> ] <id> <advrtr> <age>
<seqno> <cksum> [ <opaque_id> ] [ <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>adv-id</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
<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>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>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
<i>__readonly__</i>	(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 |
nssa-external ] [ area <area-id-ip> ] ] | external [ ext_tag <tag_val> ] | opaque-as [ <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_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_id> ] <advrtr> <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
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
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
detail	Display LSA in detail
<u>__readonly__</u>	(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_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_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 event-history

```
show ip ospf [ <tag> ] [ internal ] event-history { errors | msgs | statistics | adjacency | event | ha | flooding |
lsa | spf | redistribution | ldp | te | rib | hello | spf-trigger | cli | objstore }
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Show various event logs of OSPF
errors	Error logs
msgs	IPC logs
statistics	Show the state and size of the buffers
adjacency	Adjacency formation logs
event	Internal event logs
ha	HA and GR logs
flooding	LSA flooding logs
lsa	LSA generation and database logs
spf	SPF calculation logs
redistribution	Redistribution logs
ldp	LDP related logs
te	MPLS TE related logs
rib	RIB related logs
hello	Hello related logs
cli	Cli logs
spf-trigger	SPF TRIGGER related logs
objstore	DME OBJSTORE related logs

Command Mode

- /exec

show ip ospf event-history detail

```
show ip ospf [ <tag> ] [ internal ] event-history detail [ statistics ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Show event history of OSPF
detail	Show detailed event history information
statistics	(Optional) Show the state and size of the verbose history buffer

Command Mode

- /exec

show ip ospf ha

```
show ip ospf [ <tag> ] ha [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag>
<cname> <stateful> <pss_restored> <pss_state> <gr_enabled> <gr_grace_period> <gr_state> <gr_last_status>
<gr_helper_mode> ]
```

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
ha	High Availability status
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>stateful</i>	(Optional)
<i>pss_restored</i>	(Optional)
<i>pss_state</i>	(Optional)
<i>gr_enabled</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)

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> ] <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> ] [ <auth_type>
] [ <keychain_name> ] [ <keychain_ready> ] [ <auth_md5_keyid> ] [ <auth_keyid> ] [ <auth_algo> ] [
<link_lsa_cnt> ] [ <link_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
interface	OSPF enabled interface
<i>interface</i>	(Optional) OSPF enabled interface
private	(Optional) Developer-only statistics
<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>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>auth_keyid</i>	(Optional)
<i>auth_algo</i>	(Optional)
<i>link_lsa_cnt</i>	(Optional)
<i>link_lsa_crc</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

show ip ospf lsa-content-changed-list

```
show ip ospf [ <tag> ] lsa-content-changed-list { <ip-addr> | <neighbor-name> } <interface> [ __readonly__
[ TABLE_ctx <ptag> <cname> [ TABLE_lschg <nbr_rid> <intf> <nbr_addr> [ TABLE_lsa [ <type> ] [
<lsid> ] [ <advtr> ] [ <seqno> ] [ <cksum> ] [ <age> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
lsa-content-changed-list	LSAs that changed contents
interface	OSPF enabled interface
ip-addr	Neighbor router ID
neighbor-name	DNS Name of the neighbor
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_lschg	(Optional)
nbr_rid	(Optional)
intf	(Optional)
nbr_addr	(Optional)
TABLE_lsa	(Optional)
type	(Optional)
lsid	(Optional)
advtr	(Optional)
seqno	(Optional)
cksum	(Optional)
age	(Optional)

Command Mode

- /exec

show ip ospf memory

```
show ip ospf [ <tag> ] memory [ __readonly__ TABLE_mem <ptag> <byte_total> <byte_consumed>
<byte_overhead> <byte_allocated> <alloc_current> <alloc_created> <alloc_failed> <alloc_free> <bf_current>
<bf_created> <bf_failed> <bf_free> <bf_byte_consumed> <bf_32_current> <bf_32_created> <bf_32_failed>
<bf_32_free> <bf_32_byte_consumed> <slab_current> <slab_created> <slab_failed> <slab_free>
<slab_byte_consumed> <if_index_alloc_failed> <nbr_index_alloc_failed> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
memory	Memory usage statistics
<i>__readonly__</i>	(Optional)
<i>TABLE_mem</i>	(Optional)
<i>ptag</i>	(Optional)
<i>byte_total</i>	(Optional)
<i>byte_consumed</i>	(Optional)
<i>byte_overhead</i>	(Optional)
<i>byte_allocated</i>	(Optional)
<i>alloc_current</i>	(Optional)
<i>alloc_created</i>	(Optional)
<i>alloc_failed</i>	(Optional)
<i>alloc_free</i>	(Optional)
<i>bf_current</i>	(Optional)
<i>bf_created</i>	(Optional)
<i>bf_failed</i>	(Optional)
<i>bf_free</i>	(Optional)
<i>bf_byte_consumed</i>	(Optional)
<i>bf_32_current</i>	(Optional)
<i>bf_32_created</i>	(Optional)

<i>bf_32_failed</i>	(Optional)
<i>bf_32_free</i>	(Optional)
<i>bf_32_byte_consumed</i>	(Optional)
<i>slab_current</i>	(Optional)
<i>slab_created</i>	(Optional)
<i>slab_failed</i>	(Optional)
<i>slab_free</i>	(Optional)
<i>slab_byte_consumed</i>	(Optional)
<i>if_index_alloc_failed</i>	(Optional)
<i>nbr_index_alloc_failed</i>	(Optional)

Command Mode

- /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
__readonly__	(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> ] ] ]
```

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	(Optional) Developer-only statistics
__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>lsregrxmts</i>	(Optional)
<i>helloptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)
<i>lastmonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>acingtimer</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>sendsreq</i>	(Optional)
<i>sendsu</i>	(Optional)
<i>sendsurxmt</i>	(Optional)
<i>sendsack</i>	(Optional)
<i>sendsreqreply</i>	(Optional)
<i>dc</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

show ip ospf policy statistics

```
show ip ospf [ <inst> ] policy statistics { { redistribute { { bgp | eigrp } <as> | { isis | ospf | rip } <tag> | static
| direct | amt } } | { area <area-id-ip> filter-list { in | out } } } [ vrf { <vrf-name> | <vrf-known-name> | all }
] [ __readonly__ <ptag> TABLE_ctx <cname> ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>inst</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
policy	Display Policy related information
statistics	Display Route Filter statistics
redistribute	Statistics for redistribution
isis	ISO Intermediate-to-Intermediate (IS-IS)
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
ospf	Open Shortest Path First (OSPFv2)
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
rip	Routing Information Protocol (RIP)
static	Static
direct	Directly connected
amt	AMT anycast prefix
<i>tag</i>	Source protocol tag
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas

in	Filter networks sent to this area
out	Filter networks sent from this area
__readonly__	(Optional)
<i>ptag</i>	(Optional)
TABLE_ctx	(Optional)
<i>cname</i>	(Optional)

Command Mode

- /exec

Command Mode

- /exec

show ip ospf retransmission-list

```
show ip ospf [ <tag> ] retransmission-list { <routerid> | <router-name> } <interface> [ __readonly__ [
TABLE_ctx <ptag> <cname> [ TABLE_rxmit <nbr_rid> <intf> <nbr_addr> [ <timer_running> ] [ <timer_due>
] [ TABLE_lsa [ <type> ] [ <lsid> ] [ <advrtr> ] [ <seqno> ] [ <cksum> ] [ <age> ] ] ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
tag	(Optional) Process tag
retransmission-list	Link state retransmission list
routerid	Neighbor router ID
router-name	DNS Name of the router
interface	OSPF enabled interface
__readonly__	(Optional)
TABLE_ctx	(Optional)
ptag	(Optional)
cname	(Optional)
TABLE_rxmit	(Optional)
nbr_rid	(Optional)
intf	(Optional)
nbr_addr	(Optional)
timer_running	(Optional)
timer_due	(Optional)
TABLE_lsa	(Optional)
type	(Optional)
lsid	(Optional)
advrtr	(Optional)
seqno	(Optional)
cksum	(Optional)

<i>age</i>	(Optional)
------------	------------

Command Mode

- /exec

show ip ospf route

```
show ip ospf [ <tag> ] route [ <ip-addr> | <ip-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_rib> <direct> [ <area> ] [ <tag> ] [ <vlink_unresolved> ] [
TABLE_route_ubest_nh [ <ubest_nh_addr> ] [ <ubest_nh_intf> ] [ <ubest_cost> ] [ <distance> ] [
<ubest_nh_direct> ] [ <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
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
all_routes	(Optional) Display all OSPF routes
<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_rib</i>	(Optional)
<i>direct</i>	(Optional)
<i>area</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_in_rib</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 sham-links

```
show ip ospf [ <tag> ] sham-links [ brief ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__
TABLE_ctx <ptag> <cname> [ TABLE_slink <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> [ <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> ] [ <sum_total> ] [
<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> ] [ <dest_ip> ] [ <src_ip> ] [ <ifnum> ] [ <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
<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	(Optional) Display summary of OSPF sham links
<u>__readonly__</u>	(Optional)
<i>ptag</i>	(Optional)
TABLE_ctx	(Optional)
<i>cname</i>	(Optional)
TABLE_slink	(Optional)
<i>name</i>	(Optional)
<i>nbr_rid</i>	(Optional)

<i>if_state</i>	(Optional)
<i>transit_area</i>	(Optional)
<i>nh_intf</i>	(Optional)
<i>dc_enabled</i>	(Optional)
<i>nbr_addr</i>	(Optional)
<i>sum_total</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>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>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>lastnonhello</i>	(Optional)
<i>deadtimer</i>	(Optional)
<i>pacingtmer</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>dest_ip</i>	(Optional)
<i>src_ip</i>	(Optional)
<i>ifnum</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	(Optional) Developer-only statistics
<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>
] [ <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
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 traps-queue

show ip ospf [<tag>] traps-queue

Syntax Description

show	Show running system information
ip	Display IP information
ospf	Display OSPF status and configuration
<i>tag</i>	(Optional) Process tag
traps-queue	Show all the priority traps queue parameters

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_adj> ] [ <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
<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
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_vlink	(Optional)
<i>name</i>	(Optional)
<i>nbr_rid</i>	(Optional)
<i>if_state</i>	(Optional)
<i>transit_area</i>	(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>hellooptions</i>	(Optional)
<i>dbdoptions</i>	(Optional)

<i>lastnonhello</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)

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 overlay-traffic

show ip overlay-traffic

Syntax Description

show	Show running system information
ip	Display IP information
overlay-traffic	Display IP overlay software processed traffic statistics

Command Mode

- /exec

show ip pim bitfield

show ip pim bitfield

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
bitfield	Display compressed bitfield details

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)
TABLE_vrf	(Optional)
<i>out-context</i>	(Optional)
TABLE_RP	(Optional)
<i>rp-addr</i>	(Optional)
TABLE_ANYCAST	(Optional)
<i>arperr-count</i>	(Optional)
<i>anycastrp-addr</i>	(Optional)
<i>arp-interface</i>	(Optional)
<i>arp-error</i>	(Optional)
<i>configure-as-RP</i>	(Optional)
TABLE_MEMBER	(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

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 event-history

show ip pim [internal] event-history { errors | msgs | <pim-event-hist-buf-name> | statistics }

Syntax Description

show	Show running system information
ip	Display IP information
pim	PIM global configuration commands
internal	(Optional) Commands for internal use
event-history	Show various event logs of PIM
errors	Show error logs of PIM
msgs	Show various message logs of PIM
<i>pim-event-hist-buf-name</i>	Show event hist buffer name
statistics	Show the state and size of the buffer

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	(Optional) Commands for internal use
<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> ] [ <recv_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>recv_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	(Optional) Display detailed information
internal	(Optional) Commands for internal use
<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

show ip pim oif-list

```
show ip 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 <sgrprunelisoif-name> } ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
pim	Display PIM status and configuration
oif-list	Display interfaces for oif-list of PIM route
<i>source</i>	(Optional) Source address to display
<i>group</i>	Group address 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>vrf-name</i>	(Optional)
TABLE_grp	(Optional)
<i>mcast-addr</i>	(Optional)
<i>incoming-intf</i>	(Optional)
<i>rpf-nbr</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>sgrprunelistoif-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_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
ip	Display IP information
pim	PIM global configuration commands
policy	Policy related information
statistics	Policy statistics
register-policy	Show 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_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> <match_count> <compare_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	(Optional) Display details of each bitfield for PIM 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>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>vxlan-decap</i>	(Optional)
<i>vxlan-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
<i>__readonly__</i>	(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>
] [ <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	(Optional) Commands for internal use
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>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> <table-id> <count> <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	(Optional) Show detailed information
summary	(Optional) Show summarized information
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	(Optional) Show api values
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 <as> | { 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
<i>TABLE_vrf</i>	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
<i>TABLE_rmap</i>	(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
<i>TABLE_cmd</i>	(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

<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>ifname</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>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 router-id

```
show ip router-id [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

show	Show running system information
ip	Display IP information
router-id	Display IP router identification
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

Command Mode

- /exec

show ip rsvp

```
show ip rsvp [ __readonly__ [ <sup-state> <start-type> <restart-type> <ha-ena> <gr-ena> <hst-ena>
<glb-router-id> <psr-ena> <local-epoch> ] [ TABLE_clients <clnt-name> <clnt-sap> <clnt-type>
<clnt-batch-time> [ <clnt-lxsb> ] ] [ <bundle-ena> <bundle-time> <bundle-maxsz> ] [ <refresh-intvl>
<refresh-miss> ] [ <refred-ena> <rr-init-rexmit-delay> <rr-rapid-rexmit-ena> <rr-ack-delay> ] [ <rate-limit-ena>
<rate-limit-cap> <rate-limit-pace-intvl> ] [ <gr-tmr> [ <gr-tmr-expiry> ] ] [ <auth-ena> [ <key-src> ] [ <digest>
] [ <seq-winsize> ] [ <challenge> ] [ <lifetime> ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
rsvp	Display RSVP status
<i>__readonly__</i>	(Optional)
<i>sup-state</i>	(Optional)
<i>start-type</i>	(Optional)
<i>restart-type</i>	(Optional)
<i>ha-ena</i>	(Optional)
<i>gr-ena</i>	(Optional)
<i>hst-ena</i>	(Optional)
<i>glb-router-id</i>	(Optional)
<i>psr-ena</i>	(Optional)
<i>local-epoch</i>	(Optional)
<i>bundle-ena</i>	(Optional)
<i>bundle-time</i>	(Optional)
<i>bundle-maxsz</i>	(Optional)
<i>refresh-intvl</i>	(Optional)
<i>refresh-miss</i>	(Optional)
<i>refred-ena</i>	(Optional)
<i>rr-rapid-rexmit-ena</i>	(Optional)
<i>rr-init-rexmit-delay</i>	(Optional)
<i>rr-ack-delay</i>	(Optional)

<i>rate-limit-ena</i>	(Optional)
<i>rate-limit-cap</i>	(Optional)
<i>rate-limit-pace-intvl</i>	(Optional)
<i>gr-tmr</i>	(Optional)
<i>gr-tmr-expiry</i>	(Optional)
<i>auth-ena</i>	(Optional)
<i>key-src</i>	(Optional)
<i>digest</i>	(Optional)
<i>seq-winsize</i>	(Optional)
<i>challenge</i>	(Optional)
<i>lifetime</i>	(Optional)
TABLE_clients	(Optional)
<i>clnt-name</i>	(Optional)
<i>clnt-sap</i>	(Optional)
<i>clnt-type</i>	(Optional)
<i>clnt-batch-time</i>	(Optional)
<i>clnt-lxsb</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> ] [
<data-pattern> ] [ <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> ] [ <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 configurtaion
<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>data-pattern</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>precision</i>	(Optional)
<i>packet-priority</i>	(Optional)
<i>ntp-sync-tolerance</i>	(Optional)
<i>ntp-sync-toctype</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>oustring</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
__readonly__	(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)
TABLE_reaction	(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>
] [ { TABLE_recent [ <print-recent-hdr> ] [ <print-recent-err-hdr> ] [ <recent-addr> ] [ <recent-time> ] [
<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)
TABLE_recent	(Optional) Show recent control message information
<i>print-recent-hdr</i>	(Optional)
<i>print-recent-err-hdr</i>	(Optional)
<i>recent-addr</i>	(Optional)
<i>recent-time</i>	(Optional)
<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 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 stats

show ip stats

Syntax Description

show	Show running system information
ip	Display IP information
stats	Display IP internal stats

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_bdcast> ] } ] [ { TABLE_fragment [ <frag> ] [ <fragmented> ] [ <out-frag>
] [ <frag-drop> ] [ <cant-frag> ] [ <reasm> ] [ <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-deny> ] [ <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> ] [ <inocet> ] [ <inhdrerr> ] [
<innoroutes> ] [ <inaddrerr> ] [ <innoproto> ] [ <intruncated> ] [ <inforw> ] [ <reasmreqds> ] [ <reasmoks>
] [ <reasmfails> ] [ <indiscards> ] [ <indelivers> ] [ <inmcastpkts> ] [ <inmcastbytes> ] [ <inbaspkts> ] } ]
[ { TABLE_rfc_transmission [ <tr-pkt-sent> ] [ <tr-bytes-sent> ] [ <tr-out-req> ] [ <tr-outno-routes> ] [
<tr-out-fwrdgrams> ] [ <tr-outdiscards> ] [ <tr-outfragreqds> ] [ <tr-outfragoks> ] [ <tr-outfragfails> ] [
<tr-outfragcreates> ] [ <tr-outtransmits> ] [ <tr-bytes-sent-end> ] [ <tr-outmcast-pkts> ] [ <tr-outmcast-bytes>
] [ <tr-outbcastpkts> ] [ <tr-outbcastbytes> ] } ] } ] ] ]
```

Syntax Description

show	Show running system information
ip	Display IP information
traffic	Display IP software processed traffic statistics
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<u>__readonly__</u>	(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-loosesrc-route</i>	(Optional)
<i>opts-timestamp</i>	(Optional)
<i>opts-eseq</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-mfwd-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-igmgr-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-rep</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>orginate-deny</i>	(Optional)
<i>short-ip</i>	(Optional)
<i>old-icmp</i>	(Optional)
<i>error-drop</i>	(Optional)
TABLE_reception	(Optional)
<i>rx-redirect</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-reply</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>inbastpkts</i>	(Optional)
TABLE_rfc_transmission	(Optional)
<i>tr-pkt-sent</i>	(Optional)
<i>tr-bytes-sent</i>	(Optional)

<i>tr-out-req</i>	(Optional)
<i>tr-outno-routes</i>	(Optional)
<i>tr-out-frwdgrams</i>	(Optional)
<i>tr-outdiscards</i>	(Optional)
<i>tr-outfragreqds</i>	(Optional)
<i>tr-outfragoks</i>	(Optional)
<i>tr-outfragfails</i>	(Optional)
<i>tr-outfragcreates</i>	(Optional)
<i>tr-outtransmits</i>	(Optional)
<i>tr-bytes-sent-end</i>	(Optional)
<i>tr-outmcast-pkts</i>	(Optional)
<i>tr-outmcast-bytes</i>	(Optional)
<i>tr-outbcastpkts</i>	(Optional)
<i>tr-outbcastbytes</i>	(Optional)

Command Mode

- /exec

show ip txlist list

show ip txlist { list | member }

Syntax Description

show	Show running system information
ip	Display IP information
txlist	Display IP txlist information
list	Display IP txlist main linkage
member	Display IP txlist active member linkage

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_intf_ipsg_val> | <verify_ipsg_enable_intf>
] [ <verify_hdr> ] [ TABLE_verify_entry <verify_intf> <verify_filter_mode> <verify_ip_addr>
<verify_mac_addr> <verify_vlan> ] <verify_ipsg_exclude_vlans> ]
```

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_intf_ipsg_val</i>	(Optional) IP source guard value (enabled or disable)
<i>verify_ipsg_enable_intf</i>	(Optional) IP source guard enabled interfaces names
TABLE_verify_entry	(Optional)
<i>verify_filter_mode</i>	(Optional)
<i>verify_intf</i>	(Optional)
<i>verify_hdr</i>	(Optional) IP source guard operational entries
<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
<i>verify_ipsg_exclude_vlans</i>	(Optional)

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>exp</i>	(Optional)
------------	------------

Command Mode

- /exec

show ipv6 bgp

```
show ipv6 { bgp | mbgp } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] {
rib-install | rib-uninstall | rib-pending } [ 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
rib-install	Routes installed in RIB
rib-uninstall	Routes not installed in RIB
rib-pending	Routes not acknowledged by RIB

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

```
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 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 { <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
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>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 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	(Optional) private

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-ldra

```
show ipv6 dhcp-ldra [ __readonly__ <ldra_gbl_enable> [ <cli_fac_disable_hdr>
TABLE_intf_entry_cli_fac_disable <cli_fac_disable_intf> ] [ <cli_fac_trusted_hdr>
TABLE_intf_entry_cli_fac_trusted <cli_fac_trusted_intf> ] [ <cli_fac_untrusted_hdr>
TABLE_intf_entry_cli_fac_untrusted <cli_fac_untrusted_intf> ] [ <srv_fac_hdr> TABLE_intf_entry_srv_fac
<srv_fac_intf> ] ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp-ldra	Show DHCPv6 LDRA
<i>__readonly__</i>	(Optional) Read only
<i>ldra_gbl_enable</i>	(Optional) is DHCPv6 LDRA service enabled
<i>cli_fac_disable_hdr</i>	(Optional) DHCPv6 LDRA policy client-facing-disable
TABLE_intf_entry_cli_fac_disable	(Optional)
<i>cli_fac_disable_intf</i>	(Optional) DHCPv6 LDRA policy client-facing-disable interfaces
<i>cli_fac_trusted_hdr</i>	(Optional) DHCPv6 LDRA policy client-facing-trusted
TABLE_intf_entry_cli_fac_trusted	(Optional)
<i>cli_fac_trusted_intf</i>	(Optional) DHCPv6 LDRA policy client-facing-trusted interfaces
<i>cli_fac_untrusted_hdr</i>	(Optional) DHCPv6 LDRA policy client-facing-untrusted
TABLE_intf_entry_cli_fac_untrusted	(Optional)
<i>cli_fac_untrusted_intf</i>	(Optional) DHCPv6 LDRA policy client-facing-untrusted interfaces
<i>srv_fac_hdr</i>	(Optional) DHCPv6 LDRA policy server-facing
TABLE_intf_entry_srv_fac	(Optional)
<i>srv_fac_intf</i>	(Optional) DHCPv6 LDRA policy server-facing interfaces

Command Mode

- /exec

show ipv6 dhcp-ldra statistics

```
show ipv6 dhcp-ldra statistics [ __readonly__ { <cf_total_msg_received> <cf_total_msg_sent>
<cf_total_msg_drops> } [ <rx_msg_stats_hdr> TABLE_rx_entry <rx_msg_type_str> <rx_pkts> ] [
<tx_msg_stats_hdr> TABLE_tx_entry <tx_msg_type_str> <tx_pkts> ] [ <drop_msg_stats_hdr>
TABLE_drop_entry <msg_discard_reason_str> <drops> ] { <sf_total_msg_received> <sf_total_msg_sent>
<sf_total_msg_drops> } [ <sf_rx_msg_stats_hdr> TABLE_sf_rx_entry <sf_rx_msg_type_str> <sf_rx_pkts>
] [ <sf_tx_msg_stats_hdr> TABLE_sf_tx_entry <sf_tx_msg_type_str> <sf_tx_pkts> ] [
<sf_drop_msg_stats_hdr> TABLE_sf_drop_entry <sf_msg_discard_reason_str> <sf_drops> ] ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp-ldra	Show information about DHCPv6 LDRA
statistics	Statistics related to DHCPv6 LDRA
<i>__readonly__</i>	(Optional) Read only
<i>cf_total_msg_received</i>	(Optional) client facing statistics messages received
<i>cf_total_msg_sent</i>	(Optional) client facing statistics messages sent
<i>cf_total_msg_drops</i>	(Optional) client facing statistics message drops
<i>rx_msg_stats_hdr</i>	(Optional) received message statistics header
TABLE_rx_entry	(Optional)
<i>rx_msg_type_str</i>	(Optional) received dhcpv6 message type
<i>rx_pkts</i>	(Optional) received dhcpv6 packets
<i>tx_msg_stats_hdr</i>	(Optional) forwarded message statistics header
TABLE_tx_entry	(Optional)
<i>tx_msg_type_str</i>	(Optional) forwarded dhcpv6 message type
<i>tx_pkts</i>	(Optional) forwarded dhcpv6 packets
<i>drop_msg_stats_hdr</i>	(Optional) drops message statistics header
TABLE_drop_entry	(Optional)
<i>msg_discard_reason_str</i>	(Optional) message discarded reason
<i>drops</i>	(Optional) dhcpv6 packet drops
<i>sf_total_msg_received</i>	(Optional) server facing statistics messages received
<i>sf_total_msg_sent</i>	(Optional) server facing statistics messages sent

<i>sf_total_msg_drops</i>	(Optional) server facing statistics message drops
<i>sf_rx_msg_stats_hdr</i>	(Optional) received message statistics header
TABLE_sf_rx_entry	(Optional)
<i>sf_rx_msg_type_str</i>	(Optional) received dhcpv6 message type
<i>sf_rx_pkts</i>	(Optional) received dhcpv6 packets
<i>sf_tx_msg_stats_hdr</i>	(Optional) server forwarded message statistics header
TABLE_sf_tx_entry	(Optional)
<i>sf_tx_msg_type_str</i>	(Optional) server forwarded dhcpv6 message type
<i>sf_tx_pkts</i>	(Optional) server forwarded dhcpv6 packets
<i>sf_drop_msg_stats_hdr</i>	(Optional) server drops message statistics header
TABLE_sf_drop_entry	(Optional)
<i>sf_msg_discard_reason_str</i>	(Optional) server message discarded reason
<i>sf_drops</i>	(Optional) server dhcpv6 packet drops

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 dhcp relay

```
show ipv6 dhcp relay [ interface <intf-range> ] [ __readonly__ [ <relay_service_enable> [ <gbl_src_intf> ]
<relay_vpn_enable> <relay_cisco_option_enable> ] [ TABLE_intf <interface-name> [ <intf_src_intf> ]
<intf_header> [ TABLE_addr <relay_address> <dst_intf> <vrf_name> ] ] ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp	Show DHCPv6
relay	DHCPv6 relay address of the interface
interface	(Optional) DHCPv6 relay address of the interface
<i>intf-range</i>	(Optional) interface
<i>__readonly__</i>	(Optional) Read only
<i>relay_service_enable</i>	(Optional) is dhcpv6 relay service enabled
<i>gbl_src_intf</i>	(Optional) interface name
<i>relay_vpn_enable</i>	(Optional) is dhcpv6 relay insertion of vpn sub options enabled
<i>relay_cisco_option_enable</i>	(Optional) is dhcpv6 relay cisco option enabled
TABLE_intf	(Optional)
<i>interface-name</i>	(Optional) interface name
<i>intf_src_intf</i>	(Optional) interface name
<i>intf_header</i>	(Optional) interface header
TABLE_addr	(Optional)
<i>dst_intf</i>	(Optional) interface name
<i>vrf_name</i>	(Optional) VRF name

Command Mode

- /exec

show ipv6 dhcp relay statistics

```
show ipv6 dhcp relay statistics [ interface <intf> [ [ server-ip <ip-addr-val> [ use-vrf <vrf-name> ] [ interface
<dest-interface> ] ] ] [ server-ip <ip-addr-val> [ interface <dest-interface> ] [ use-vrf <vrf-name> ] ] ] ] [
__readonly__ [ <msg_stats_hdr> <msg_type_str> <rx_pkts> <tx_pkts> <drops> <msg_type_str_advertise>
<rx_pkts_advertise> <tx_pkts_advertise> <drops_advertise> <msg_type_str_request> <rx_pkts_request>
<tx_pkts_request> <drops_request> <msg_type_str_confirm> <rx_pkts_confirm> <tx_pkts_confirm>
<drops_confirm> <msg_type_str_renew> <rx_pkts_renew> <tx_pkts_renew> <drops_renew>
<msg_type_str_rebind> <rx_pkts_rebind> <tx_pkts_rebind> <drops_rebind> <msg_type_str_reply>
<rx_pkts_reply> <tx_pkts_reply> <drops_reply> <msg_type_str_release> <rx_pkts_release> <tx_pkts_release>
<drops_release> <msg_type_str_decline> <rx_pkts_decline> <tx_pkts_decline> <drops_decline>
<msg_type_str_reconfigure> <rx_pkts_reconfigure> <tx_pkts_reconfigure> <drops_reconfigure>
<msg_type_str_inforeq> <rx_pkts_inforeq> <tx_pkts_inforeq> <drops_inforeq> <msg_type_str_relay_fwd>
<rx_pkts_relay_fwd> <tx_pkts_relay_fwd> <drops_relay_fwd> <msg_type_str_relay_reply>
<rx_pkts_relay_reply> <tx_pkts_relay_reply> <drops_relay_reply> <msg_type_str_unknown>
<rx_pkts_unknown> <tx_pkts_unknown> <drops_unknown> <msg_type_str_total> ] [ <server_stats_hdr>
[ TABLE_server <server_helper_addr> <server_vrf> <server_intf> <server_requests> <server_responses>
] ] [ <drop_hdr> <drop_relay_disable> <drop_max_hops> <drop_validation_fails> <drop_unknown_op_intf>
<drop_bad_context> <drop_opt_insert_fail> <drop_server_direct_reply> <drop_no_ipv6_addr>
<drop_intf_error> <drop_vpn_disabled> <drop_ipv6_extn_hdrs_presence> <drop_mct_drop> ] ]
```

Syntax Description

show	Show running system information
ipv6	Show the IPv6 features of the system
dhcp	Show information about DHCPv6
relay	DHCPv6 Relay
statistics	Statistics related to DHCPv6
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
server-ip	(Optional) Server address
use-vrf	(Optional) server address VRF membership
<i>vrf-name</i>	(Optional) VRF name
interface	(Optional) Destination interface for the server address
<i>dest-interface</i>	(Optional) Destination interface
<i>__readonly__</i>	(Optional) Read only
<i>msg_stats_hdr</i>	(Optional) dhcpv6 message statistics header
<i>msg_type_str</i>	(Optional) dhcpv6 message type

<i>rx_pkts</i>	(Optional) dhcpv6 received packets
<i>tx_pkts</i>	(Optional) dhcpv6 forwarded packets
<i>drops</i>	(Optional) dhcpv6 packet drops
<i>msg_type_str_advertise</i>	(Optional)
<i>rx_pkts_advertise</i>	(Optional)
<i>tx_pkts_advertise</i>	(Optional)
<i>drops_advertise</i>	(Optional)
<i>msg_type_str_request</i>	(Optional)
<i>rx_pkts_request</i>	(Optional)
<i>tx_pkts_request</i>	(Optional)
<i>drops_request</i>	(Optional)
<i>msg_type_str_confirm</i>	(Optional)
<i>rx_pkts_confirm</i>	(Optional)
<i>tx_pkts_confirm</i>	(Optional)
<i>drops_confirm</i>	(Optional)
<i>msg_type_str_renew</i>	(Optional)
<i>rx_pkts_renew</i>	(Optional)
<i>tx_pkts_renew</i>	(Optional)
<i>drops_renew</i>	(Optional)
<i>msg_type_str_rebind</i>	(Optional)
<i>rx_pkts_rebind</i>	(Optional)
<i>tx_pkts_rebind</i>	(Optional)
<i>drops_rebind</i>	(Optional)
<i>msg_type_str_reply</i>	(Optional)
<i>rx_pkts_reply</i>	(Optional)
<i>tx_pkts_reply</i>	(Optional)
<i>drops_reply</i>	(Optional)
<i>msg_type_str_release</i>	(Optional)
<i>rx_pkts_release</i>	(Optional)

<i>tx_pkts_release</i>	(Optional)
<i>drops_release</i>	(Optional)
<i>msg_type_str_decline</i>	(Optional)
<i>rx_pkts_decline</i>	(Optional)
<i>tx_pkts_decline</i>	(Optional)
<i>drops_decline</i>	(Optional)
<i>msg_type_str_reconfigure</i>	(Optional)
<i>rx_pkts_reconfigure</i>	(Optional)
<i>tx_pkts_reconfigure</i>	(Optional)
<i>drops_reconfigure</i>	(Optional)
<i>msg_type_str_inforeq</i>	(Optional)
<i>rx_pkts_inforeq</i>	(Optional)
<i>tx_pkts_inforeq</i>	(Optional)
<i>drops_inforeq</i>	(Optional)
<i>msg_type_str_relay_fwd</i>	(Optional)
<i>rx_pkts_relay_fwd</i>	(Optional)
<i>tx_pkts_relay_fwd</i>	(Optional)
<i>drops_relay_fwd</i>	(Optional)
<i>msg_type_str_relay_reply</i>	(Optional)
<i>rx_pkts_relay_reply</i>	(Optional)
<i>tx_pkts_relay_reply</i>	(Optional)
<i>drops_relay_reply</i>	(Optional)
<i>msg_type_str_unknown</i>	(Optional)
<i>rx_pkts_unknown</i>	(Optional)
<i>tx_pkts_unknown</i>	(Optional)
<i>drops_unknown</i>	(Optional)
<i>msg_type_str_total</i>	(Optional) total of all dhcpv6 message types
<i>server_stats_hdr</i>	(Optional) per-server statistics header
TABLE_server	(Optional)

<i>server_vrf</i>	(Optional) dhcpv6 server vrf
<i>server_intf</i>	(Optional) interface name
<i>server_requests</i>	(Optional)
<i>server_responses</i>	(Optional)
<i>drop_hdr</i>	(Optional)
<i>drop_relay_disable</i>	(Optional)
<i>drop_max_hops</i>	(Optional)
<i>drop_validation_fails</i>	(Optional)
<i>drop_unknown_op_intf</i>	(Optional)
<i>drop_bad_context</i>	(Optional)
<i>drop_opt_insert_fail</i>	(Optional)
<i>drop_server_direct_reply</i>	(Optional)
<i>drop_no_ipv6_addr</i>	(Optional)
<i>drop_intf_error</i>	(Optional)
<i>drop_vpn_disabled</i>	(Optional)
<i>drop_ipv6_extn_hdrs_presence</i>	(Optional)
<i>drop_mct_drop</i>	(Optional) drops through mct

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 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 bitfield

show ipv6 pim bitfield

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
bitfield	Display compressed bitfield details

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
<i>__readonly__</i>	(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 embed-rp

show ipv6 pim embed-rp <group>

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
embed-rp	Display Embed-RP group address mapping

Command Mode

- /exec

show ipv6 pim event-history

```
show ipv6 pim [ internal ] event-history { errors | msgs | <pim6-event-hist-buf-name> | statistics }
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	PIM6 global configuration commands
internal	(Optional) Commands for internal use
event-history	Show various event logs of PIM6
errors	Show error logs of PIM6
msgs	Show various message logs of PIM6
<i>pim6-event-hist-buf-name</i>	Show logs of event-hist buffer
statistics	Show state and size of buffers

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__
<out-context> { TABLE_group <grp-addr> <invalid-grp> <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)
<i>out-context</i>	(Optional)
TABLE_group	(Optional)
<i>invalid-grp</i>	(Optional)
<i>mode</i>	(Optional)

Command Mode

- /exec

show ipv6 pim interface show ipv6 pim interface

```
show ipv6 pim interface <interface> | show ipv6 pim interface [ brief ] [ vrf { <vrf-name> | <vrf-known-name>
| all } ] [ __readonly__ <out-context> { TABLE_iod <if-name> <if-addr> <dr> <nbr-cnt> <is-border>
<is-iface-in-cib> <is-pim-enabled> <if-addr-summary> <if-status> <dr-priority> <no-dr-priority>
<hello-interval-sec> <hello-interval-msec> <hello-timer> <holdtime-sec> <holdtime-msec> <genid>
<isauth-config> <is-passive> <nbr-policy-name> <jp-in-policy-name> <jp-out-policy-name> <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>	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
<i>__readonly__</i>	(Optional)
<i>out-context</i>	(Optional)
TABLE_iod	(Optional)
<i>if-name</i>	(Optional)
<i>nbr-cnt</i>	(Optional)
<i>is-iface-in-cib</i>	(Optional)
<i>is-pim-enabled</i>	(Optional)
<i>is-border</i>	(Optional)
<i>if-addr-summary</i>	(Optional)

<i>if-status</i>	(Optional)
<i>dr-priority</i>	(Optional)
<i>no-dr-priority</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
<i>__readonly__</i>	(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_immediatettimeoutlist <immediatettimeoutoif-name> } ]
<mgr-prune-list-count> [ { TABLE_mgrprunelist <mgrprunelistoif-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	(Optional) Display details of each bitfield for 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>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
__readonly__	(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

show ipv6 pim rp

```
show ipv6 pim rp [ <group> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ <out-context>
<is-bsr-enabled> <is-bsr-listen-only> <is-bsr-forward-only> <are-we-bsr> <bsr-address> <is-bsr-address>
<bsr-priority> <bsr-hash-masklen> <bs-timer> <bsr-uptime> <bsr-expires> <is-autorp-enabled>
<is-autorp-listen-only> <is-autorp-forward-only> <are-we-autorp> <autorp-address> <is-autorp-address>
<autorp-dis-timer> <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-in-cib> <df-ordinal>
<rp-uptime> <rp-priority> <autorp-expires> <bsr-rp-expires> <autorp-info-src> <bsr-info-src> <is-rp-static>
<static-rp-group-map> { TABLE_grange <grange-grp> <grange-masklen> <is-bidir-grp> <is-autorp-rp-owner>
<is-bsr-rp-owner> <is-static-rp-owner> } } ]
```

Syntax Description

show	Show running system information
ipv6	Display IPv6 information
pim	Display PIM6 status and configuration
rp	Display PIM6 RP, Auto-RP, and BSR related 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)
<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>are-we-bsr</i>	(Optional)
<i>is-bsr-address</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>are-we-autorp</i>	(Optional)
<i>is-autorp-address</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)
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>autorp-expires</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-autorp-rp-owner</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__ <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
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)
<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 ipv6 pim vrf

```
show ipv6 pim vrf [ { <vrf-name> | <vrf-known-name> | all } ] [ detail ] [ __readonly__ TABLE_context
<out-context> <context-id> <table-id> <count> ]
```

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
__readonly__	(Optional)
TABLE_context	(Optional)
<i>out-context</i>	(Optional)
<i>context-id</i>	(Optional)
<i>table-id</i>	(Optional)
<i>count</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	(Optional) Show detailed information
summary	(Optional) Show summarized information
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 ] } | { 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> ] [ <ifname> ] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale>
] [ <stalebl> ] [ <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	(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
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
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]
<i>until</i>	(Optional) Display those routes updated until this time
<i>utime</i>	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
<i>summary</i>	(Optional) Display route counts
<i>deleted</i>	(Optional) Display delete-pending routes also
<i>detail</i>	(Optional) Display routes in full detail
<i>__readonly__</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>TABLE_addrf</i>	(Optional)
<i>addrf</i>	(Optional)
<i>TABLE_prefix</i>	(Optional)
<i>ucast-nhops</i>	(Optional)
<i>mcast-nhops</i>	(Optional)
<i>attached</i>	(Optional)
<i>TABLE_path</i>	(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>stalelbl</i>	(Optional)
<i>hidden</i>	(Optional)
<i>TABLE_summary</i>	(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

show	Show running system information
ipv6	Show the IPv6 features of the system
<i>vlanid</i>	(Optional) VLAN ID
<i>intf</i>	(Optional) interface
<i>__readonly__</i>	(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
<i>__readonly__</i>	(Optional)
<i>TABLE_features</i>	(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
<i>__readonly__</i>	(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 # 394
../feature/sisf/core/nxos/src/sisf_glean_dme.cmd <protocol> [ <prefix_list> ] } ] [ <limit_address_cnt> ] [
<limit_address_cnt_v4_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_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

<i>show</i>	Show running system information
<i>ipv6</i>	Show the IPv6 features of the system
<i>__readonly__</i>	(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> ] [ 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> ] ] ]
```

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	(Optional) Display IS-IS process information
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)
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)

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	(Optional) Display IS-IS point-to-point information at level-1-2
summary	(Optional) Display IS-IS adjacency summary information
__readonly__	(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> ] [ <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-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-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>	(Optional) Display advertise tlv lsp-memory information
<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)
<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-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-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>
[ <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>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 event-history

```
show isis [ <isis-tag> ] [ internal ] event-history { errors | msgs | <isis-event-hist-buf-name> | statistics }
```

Syntax Description

show	Show running system information
isis	Display IS-IS status and configuration
<i>isis-tag</i>	(Optional) Routing process tag
internal	(Optional) Commands for internal use
event-history	Display IS-IS event history
errors	Error history
msgs	Message history
<i>isis-event-hist-buf-name</i>	Event history buffer
statistics	Show the state and size of the buffer

Command Mode

- /exec

show isis hostname

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] { hostname | hostname-table } [ detail
] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_vrf <vrf-name-out> <tag-out>
<hname-enabled-out> <hname-detail-out> [ TABLE_hostname <hname-id-out> <hname-level-out>
<hname-id-mine-out> <hname-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
hostname	Display IS-IS hostname table information
hostname-table	Display IS-IS hostname table information
detail	(Optional) Display detailed IS-IS information
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>tag-out</i>	(Optional)
<i>hname-enabled-out</i>	(Optional)
<i>hname-detail-out</i>	(Optional)
TABLE_hostname	(Optional)
<i>hname-id-out</i>	(Optional)
<i>hname-level-out</i>	(Optional)
<i>hname-id-mine-out</i>	(Optional)
<i>hname-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> ] } ] [ { 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-ctid-out> <intf-bcast-lvl-ctid-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)
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 [ 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-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
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-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-map statistics

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ipv6 route-map statistics { { redistribute
{ static | direct | amt | bgp <as> | { <src-isis> | eigrp | ospfv3 | rip } <tag> } } | { distribute <src-level> into
<dst-level> } } [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag [
<process-tag-out> ] [ <route-map-stat-vrf> ] [ { TABLE_process_route_map [ <name> ] [ <action> ] [ <seq>
] [ { TABLE_cmd [ <str> ] [ <compare-count> ] [ <match-count> ] } ] <accept-count> <reject-count> } ] ]
```

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-map	Display IS-IS route-map information
statistics	Display IS-IS route-map statistics
redistribute	Redistribute information from another routing protocol
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
eigrp	Enhanced Interior Gateway Protocol
src-isis	IS-IS Routing for IPv6
ospfv3	Open Shortest Path First (OSPF) V3
rip	RIP for IPv6 (RIPNG)
<i>tag</i>	Process tag
distribute	Distribute routes between ISIS levels
into	from level-n into level-m

<i>src-level</i>	Route-distribution between levels
<i>dst-level</i>	Route-distribution between levels
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>route-map-stat-vrf</i>	(Optional)
TABLE_process_route_map	(Optional) Routemap table
<i>name</i>	(Optional) Route-map Name
<i>action</i>	(Optional) Route-map action
<i>seq</i>	(Optional) Sequence number of the rule in route-map
TABLE_cmd	(Optional) Route-map command table
<i>str</i>	(Optional) Route-map command
<i>compare-count</i>	(Optional) Number of comparisons
<i>match-count</i>	(Optional) Number of matches
<i>accept-count</i>	(Optional) Total number of packets accepted by the policy
<i>reject-count</i>	(Optional) Total number of packets rejected by the policy

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> <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	(Optional) Show detail and internal information
__readonly__	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-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 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 lsp free-list

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] { non-pseudonode | pseudonode {
<interface> | orphan } } lsp free-list [ summary ] [ 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
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
non-pseudonode	Display IS-IS non-pseudo-node information
pseudonode	Display IS-IS pseudo-node information
<i>interface</i>	IS-IS interface
orphan	Display orphan LSP information
lsp	Display IS-IS LSP information
free-list	Display free-list information
summary	(Optional) Display LSP count per free-list

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__ <tag-out> TABLE_vrf <vrf-name-out>
<mesh-id-set-out> <mesh-id-out> <mesh-set-id-out> <mesh-id-intf-name-out> <mesh-id-none-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)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>mesh-id-set-out</i>	(Optional)
<i>mesh-id-out</i>	(Optional)
<i>mesh-set-id-out</i>	(Optional)
<i>mesh-id-intf-name-out</i>	(Optional)
<i>mesh-id-none-out</i>	(Optional)

Command Mode

- /exec

show isis non tlv overflow-list

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] { non-pseudonode | pseudonode
<interface> } tlv overflow-list [ 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
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
non-pseudonode	Display IS-IS non-pseudo-node information
pseudonode	Display IS-IS pseudo-node information
<i>interface</i>	IS-IS interface
tlv	Display IS-IS TLV information
overflow-list	Display ISIS TLV overflow-list information

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	(Optional) Display routes with direct-mask set
__readonly__	(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-map statistics

```
show isis [<isis-tag>] [vrf {<vrf-name> | <vrf-known-name> | all}] [ip] route-map statistics { { redistribute
{ static | direct | amt | bgp <as> | { <src-isis> | eigrp | ospf | rip } <tag> } } | { distribute <src-level> into
<dst-level> } } [vrf {<vrf-name> | <vrf-known-name> | all}] [ __readonly__ { TABLE_process_tag
<process-tag-out> { TABLE_vrf <route-map-stat-vrf> [ { TABLE_process_route_map [ <name> ] [ <action>
] [ <seq> ] [ { TABLE_cmd [ <str> ] [ <compare-count> ] [ <match-count> ] } ] <accept-count> <reject-count>
} } } }
```

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-map	Display IS-IS route-map information
statistics	Display IS-IS route-map statistics
redistribute	Redistribute information from another routing protocol
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
eigrp	Enhanced Interior Gateway Protocol
src-isis	IS-IS Routing for IPv4
ospf	Open Shortest Path First (OSPF)
rip	RIP for IPv4
<i>tag</i>	Process tag
distribute	Distribute routes between ISIS levels

<i>into</i>	from level-n into level-m
<i>src-level</i>	Route-distribution between levels
<i>dst-level</i>	Route-distribution between levels
<i>__readonly__</i>	(Optional)
<i>TABLE_process_tag</i>	(Optional)
<i>process-tag-out</i>	(Optional)
<i>TABLE_vrf</i>	(Optional)
<i>route-map-stat-vrf</i>	(Optional)
<i>TABLE_process_route_map</i>	(Optional) Routemap table
<i>name</i>	(Optional) Route-map Name
<i>action</i>	(Optional) Route-map action
<i>seq</i>	(Optional) Sequence number of the rule in route-map
<i>TABLE_cmd</i>	(Optional) Route-map command table
<i>str</i>	(Optional) Route-map command
<i>compare-count</i>	(Optional) Number of comparisons
<i>match-count</i>	(Optional) Number of matches
<i>accept-count</i>	(Optional) Total number of packets accepted by the policy
<i>reject-count</i>	(Optional) Total number of packets rejected by the policy

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	(Optional) Show detail and internal information

<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 route is

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] route is [ topology { [ base ] | mt-ipv6 } ] [ 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
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 IS-IS route information
is	Display IS route
topology	(Optional) Display routes for a topology
base	(Optional) Display routes for BASE topology
mt-ipv6	(Optional) Display routes for MT-IPV6-UNICAST topology

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-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-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 local-mapcache

```
show isis [ <isis-tag> ] segment-routing local-mapcache [ 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
segment-routing	show segment-routing information
local-mapcache	local prefix-sid mappings
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 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 }]

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

Command Mode

- /exec

show isis spf-adjacency

```
show isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] spf-adjacency [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <spf-adjacency-vrf> [
<spf-adjacency-system-name> ] [ <spf-adjacency-refcount> ] [ <spf-adjacency-if-name> ] [
<spf-adjacency-rib-addr> ] [ <spf-adjacency-rib-addr-valid> ] [ <spf-adjacency-rib-ipv6-addr> ] [
<spf-adjacency-rib-ipv6-addr-valid> ] [ <spf-adjacency-spf-addr> ] [ <spf-adjacency-spf-ipv6-addr> ] [ {
TABLE_SPFADJLEVEL <spf-adjacency-level> } ] ]
```

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-adjacency	Display IS-IS SPF adjacency information
<i>__readonly__</i>	(Optional)
TABLE_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>spf-adjacency-vrf</i>	(Optional)
<i>spf-adjacency-system-name</i>	(Optional)
<i>spf-adjacency-refcount</i>	(Optional)
<i>spf-adjacency-if-name</i>	(Optional)
<i>spf-adjacency-rib-addr</i>	(Optional)
<i>spf-adjacency-rib-addr-valid</i>	(Optional)
<i>spf-adjacency-rib-ipv6-addr</i>	(Optional)
<i>spf-adjacency-rib-ipv6-addr-valid</i>	(Optional)
<i>spf-adjacency-spf-addr</i>	(Optional)
<i>spf-adjacency-spf-ipv6-addr</i>	(Optional)
TABLE_SPFADJLEVEL	(Optional)

<i>spf-adjacency-level</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__ <tag-out> TABLE_vrf <vrf-name-out> <spflog-calc-out>
<spflog-size-out> <spflog-maxsize-out> <spflog-ago-time-out> <spflog-lvl-out> <spflog-reason-out>
<spflog-count-out> <spflog-elapsed-ts-out> <spflog-log-num-out> <spflog-ts-detail-out>
<spflog-date-detail-out> <spflog-lvl-detail-out> <spflog-instance-detail-out> <spflog-init-ts-detail-out>
<spflog-spf-ts-detail-out> <spflog-detail-ts-is-out> <spflog-detail-ts-urib-out> <spflog-detail-ts-elapsed-out>
<spflog-detail-lvl-out> <spflog-detail-spf-cnt-out> <spflog-detail-sync-cnt-out> <spflog-detail-spf-reason-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)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>spflog-calc-out</i>	(Optional)
<i>spflog-size-out</i>	(Optional)
<i>spflog-maxsize-out</i>	(Optional)
<i>spflog-ago-time-out</i>	(Optional)
<i>spflog-lvl-out</i>	(Optional)
<i>spflog-reason-out</i>	(Optional)
<i>spflog-count-out</i>	(Optional)
<i>spflog-elapsed-ts-out</i>	(Optional)

<i>spflog-log-num-out</i>	(Optional)
<i>spflog-ts-detail-out</i>	(Optional)
<i>spflog-date-detail-out</i>	(Optional)
<i>spflog-lvl-detail-out</i>	(Optional)
<i>spflog-instance-detail-out</i>	(Optional)
<i>spflog-init-ts-detail-out</i>	(Optional)
<i>spflog-spf-ts-detail-out</i>	(Optional)
<i>spflog-detail-ts-is-out</i>	(Optional)
<i>spflog-detail-ts-urib-out</i>	(Optional)
<i>spflog-detail-ts-elapsed-out</i>	(Optional)
<i>spflog-detail-lvl-out</i>	(Optional)
<i>spflog-detail-spf-cnt-out</i>	(Optional)
<i>spflog-detail-sync-cnt-out</i>	(Optional)
<i>spflog-detail-spf-reason-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__ <tag-out> TABLE_vrf <vrf-name-out> <stat-if-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)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>stat-if-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 ipv6 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 } ] | 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__ <tag-out> TABLE_vrf
<vrf-name-out> <afi-safi-out> <addr-absent-out> <addr-prefix-out> <addr-mask-len-out> <addr-level-out>
<addr-num-out> <addr-lvl-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
ipv6	Display IS-IS IPv6 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
<i>isis-tag</i>	(Optional)
<i>__readonly__</i>	(Optional)
<i>tag-out</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>afi-safi-out</i>	(Optional)
<i>addr-absent-out</i>	(Optional)
<i>addr-prefix-out</i>	(Optional)
<i>addr-mask-len-out</i>	(Optional)

<i>addr-level-out</i>	(Optional)
<i>addr-num-out</i>	(Optional)
<i>addr-lvl-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 [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_process_tag <process-tag-out> <topology-vrf> [ {
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
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_process_tag	(Optional)
<i>process-tag-out</i>	(Optional)
<i>topology-vrf</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	(Optional) Display mbuf priorities for received PDUs
__readonly__	(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

<i>reason</i>	(Optional) inactive reason
<i>vrf_name</i>	(Optional) VRF-Name
<i>userACL</i>	(Optional) user 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) device-group probe type
<i>dg_probe_port</i>	(Optional) device-group 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
<i>vip_dgname</i>	(Optional) vip device group
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 itd

```
show itd <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> <probe>
<lb_scheme> [ <interface> ] <state> <buckets> [ <reason> ] <vrf_name> <userACL> <peer_status> [
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> ] [
<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
itd	ITD service
<i>svc-name</i>	ITD service name
brief	(Optional) 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) service_name
<i>probe</i>	(Optional) probe
<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
<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
<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
<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 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 { <service_name> | all } [ src { <src-ip> | <src-IPv6> } | dst { <dst-ip> | <dst-IPv6> } ] statistics [
brief ] [ __readonly__ <is_firstentry_node> <is_firstentry_acl> <is_for_ace> [ TABLE_nice <service_name>
[ <vip> ] [ <ace_seq> ] [ <ace_ip> ] [ <vip_pkt> ] <dev_grp> <node> <node_pkt> [ <acl> ] [ <acl_pkt> ]
<mode> <percentage> ] ]
```

Syntax Description

show	Show running system information
itd	ITD service
statistics	ITD statistics
brief	(Optional) brief
__readonly__	(Optional) Read Only
<i>is_firstentry_node</i>	(Optional)
<i>is_firstentry_acl</i>	(Optional)
<i>is_for_ace</i>	(Optional)
TABLE_nice	(Optional)
<i>service_name</i>	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
<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>dev_grp</i>	(Optional) device group
<i>node</i>	(Optional) service node ip
<i>node_pkt</i>	(Optional) node pkt count
<i>acl</i>	(Optional) access list

<i>acl_pkt</i>	(Optional) acl pkt count
<i>mode</i>	(Optional) Redirect mode
<i>percentage</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



K Show Commands

- [show key chain, on page 1310](#)
- [show key chain mode decrypt, on page 1311](#)
- [show keystore, on page 1312](#)
- [show kim inconsistency, on page 1313](#)
- [show kubernetes containers, on page 1314](#)

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)
TABLE_keychain_decrypt	(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 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 Checsums
<i>rx_bad_fragment_lengths</i>	(Optional) Bad fragment lenghts 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 l2fwder statistics, on page 1322](#)
- [show l2rib clients, on page 1323](#)
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- [show l2route evpn mac-ip all, on page 1333](#)
- [show l2route evpn mac-ip evi, on page 1335](#)
- [show l2route evpn mac all, on page 1337](#)
- [show l2route evpn mac evi, on page 1339](#)
- [show l2route evpn path-list all, on page 1341](#)
- [show l2route evpn startup-route all, on page 1342](#)
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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 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>
<prod-type> <flags> <seq-num> <host-ip> <next-hop1> [ <next-hop2> ] [ <l3-info> ] [ <fwd-state> ] [
<rte-res> ] [ <sent-to> ] [ <peerid> ] [ <peer-ifindex> ] [ <esi-id> ] [ <soo> ] [ <pcinfo> ] ]
```

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>prod-type</i>	(Optional) Producer Type
<i>flags</i>	(Optional) Flags
<i>seq-num</i>	(Optional) Sequence Number
<i>host-ip</i>	(Optional) Host IP
<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

```
show l2route evpn mac-ip all
```

<i>pcinfo</i>	(Optional) Port-Channel Info
---------------	------------------------------

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> <prod-type> <seq-num> <host-ip> <next-hop1> [ <next-hop2> ] [ <l3-info> ] [ <fwd-state> ] [ <rte-res> ] [ <sent-to> ] [ <peerid> ] [ <peer-ifindex> ] [ <esi-id> ] [ <soo> ] [ <pcinfo> ] ]
```

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
<i>__readonly__</i>	(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>prod-type</i>	(Optional) Producer Type
<i>host-ip</i>	(Optional) Host IP

<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>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>l3-info</i>	(Optional) L3 Information
<i>peerid</i>	(Optional) Peer ID
<i>peer-ifindex</i>	(Optional) Peer Interface Index

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> ] ]
```

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>next-hop1</i>	(Optional) Next Hop 1
<i>next-hop2</i>	(Optional) Next Hop 2

Command Mode

show l2route evpn mac all

- /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> ] ]
```

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

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
<i>__readonly__</i>	(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> ] ]
```

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)
TABLE_l2route_mac	(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

Command Mode

- /exec

show l2route topology

```
show l2route topology [ <topo_id> ] [ detail ] [ __readonly__ TABLE_l2route_topology <topo-id> <topo-name>
<topo-type> [ <vni> ] [ <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>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_openflow <topo-id> <mac-addr> <prod-type> <seq-num> <host-ip> <next-hop1>
[ <next-hop2> ] [ <l3-info> ] [ <fwd-state> ] [ <rte-res> ] [ <sent-to> ] [ <peerid> ] [ <peer-ifindex> ] [ <esi-id>
] [ <soo> ] [ <pcinfo> ] ]
```

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_openflow	(Optional) L2RIB Mac-IP Table
<i>topo-id</i>	(Optional) Topology ID
<i>mac-addr</i>	(Optional) Mac Address
<i>prod-type</i>	(Optional) Producer Type
<i>host-ip</i>	(Optional) Host IP
<i>next-hop1</i>	(Optional) Next Hop 1
<i>next-hop2</i>	(Optional) Next Hop 2
<i>seq-num</i>	(Optional) Sequence Number
<i>fwd-state</i>	(Optional) Forwarding State
<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>l3-info</i>	(Optional) L3 Information
<i>peerid</i>	(Optional) Peer ID
<i>peer-ifindex</i>	(Optional) Peer Interface Index

Command Mode

- /exec

show lacp counters

```
show lacp counters [ interface <if0> ] [ __readonly__ TABLE_interface <interface> TABLE_member <port>
<pdu-sent> <pdu-rcvd> <marker-rcvd> <marker-resp-sent> <pkt-errors> [ <illegal-rcvd> ] [ <unknown-rcvd>
]]
```

Syntax Description

show	Show running system information
lacp	LACP protocol
counters	LACP counters
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>pdu-sent</i>	(Optional) Number of PDUs sent
<i>pdu-rcvd</i>	(Optional) Number of PDUs received
<i>marker-rcvd</i>	(Optional) Number of Marker PDUs received
<i>marker-resp-sent</i>	(Optional) Number of Marker response PDUs sent
<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

Command Mode

- /exec

show lacp interface

```
show lacp interface [ <if0> ] [ __readonly__ { TABLE_lacp_intf <interface> <operational-state>
<channel-group> <port-channel> <pbus-sent> <pbus-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>pbus-rcvd</i>	(Optional) PDUs received
<i>pbus-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 pdus received

<i>illegal-rcvd</i>	(Optional) Illegal pdus received
<i>localport</i>	(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
<i>partnerport</i>	(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>]

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

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 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> } ]
```

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>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 griup 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_timeout> <auth_resp_no_match>
<auth_resp_not_processed> <auth_resp_error> } [ acct_statistics <acct_failed_transactions>
<acct_succ_transactions> <acct_req_sent> <acct_req_timeout> <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
<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_timeout</i>	(Optional) Authentication: Requests timeout
<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_timeout</i>	(Optional) Accounting: Requests timeout
<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
<i>__readonly__</i>	(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 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.
<i>__readonly__</i>	(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 reserved

show license reserved

Syntax Description

show	show commands
license	Display licensing information
reserved	Display reserved licenses information

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> ] ]
} ]
```

Syntax Description

show	Show running system information
license	show the contents of all the license files
usage	Show license usage table
detail	(Optional) Show license usage table
<i>license-feature</i>	(Optional) Show services using license
<i>__readonly__</i>	(Optional) Read only
TABLE_show_lic_usage	(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

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
<i>__readonly__</i>	(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 lisp smr

```
show lisp smr [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
lisp	LISP show commands
smr	Display SMR state for dynamic-EIDs
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 stats-cache

```
show lisp stats-cache [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

show	Show running system information
lisp	LISP show commands
stats-cache	Show dynamic statistics cache
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 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_cfg_len> <l_cfg> ] + [ <p_op_ver> <p_max_ver> <p_seq_no>
<p_ack_no> ] [ <p_tlv_type> <p_tlv_len> <p_tlv_ctrl> <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_cfg_len</i>	(Optional) local feature config 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_len</i>	(Optional) peer TLV len field
<i>p_tlv_ctrl</i>	(Optional) peer TLV control info
<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) dcxb 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 dcxb control operation version
<i>l_max_ver</i>	(Optional) local dcxb control maximum version
<i>l_seq_no</i>	(Optional) local dcxb control seq no
<i>l_ack_no</i>	(Optional) local dcxb 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 dcxb control operation version
<i>p_max_ver</i>	(Optional) peer dcxb control maximum version
<i>p_seq_no</i>	(Optional) peer dcxb control seq no

<i>p_ack_no</i>	(Optional) peer dcba 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*>]

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

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> ]
```

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

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 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> } ] } {
<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>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 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 [ { 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 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 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 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 device_test

show logging level diagnostic device_test

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
diagnostic	Diagnostic commands
device_test	Show device_test 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 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 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 glbp

show logging level glbp

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
glbp	Show glbp logging settings

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 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 hw_telemetry

show logging level hw_telemetry

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
hw_telemetry	Show hw_telemetry 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 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 keystore

show logging level { keystore | sksd }

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
keystore	Show Keystore logging configuration
sksd	show Keystore/sksd 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 license

show logging level { license | licmgr }

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
license	Show Licensing logging configuration
licmgr	Show Licensing 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 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 ldp

show logging level mpls ldp

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
ldp	Show LDP 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 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 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 onep

show logging level onep

Syntax Description

show	Show running system information
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
onep	One Platform

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 [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 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 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-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-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 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 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 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 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 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 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 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 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 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 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 server

```
show logging server [ __readonly__ [ <noentry> ] [ { TABLE_logserv <server> <forwarding> <severity>
<facility> <vrf> <port> } ] ]
```

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>noentry</code>	(Optional) logging server not 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

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



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show mac-list

```
show mac-list { [ <mac_list_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>mac_list_name</i>	(Optional) Name of mac list
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 multicast

```
show mac address-table multicast [ vlan <vlan> | bridge-domain <bdid> ] [ __readonly__ [ TABLE_vlan
<vlan-id> [ TABLE_mac <mac-addr> <type> [ 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
__readonly__	(Optional)
TABLE_vlan	(Optional)
<i>vlan-id</i>	(Optional)
TABLE_mac	(Optional)
<i>mac-addr</i>	(Optional)
<i>type</i>	(Optional)
TABLE_oif	(Optional)
<i>oifs</i>	(Optional)

Command Mode

- /exec

show mac vdc

```
show mac vdc <vdc_id> [ __readonly__ <vdc_id> <mac_address> ]
```

Syntax Description

show	show
mac	show management port mac address of the given vdc
vdc	show management port mac address of this vdc id
<i>vdc_id</i>	please enter vdc id
<i>__readonly__</i>	(Optional)
<i>vdc_id</i>	(Optional)
<i>mac_address</i>	(Optional)

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> <cipher>
<cipher_operational> <window> <conf_offset> <conf_offset_operational> <sak_status> <sak_an> <sak_ki>
<sak_kn> <last_sak_rekey_time> <peer_count> [ 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
__readonly__	(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>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
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

mka	Show MKA information
statistics	Show MKA statistics
interface	(Optional) Specify interface
<i>ifname</i>	(Optional) Interface list
<i>__readonly__</i>	(Optional)
<i>macsec_status</i>	(Optional) Macsec status
TABLE_mka_intf_stats	(Optional) MKA Interface statistics
TABLE_ca_stats	(Optional) CA Statistics
<i>ca_stat_ckn</i>	(Optional) CA Statistics CKN
<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_tx</i>	(Optional) MKPDU Statistics MKPDU Tx
<i>mkpdu_stat_mkpdu_tx_distsak</i>	(Optional) MKPDU Statistics MKPDU Tx distributed SAK
<i>mkpdu_stat_mkpdu_rx</i>	(Optional) MKPDU Statistics MKPDU Rx
<i>mkpdu_stat_mkpdu_rx_distsak</i>	(Optional) MKPDU Statistics MKPDU Rx distributed SAK
TABLE_idb_stats	(Optional) IDB Statistics
<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_tx</i>	(Optional) MKPDU Statistics MKPDU Tx
<i>mkpdu_stat_mkpdu_tx_distsak</i>	(Optional) MKPDU Statistics MKPDU Tx distributed SAK
<i>mkpdu_stat_mkpdu_rx</i>	(Optional) MKPDU Statistics MKPDU Rx
<i>mkpdu_stat_mkpdu_rx_distsak</i>	(Optional) MKPDU Statistics MKPDU Rx distributed SAK
<i>idb_stat_mkpdu_tx_success</i>	(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_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

<i>TABLE_mka_gbl_stats</i>	(Optional) MKA Global Statistics
<i>session_secured</i>	(Optional) Session secured
<i>session_deleted</i>	(Optional) Session deleted
<i>session_keepalive_timeout</i>	(Optional) Session keepalive timeout
<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
<i>mka_error_mkpdu_failure_mkpdu_invalid_peer_mn_error</i>	(Optional) MKA Error - MKPDU failure - invalid peer MN error
<i>mka_error_mkpdu_failure_mkpdu_nonrecent_peerlist_mn_error</i>	(Optional) MKA Error - MKPDU failure - non recent peerlist MN error

<i>mka_err_mkpdu_failure_sakuse_kn_mismatch_err</i>	(Optional) MKA Error - MKPDU failure - SAKuse KN mismatch error
<i>mka_err_mkpdu_failure_sakuse_rx_not_set_err</i>	(Optional) MKA Error - MKPDU failure - SAKuse Rx not set error
<i>mka_err_mkpdu_failure_sakuse_key_mi_mismatch_err</i>	(Optional) MKA Error - MKPDU failure - SAKuse key MI mismatch error
<i>mka_err_mkpdu_failure_sakuse_an_not_in_use_err</i>	(Optional) MKA Error - MKPDU failure - SAKuse AN not in use error
<i>mka_err_mkpdu_failure_sakuse_ks_rx_tx_not_set_err</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> } ]
```

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

Command Mode

- /exec

show macsec secy statistics

```
show macsec secy statistics [ interface <ifname> ] [ __readonly__ [ <macsec_status> ] [ TABLE_statistics
<ifname2> [ <in_pkts_unicast_uncontrolled> ] [ <in_pkts_multicast_uncontrolled> ] [
<in_pkts_broadcast_uncontrolled> ] [ <in_rx_drop_pkts_uncontrolled> ] [ <in_rx_err_pkts_uncontrolled> ] [
<in_pkts_unicast_controlled> ] [ <in_pkts_multicast_controlled> ] [ <in_pkts_broadcast_controlled> ] [
<in_rx_drop_pkts_controlled> ] [ <in_rx_err_pkts_controlled> ] [ <in_octets_uncontrolled> ] [
<in_octets_controlled> ] [ <input_rate_uncontrolled_pps> ] [ <input_rate_uncontrolled_bps> ] [
<input_rate_controlled_pps> ] [ <input_rate_controlled_bps> ] [ <out_pkts_unicast_uncontrolled> ] [
<out_pkts_multicast_uncontrolled> ] [ <out_pkts_broadcast_uncontrolled> ] [ <out_rx_drop_pkts_uncontrolled>
] [ <out_rx_err_pkts_uncontrolled> ] [ <out_pkts_unicast_controlled> ] [ <out_pkts_multicast_controlled>
] [ <out_pkts_broadcast_controlled> ] [ <out_rx_drop_pkts_controlled> ] [ <out_rx_err_pkts_controlled> ] [
<out_octets_uncontrolled> ] [ <out_octets_controlled> ] [ <out_octets_common> ] [
<output_rate_uncontrolled_pps> ] [ <output_rate_uncontrolled_bps> ] [ <output_rate_controlled_pps> ] [
<output_rate_controlled_bps> ] [ <in_pkts_transform_error> ] [ <in_pkts_control> ] [ <in_pkts_untagged>
] [ <in_pkts_no_tag> ] [ <in_pkts_badtag> ] [ <in_pkts_no_sci> ] [ <in_pkts_unknown_sci> ] [
<in_pkts_tagged_ctrl> ] [ <out_pkts_transform_error> ] [ <out_pkts_control> ] [ <out_pkts_untagged> ] [
TABLE_rx_sa_an <rx_sa_an> [ <in_pkts_unchecked> ] [ <in_pkts_delayed> ] [ <in_pkts_late> ] [
<in_pkts_ok> ] [ <in_pkts_invalid> ] [ <in_pkts_not_valid> ] [ <in_pkts_not_using_sa> ] [
<in_pkts_unused_sa> ] [ <in_octets_decrypted> ] [ <in_octets_validated> ] [ TABLE_tx_sa_an <tx_sa_an>
[ <out_pkts_encrypted_protected> ] [ <out_pkts_too_long> ] [ <out_pkts_sa_not_inuse> ] [
<out_octets_encrypted_protected> ] ] ] ] ]
```

Syntax Description

show	Show running system information
macsec	Show MACSEC information
secy	Show MACSEC secy entity information
statistics	Show MACSEC secy statistics
interface	(Optional) Specify interface
<i>ifname</i>	(Optional) Interface list
<i>__readonly__</i>	(Optional)
<i>macsec_status</i>	(Optional) Macsec status
TABLE_statistics	(Optional) MACsec secy statistics
<i>in_pkts_unicast_uncontrolled</i>	(Optional) In Pkts Unicast Uncontrolled
<i>in_pkts_multicast_uncontrolled</i>	(Optional) In Pkts Multicast Uncontrolled
<i>in_pkts_broadcast_uncontrolled</i>	(Optional) In Pkts Broadcast Uncontrolled
<i>in_rx_drop_pkts_uncontrolled</i>	(Optional) In Rx Drop Pkts Uncontrolled
<i>in_rx_err_pkts_uncontrolled</i>	(Optional) In Rx Err Pkts Uncontrolled

<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_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_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

show	Show running system information
maintenance	maintenance
on-reload	on reload maintenance mode configuration
reset-reasons	system reset reasons
<i>__readonly__</i>	(Optional)
<i>TABLE_reset_reason</i>	(Optional)
<i>rr_bitmap</i>	(Optional) reset reason bitmap
<i>reset_reason</i>	(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
<i>__readonly__</i>	(Optional)
<i>timeout</i>	(Optional) timeout value

Command Mode

- /exec

show mgmt-policy

```
show mgmt-policy { <policy-name> | all } [ __readonly__ { TABLE_mgmt_policy { <mgt-pol-name> [
<source-ip> <source-mask> ] [ <source-ip6> ] [ <src-port-rangestart> <src-port-range-end> ] [ <source-port>
] [ <dst-port-rangestart> <dest-port-range-end> ] [ <dest-port> ] } } ]
```

Syntax Description

show	Show running system information
mgmt-policy	PM Management policy
<i>policy-name</i>	Name of the policy
all	Show all policies
<i>__readonly__</i>	(Optional)
TABLE_mgmt_policy	(Optional) Management policy Details
<i>mgt-pol-name</i>	(Optional)
<i>source-ip</i>	(Optional)
<i>source-mask</i>	(Optional)
<i>src-port-rangestart</i>	(Optional)
<i>src-port-range-end</i>	(Optional)
<i>source-port</i>	(Optional)
<i>dst-port-rangestart</i>	(Optional)
<i>dest-port-range-end</i>	(Optional)
<i>dest-port</i>	(Optional)

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
<i>__readonly__</i>	(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 supported

show module supported

Syntax Description

show	Show running system information
module	Show module information
supported	Show supported sw-card-types for this chassis

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 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 | summary ] [ _readonly_ { TABLE_bnd <ldp_ctx> <llaf> <total_prefixes>
<total_rt_info> <current_prev_lbl> <current_prev_lblQ> <total_alloc_prev_lbl> <total_alloc_prev_lblQ>
<local_bindings> <rem_bindings> { 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>
<remote_lsr> <remote_label> <rem_lbl_in_use> <stale_gr> <advert_acl_pending> <peer_acl> <prefix_acl>
{ TABLE_bnd_peer_list <peer_ident> } } } ]
```

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
summary	(Optional) LDP summary information
<u>__readonly__</u>	(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
<i>total_prefixes</i>	(Optional) Total number of prefixes
<i>total_rt_info</i>	(Optional) Total tib route info allocated
<i>current_prev_lbl</i>	(Optional) Current tib previous label info allocated
<i>current_prev_lblQ</i>	(Optional) Current tib previous label queues allocated
<i>total_alloc_prev_lbl</i>	(Optional) Total tib previous label info allocated
<i>total_alloc_prev_lblQ</i>	(Optional) Total tib previous label queues allocated
<i>local_bindings</i>	(Optional) Total number of locally assigned bindings
<i>rem_bindings</i>	(Optional) Total number of remote bindings
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 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
__readonly__	(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 label statistics

show mpls label statistics <label>

Syntax Description

show	Show running system information
mpls	Display MPLS status and configuration
label	Show a specific label statistics
statistics	Statistics for the label
<i>label</i>	Label

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 [ 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 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	(Optional) VRF Routing/Forwarding instance information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
local	(Optional) Incoming (local) static label bindings
remote	(Optional) Outgoing (remote) static label bindings
inconsistency	(Optional) Inconsistent bindings between config and URIB
<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 vrf per-vrf

```
show mpls static binding [ ipv4 ] vrf { <vrf-name> | <vrf-known-name> } per-vrf [ __readonly__ {
TABLE_slb_per_vrf <slb_vrf_per_vrf> <slb_inlabel_per_vrf> } ]
```

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	VRF Routing/Forwarding instance information
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name
per-vrf	per-vrf static label bindings
__readonly__	(Optional) Read Only
TABLE_slb_per_vrf	(Optional) Show static label bindings for per-vrf deaggregation
<i>slb_vrf_per_vrf</i>	(Optional) VRF name
<i>slb_inlabel_per_vrf</i>	(Optional) Incoming label

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 } ] ]
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 } ] } | { summary } ] [ detail ] [ private ] [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ [ [ TABLE_vrf <vrf_name> [ [ TABLE_inlabel <in_label> {
<out_label_stack> + } { <ipv4_prefix> | <ipv6_prefix> } [ { <tunnel_v4_mid_source> |
<tunnel_v6_mid_source> } <tunnel_id> { <ext_v4_tunnel_id> | <ext_v6_tunnel_id> } <tunnel_instance>
<deagg_vrf> <deagg_af> <tunnel_head> ] <out_interface> { <ipv4_next_hop> | <ipv6_next_hop> } [
<nhlfe_p2p_flag> ] [ <nhlfe_frr_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> ] [ <fec_none_label> ] [ <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
<i>ip-addr</i>	(Optional) Match destination address
<i>ipv4-prefix</i>	(Optional) Specify an IP prefix/mask
fec	(Optional) Show FEC information in the ULIB
private	(Optional) Show more detailed information in the ULIB
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	(Optional) Summarized information
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
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_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>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)
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)
<i>TABLE_vrf</i>	(Optional)
<i>out_context</i>	(Optional)
<i>TABLE_encap</i>	(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



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show nbm controller

show nbm controller [*__readonly__* <vrf> <ip> <status> <online_since>]

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
controller	Controller mode information
<i>__readonly__</i>	(Optional)
<i>vrf</i>	(Optional) nbm controller vrf
<i>ip</i>	(Optional) nbm controller ip address
<i>status</i>	(Optional) nbm controller status
<i>online_since</i>	(Optional) nbm controller online time

Command Mode

- /exec

show nbm flows

```
show nbm flows [ all | group-based | m-group <group-ip-id> | source <source-ip> [ group <group-ip> ] | group
<group-ip> [ source <source-ip> ] ] [ active | inactive | no-receiver | detail | interface <if-name> ] [ __readonly__
TABLE_flows { <mcast_grp_src_ip> <start_time> <src_intf> <lid> <status> <num_rx> <bw_mbps>
<cfg_mbps> <src_slot> <unit> <slice> } [ { <act_slot> <act_unit> <stdby_slot> <stdby_unit> } ] [ { <dscp>
<qos> } ] [ <flag> ] [ { <n_link> <num_links> } ] [ { <slot_2> <unit_2> <num_rx_2> } ] [ { <iiod> <ilink>
<i_ifidx> <fab_iiod> <fab_oiod> <fab_ifidx> <oiod> <olink> <i_ieth_port> <fab_ieth_port> } ] [ {
<rcv_if_idx> <ioid> <name> } ] [ { <end_timestr> <flow_rate_bps> <packets> <bytes> } ] ]
```

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
flows	NBM flows
active	(Optional) Active flows
inactive	(Optional) Inactive flows
no-receiver	(Optional) Flows without any receiver
all	(Optional) Both active and deleted flows
group-based	(Optional) Multicast group based (*,G) flows to IGMP receivers
m-group	(Optional) Multicast group
<i>group-ip-id</i>	(Optional) Multicast group address
source	(Optional) Source ip of sender
<i>source-ip</i>	(Optional) Sender ip address
group	(Optional) Multicast group
<i>group-ip</i>	(Optional) Multicast group address
interface	(Optional) Ingress port
detail	(Optional) Detailed output
<i>if-name</i>	(Optional) Interface name
__readonly__	(Optional)
TABLE_flows	(Optional) Flow stats table
<i>mcast_grp_src_ip</i>	(Optional) Multicast group ip and Source IP
<i>start_time</i>	(Optional) Start time
<i>src_intf</i>	(Optional) Incoming source interface

<i>lid</i>	(Optional) LID
<i>status</i>	(Optional) Flow status
<i>num_rx</i>	(Optional) Number of receivers
<i>bw_mbps</i>	(Optional) Set bandwidth
<i>cfg_mbps</i>	(Optional) Configured bandwidth
<i>src_slot</i>	(Optional) Source slot
<i>unit</i>	(Optional) Source unit
<i>slice</i>	(Optional) Source slice
<i>dscp</i>	(Optional) Flow DSCP
<i>qos</i>	(Optional) Flow QOS group
<i>flag</i>	(Optional) Flow not guarantee flag
<i>n_link</i>	(Optional) N Link
<i>num_links</i>	(Optional) Number of Links
<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>slot_2</i>	(Optional) Slot
<i>unit_2</i>	(Optional) Unit
<i>num_rx_2</i>	(Optional) Number of Receivers
<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>rcv_if_idx</i>	(Optional) Receiver IF IDX
<i>iod</i>	(Optional) IOD
<i>name</i>	(Optional) Ethernet 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 bandwidth

show nbm flows bandwidth

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
flows	NBM flows
bandwidth	Per Flow Bandwidth in Mbps

Command Mode

- /exec

show nbm flows statistics

```
show nbm flows statistics [ group-based | m-group <group-ip-id> ] [ interface <if-name> ] [ __readonly__ {
TABLE_stats <mcast_grp_src_ip> <start_time> <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
m-group	(Optional) Multicast group
<i>group-ip-id</i>	(Optional) Multicast group address
interface	(Optional) Ingress port
<i>if-name</i>	(Optional) Interface name
__readonly__	(Optional)
TABLE_stats	(Optional) Flow stats table
<i>mcast_grp_src_ip</i>	(Optional) Multicast group ip and Source IP
<i>start_time</i>	(Optional) Start time
<i>src_intf</i>	(Optional) Incoming 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 switch-role

show nbm switch-role [__readonly__ <switch_role>]

Syntax Description

show	Show running system information
nbm	Non Blocking Multicast
switch-role	Switch role information
__readonly__	(Optional)
<i>switch_role</i>	(Optional) switch role

Command Mode

- /exec

show ngoam acl status

show ngoam acl status [*__readonly__* [*LIST_bds* { *<bd-id>* }] *<end-row>* *<top-line>*]

Syntax Description

show	Show running system information
ngoam	ngoam
acl	Show acl info
status	Show acl install status
<i>__readonly__</i>	(Optional) Read Only
<i>LIST_bds</i>	(Optional) List of all bds acls is installed on
<i>bd-id</i>	(Optional) Bridge-Domain identifier
<i>end-row</i>	(Optional) Carriage return
<i>top-line</i>	(Optional) Placeholder for printing the headline

Command Mode

- /exec

show ngoam actsessions

show ngoam actsessions

Syntax Description

show	Show running system information
ngoam	ngoam information
actsessions	show

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> {
<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
<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
__readonly__	(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> { <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> { <seq-number> <cli-status> [ <reply-ip> ] [ <reply-ipv6>
] [ <ingress-if> ] [ <ingress-if-state> ] [ <egress-if> ] [ <egress-if-state> ] [ <end-row> ] + } + } + ] [
TABLE_ifstats { <if-name> <rx-len> <rx-bytes> <rx-pkt-rate> <rx-byte-rate> <rx-load> <rx-ucast> <rx-mcast>
<rx-bcast> <rx-errors> <rx-discards> <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> } ] ]
```

Syntax Description

show	Show running system information
ngoam	ngoam
pathtrace	ngoam pathtrace
statistics	ngoam pathtrace statistics
<i>end-row</i>	(Optional) Row end
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
TABLE_stats	(Optional) statistics table
<i>sender-handle</i>	(Optional) sender handle
<i>last-clear-stats</i>	(Optional) last clear time for statistics
<i>stat-attr</i>	(Optional) stats type
<i>stat-value</i>	(Optional) stats value

<i>TABLE_summary</i>	(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>db-req-sw-fwd</i>	(Optional) Request pkts sw fwded
<i>resp-sw-fwd</i>	(Optional) Response pkts sw fwded
<i>db-resp-sw-fwd</i>	(Optional) Response pkts sw fwded
<i>req-drop</i>	(Optional) Requests dropped
<i>db-req-drop</i>	(Optional) Requests dropped
<i>resp-drop</i>	(Optional) Responses dropped
<i>db-resp-drop</i>	(Optional) Responses dropped
<i>TABLE_database</i>	(Optional) pathtrace database
<i>seq-number</i>	(Optional) Sequence number
<i>cli-status</i>	(Optional) ngoam pathtrace status
<i>ingress-if</i>	(Optional) Ingress interface
<i>egress-if</i>	(Optional) Egress interface
<i>ingress-if-state</i>	(Optional) Ingress interface state
<i>egress-if-state</i>	(Optional) Egress interface state
<i>reply-ip</i>	(Optional) ngoam pathtrace reply ip
<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-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
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
<i>__readonly__</i>	(Optional) Read Only

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 role

show ngoam role

Syntax Description

show	Show running system information
ngoam	ngoam information
role	show draft pang derived role info

Command Mode

- /exec

show ngoam traceroute statistics

```
show ngoam traceroute statistics { summary | { session { <handle> | all } } } [ __readonly__ [ TABLE_stats
{ <sender-handle> <last-clear-stats> { <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
<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

__readonly__	(Optional) Read Only
--------------	----------------------

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>	
__readonly__	(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 packets sent</i>	(Optional) peername packets sent
<i>peername packets received</i>	(Optional) peername packets received
<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 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
<i>esi-id</i>	(Optional) ESI ID
<i>__readonly__</i>	(Optional)
TABLE_es	(Optional) xml schema for show nve ethernet-segment
<i>esi</i>	(Optional) ESI value
<i>if-name</i>	(Optional) port-channel interface name
<i>es-state</i>	(Optional) Ethernet-segment oper state
<i>po-state</i>	(Optional) port-channel interface oper state
<i>nve-if-name</i>	(Optional) NVE interface name
<i>nve-state</i>	(Optional) NVE oper state
<i>host-reach-mode</i>	(Optional) host reach mode
<i>active-vlans</i>	(Optional) Active vlans on ES
<i>df-vlans</i>	(Optional) DF-vlans on ES
<i>active-vnis</i>	(Optional) Active VNIs on ES
<i>cc-failed-vlans</i>	(Optional) Vlans for which consistency check failed
<i>cc-timer-left</i>	(Optional) vlan CC timer status
<i>num-es-mem</i>	(Optional) number of es members
<i>local-ordinal</i>	(Optional) local-ordinal
<i>df-timer-st</i>	(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 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> <secondary-ip> [ { <src-if-state>
<ir-cap-mode> <adv-vmac> <nve-flags> <nve-if-handle> <src-if-holddown-tm> <src-if-holdup-tm>
<src-if-holddown-left> <vpc-compat-check> <vip-rmac> <sm-state> <peer-forwarding-mode>
<dwn-strm-vni-cfg-mode> [ <es-delay-restore-time> <es-delay-restore-time-left> ] [
<multisite-convergence-time> <multisite-convergence-time-left> ] <src-intf-last-reinit-notify-type> [
<multisite-bgw-if> <multisite-bgw-if-ip> <multisite-bgw-if-admin-state> <multisite-bgw-if-oper-state>
<multisite-bgw-if-oper-state-down-reason> ] <mcast-src-intf-last-reinit-notify-type>
<multi-src-intf-last-reinit-notify-type> } } ] ] ]
```

Syntax Description

show	Display NVE information
nve	Configure NVE information
interface	Interface
<i>nve-if</i>	(Optional) NVE interface
detail	(Optional) Detailed information
<i>__readonly__</i>	(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>ir-cap-mode</i>	(Optional) ir capable mode
<i>adv-vmac</i>	(Optional) advertise virtual rmac
<i>source-if</i>	(Optional) source-interface
<i>primary-ip</i>	(Optional) primary-ip
<i>secondary-ip</i>	(Optional) secondary-ip
<i>src-if-state</i>	(Optional) source-interface state
<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>sm-state</i>	(Optional) sm state
<i>vip-rmac</i>	(Optional) Generated VIP MAC
<i>peer-forwarding-mode</i>	(Optional) peer forwarding mode in data-plane
<i>dwn-strm-vni-cfg-mode</i>	(Optional) down stream assigned vni config mode
<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>src-intf-last-reinit-notify-type</i>	(Optional) Src-Intf last notify type
<i>mcast-src-intf-last-reinit-notify-type</i>	(Optional) Mcast-Src-Intf last notify type
<i>multi-src-intf-last-reinit-notify-type</i>	(Optional) Multi-Src-Intf last notify type
<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 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> | control-plane | data-plane ] [ detail ] ] [ control-plane-vni [ vni <vni-id> | peer-ip <user-peer-ip> ] ] [ controller ] ] [ __readonly__ TABLE_nve_peers [ [ <detail> ] [ <control-plane-vni> ] [ <if-name> ] [ <peer-ip> ] [ <peer-state> ] [ <learn-type> ] [ <uptime> ] [ <router-mac> ] [ { <first-vni> <create-ts> <config-vnis> <provision-state> <cp-vni> <vni-assignment-mode> <dcf-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	(Optional) Show peers configured by controller
__readonly__	(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> interface <nve-if> counters [ __readonly__ <peer-ip> <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 vni interface counters

```
show nve peers { <addr> | all } vni { <vni-id> | all } interface <nve-if> counters [ __readonly__
TABLE_nve_peer_vni_counters <peer-ip> <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
<u>__readonly__</u>	(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
<i>__readonly__</i>	(Optional)
<i>TABLE_nve_replication_servers</i>	(Optional) replication 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	(Optional) show vni configured by controller
__readonly__	(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> <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__ { operation_status <o_status> } [ configuration_error <c_error> ] {
TABLE_listen_on_port <l_port> } ]
```

Syntax Description

show	Show running system information
nxapi	Show nxapi status
<i>__readonly__</i>	(Optional)
operation_status	(Optional) run-time information about nxapi
<i>o_status</i>	(Optional) enabled or not
configuration_error	(Optional) config syntax error
<i>c_error</i>	(Optional) config syntax error
TABLE_listen_on_port	(Optional) listen on port table
<i>l_port</i>	(Optional) listen on port

Command Mode

- /exec



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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 onep

```
show onep { session { all | <onep-session-id> | rate-limit } [ detail ] } [ __readonly__ [ { TABLE_sessions
<ID> <Username> <State> <ReconnectTimer> <ConnectTime> <Appname> <Error> } ] [ { TABLE_details
<Appname> <Username> <State> <Error> <ConnectingTime> <ConnectTime> <ReconnectTimer> <ID>
<Version> <LastActiveTime> <Keepalive> <TransportName> <HostIP> <HostName> <Pid> [ {
TABLE_client_certificate <SerialNumber> <Issuer> [ { TABLE_validity <notBefore> <notAfter> } ]
<Subject> <KeyUsage> [ { TABLE_fingerprint <HashType> <HashValue> } ] } ] ] [ { TABLE_buckets
<Addr> <Hash> <Rate> <Last> <Current> <Limit> <ExtendedLimit> <MarkCounter> <Reject> <Accept>
} ] ]
```

Syntax Description

show	Show running system information
onep	One Platform
session	One Platform session
all	All sessions
<i>onep-session-id</i>	Specific session name
rate-limit	rate limiting feature info
<i>__readonly__</i>	(Optional)
TABLE_sessions	(Optional) all current sessions of onep
<i>ID</i>	(Optional) the session handler
<i>Username</i>	(Optional) the username
<i>State</i>	(Optional) the state
<i>ReconnectTimer</i>	(Optional) the reconnect timer
<i>ConnectTime</i>	(Optional) the connect time
<i>Appname</i>	(Optional) the application name
<i>Error</i>	(Optional) possible error message
TABLE_buckets	(Optional) all rate limit buckets
<i>Addr</i>	(Optional) the remote address
<i>Hash</i>	(Optional) the hash of the remote address
<i>Rate</i>	(Optional) the token fill rate
<i>Last</i>	(Optional) the last rate check time
<i>Current</i>	(Optional) current tokens that are accepted to consume

<i>Limit</i>	(Optional) the standard limit on tokens
<i>ExtendedLimit</i>	(Optional) the burst limit on tokens
<i>MarkCounter</i>	(Optional) the burst tokens to consume
<i>Reject</i>	(Optional) stats: rejected TCP connections
<i>Accept</i>	(Optional) stats: accepted TCP connections
<i>detail</i>	(Optional) Show detailed session info
<i>TABLE_details</i>	(Optional) all current sessions of onep
<i>ID</i>	(Optional) the session handler
<i>Appname</i>	(Optional) the application name
<i>Username</i>	(Optional) the username
<i>State</i>	(Optional) the state
<i>ConnectTime</i>	(Optional) the connected time
<i>ConnectingTime</i>	(Optional) the connecting time
<i>ReconnectTimer</i>	(Optional) the reconnect timer
<i>Version</i>	(Optional) onep version
<i>LastActiveTime</i>	(Optional) last activity time
<i>Keepalive</i>	(Optional) keepalive time
<i>TransportName</i>	(Optional) Transport name
<i>HostIP</i>	(Optional) host address
<i>HostName</i>	(Optional) host name
<i>Pid</i>	(Optional) Pid
<i>TABLE_client_certificate</i>	(Optional) client certificate
<i>SerialNumber</i>	(Optional) Serial Number
<i>Issuer</i>	(Optional) Issuer
<i>TABLE_validity</i>	(Optional) certificate validity
<i>notBefore</i>	(Optional) notBefore
<i>notAfter</i>	(Optional) notAfter
<i>Subject</i>	(Optional) Subject
<i>KeyUsage</i>	(Optional) Key Usage

TABLE_fingerprint	(Optional) certificate finger print
<i>HashType</i>	(Optional) Hash Type
<i>HashValue</i>	(Optional) Hash Value

Command Mode

- /exec

show onep cli-extensions applications

show onep cli-extensions applications [*__readonly__* <num_applications> [TABLE_applications <app_name> <app_version> <config_domain> <ver_specific>]]

Syntax Description

show	Show running system information
onep	One Platform
cli-extensions	CLI Extensions feature
applications	Onep applications using the CLI Extensions feature
<i>__readonly__</i>	(Optional)
<i>num_applications</i>	(Optional) Number of onep applications
TABLE_applications	(Optional) Table of onep applications
<i>app_name</i>	(Optional) Onep application name
<i>app_version</i>	(Optional) Onep application version
<i>config_domain</i>	(Optional) Onep config domain
<i>ver_specific</i>	(Optional) Onep application version specific

Command Mode

- /exec

show onep error

```
show onep error [ __readonly__ [ { TABLE_onep_errors <Content> } ] ]
```

Syntax Description

show	Show running system information
onep	One Platform
error	Error
__readonly__	(Optional)
TABLE_onep_errors	(Optional) Errors messages
<i>Content</i>	(Optional) error content

Command Mode

- /exec

show onep history

```
show onep history [ { archived } | { all } | { session { all | <onep-session-id> } } ] [ __readonly__ [ {
TABLE_history <Record> } ] ]
```

Syntax Description

show	Show running system information
onep	One Platform
history	One Platform history trails
archived	One Platform archived session
session	One Platform session
<i>onep-session-id</i>	Specific session name
all	All sessions
__readonly__	(Optional)
TABLE_history	(Optional) a set of history records
<i>Record</i>	(Optional) an individual history record

Command Mode

- /exec

show onep statistics

```
show onep statistics [ session { all | <onep-session-id> } ] [ __readonly__ [ { TABLE_stats_global
<SessionTotal> <ActiveSessions> <LocalDisconnect> <RemoteDisconnect> <ErrorDisconnect>
<TotalDisconnects> <TotalErrors> <AuthenticateErr> <DupAppNameErr> <MemErr> <SystemErr>
<TotalConnects> <RejectedConnects> <AcceptedConnects> <UnaffectedConnects> <FailedConnectionIndex>
<SequenceNumber> <FailureReason> <ErrorCode> <FailureTime> <RemoteHost> } ] [ {
TABLE_stats_sessions <ID> <Appname> <APIIn> <APIOut> <BytesIn> <BytesOut> <VtyCount> <Error>
} ] ]
```

Syntax Description

show	Show running system information
onep	One Platform
statistics	statistics
session	(Optional) One Platform session
all	(Optional) All sessions
<i>onep-session-id</i>	(Optional) Specific session name
<i>__readonly__</i>	(Optional)
TABLE_stats_global	(Optional) global session statistics for onep
<i>SessionTotal</i>	(Optional) total onep sessions
<i>ActiveSessions</i>	(Optional) currently active onep sessions
<i>LocalDisconnect</i>	(Optional) onep sessions locally disconnected
<i>RemoteDisconnect</i>	(Optional) onep sessions remotely disconnected
<i>ErrorDisconnect</i>	(Optional) onep sessions errored disconnected
<i>TotalDisconnects</i>	(Optional) total onep disconnected sessions
<i>TotalErrors</i>	(Optional) total onep errors
<i>AuthenticateErr</i>	(Optional) onep authentication errors
<i>DupAppNameErr</i>	(Optional) onep duplicate application name errors
<i>MemErr</i>	(Optional) onep memory errors
<i>SystemErr</i>	(Optional) onep system errors
<i>TotalConnects</i>	(Optional) total number of TCP connection attempts
<i>RejectedConnects</i>	(Optional) number of TCP connections rejected by rate limiting
<i>AcceptedConnects</i>	(Optional) number of TCP connections accepted by rate limiting

<i>UnaffectedConnects</i>	(Optional) number of TCP connections unaffected by rate limiting
<i>FailedConnectionIndex</i>	(Optional) Index of the failed connection
<i>SequenceNumber</i>	(Optional) Sequence number of the failed connection
<i>FailureReason</i>	(Optional) Failure reason of the failed connection
<i>ErrorCode</i>	(Optional) Error code of the failed connection
<i>FailureTime</i>	(Optional) Failure time of the failed connection
<i>RemoteHost</i>	(Optional) Remote host address of the failed connection
TABLE_stats_sessions	(Optional) all current sessions of onep
<i>ID</i>	(Optional) the session handler
<i>Appname</i>	(Optional) the application name
<i>APIIn</i>	(Optional) the API in
<i>APIOut</i>	(Optional) the API out
<i>BytesIn</i>	(Optional) the Bytes in
<i>BytesOut</i>	(Optional) the Bytes out
<i>VtyCount</i>	(Optional) the Vty count
<i>Error</i>	(Optional) possible error message

Command Mode

- /exec

show onep status

```
show onep status [ __readonly__ { operational_status <o_status> } { operational_enable_reason
<o_enable_reason> } { operational_version <o_version> } [ { TABLE_transports <transport_name> <status>
[ <port> ] [ <access_class> ] [ { TABLE_trustpoints <trustpoint_type> <trustpoint_name> [ {
TABLE_trustpoint_hashes <tp_hash_type> <tp_hash_value> } ] ] ] ] { session_max_limit <s_max_limit>
} { session_key <enabled> } { cpu_interval <c_interval> } { cpu_fall_threshold <c_fall_threshold> } {
cpu_rise_threshold <c_rise_threshold> } { history_buffer_on <h_buffer_on> } { history_buffer_purge
<h_buffer_purge> } { history_buffer_size <h_buffer_size> } { history_syslog <h_syslog> } [ {
TABLE_service_sets <service_set> <state> [ <enable_mask> ] <version> <accessible_by> } ] ]
```

Syntax Description

show	Show running system information
onep	One Platform
status	status
<i>__readonly__</i>	(Optional)
<i>operational_status</i>	(Optional) run-time info about onep
<i>o_status</i>	(Optional) status of onep
<i>operational_enable_reason</i>	(Optional) enable reason if onep is enabled
<i>o_enable_reason</i>	(Optional) if onep is enabled, the enable reason
<i>operational_version</i>	(Optional) run-time version about onep
<i>o_version</i>	(Optional) version of onep
TABLE_transports	(Optional) all transports of onep
<i>transport_name</i>	(Optional) the transport name
<i>status</i>	(Optional) the transport status
<i>port</i>	(Optional) the transport port
<i>access_class</i>	(Optional) the transport access-class
TABLE_trustpoints	(Optional) all trustpoints of the transport
<i>trustpoint_type</i>	(Optional) either Server-Identity or Client-Verification
<i>trustpoint_name</i>	(Optional) the name of the configured trustpoint
TABLE_trustpoint_hashes	(Optional) hashes of a certificate in each trustpoint
<i>tp_hash_type</i>	(Optional) the algorithm used to perform the hash
<i>tp_hash_value</i>	(Optional) the actual hash

session_max_limit	(Optional) maximum number of sessions allowed
<i>s_max_limit</i>	(Optional) maximum limit
session_key	(Optional) session key-required
<i>enabled</i>	(Optional) session key-required
cpu_interval	(Optional) observation interval in seconds
<i>c_interval</i>	(Optional) observation interval
cpu_fall_threshold	(Optional) falling threshold in percentage
<i>c_fall_threshold</i>	(Optional) falling threshold
cpu_rise_threshold	(Optional) rising threshold in percentage
<i>c_rise_threshold</i>	(Optional) rising threshold
history_buffer_on	(Optional) history buffer on
<i>h_buffer_on</i>	(Optional) history buffer on
history_buffer_purge	(Optional) history buffer purge
<i>h_buffer_purge</i>	(Optional) purge oldest or newest
history_buffer_size	(Optional) history buffer size
<i>h_buffer_size</i>	(Optional) history buffer size
history_syslog	(Optional) history syslog
<i>h_syslog</i>	(Optional) history syslog
TABLE_service_sets	(Optional) all registered service sets of onep
<i>service_set</i>	(Optional) service set name
<i>state</i>	(Optional) service set state
<i>enable_mask</i>	(Optional) service set enable mask
<i>version</i>	(Optional) service set version
<i>accessible_by</i>	(Optional) service set accessibility

Command Mode

- /exec

show onep trace

```
show onep trace [ __readonly__ [ { TABLE_onep_traces <Content> } ] ]
```

Syntax Description

show	Show running system information
onep	One Platform
trace	Trace
__readonly__	(Optional)
TABLE_onep_traces	(Optional) all internal traces
<i>Content</i>	(Optional) trace content

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 | summary ] ] | stats ]
```

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
table-id	(Optional) Table-id for the pipeline
<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_notify_period> ] [ <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> ] [
<ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] [ { 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> <no_discard_rt_ext> <no_discard_rt_int> [
<bfd_enabled> ] [ <passive_dflt> ] [ <name_lookup> ] [ { 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> <spf_runs> <last_spf_run_time>
[ <rtr_lsa_throt> ] [ <ipsec_sa_type> ] [ <ipsec_sa_algorithm> ] [ <ipsec_sa_spi> ] [ 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_notify_period</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)
<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_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>bfd_enabled</i>	(Optional)
<i>passive_dflt</i>	(Optional)
<i>name_lookup</i>	(Optional)
<i>no_discard_rt_ext</i>	(Optional)
<i>no_discard_rt_int</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>spf_runs</i>	(Optional)
<i>last_spf_run_time</i>	(Optional)
<i>rtr_lsa_throt</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_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	(Optional) Display all OSPFv3 routes
<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 event-history

```
show ospfv3 [ <tag> ] [ internal ] event-history { errors | msgs | statistics | adjacency | event | ha | flooding |
lsa | spf | redistribution | hello | spf-trigger | cli | rib }
```

Syntax Description

show	Show running system information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Show various event logs of OSPF
errors	Error logs
msgs	IPC logs
statistics	Show the state and size of the buffers
adjacency	Adjacency formation logs
event	Internal event logs
ha	HA and GR logs
flooding	LSA flooding logs
lsa	LSA generation and database logs
spf	SPF calculation logs
redistribution	Redistribution logs
hello	Hello related logs
spf-trigger	SPF TRIGGER related logs
cli	Cli logs
rib	RIB related logs

Command Mode

- /exec

show ospfv3 event-history detail

show ospfv3 [<tag>] [internal] event-history detail [statistics]

Syntax Description

show	Show running system information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
internal	(Optional) Commands for internal use
event-history	Show event history of OSPF
detail	Show detailed event history information
statistics	(Optional) Show the state and size of the verbose history buffer

Command Mode

- /exec

show ospfv3 ha

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ha [ vrf { <vrf-name> |
<vrf-known-name> | all } ] [ __readonly__ TABLE_ctx <ptag> <cname> <stateful> <pss_restored> <pss_state>
<gr_enabled> <gr_grace_period> <gr_state> <gr_last_status> <gr_helper_mode> ]
```

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
ha	High Availability status
<i>__readonly__</i>	(Optional)
<i>TABLE_ctx</i>	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
<i>stateful</i>	(Optional)
<i>pss_restored</i>	(Optional)
<i>pss_state</i>	(Optional)
<i>gr_enabled</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)

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> [ <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> ] [ <pacing_timer> ] [ <lsu_timer> ] [ <lsack_timer> ] [ <netlsa_throt_timer> ] [ <link_lsa_cnt>
] [ <link_lsa_crc> ] [ <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
interface	OSPF enabled interface
interface	(Optional) OSPF enabled interface
private	(Optional) Developer-only statistics
__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>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>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>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 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 memory

```
show [ ipv6 ] ospfv3 [ <tag> ] memory [ __readonly__ TABLE_mem <ptag> <byte_total> <byte_consumed>
<byte_overhead> <byte_allocated> <alloc_current> <alloc_created> <alloc_failed> <alloc_free> <bf_current>
<bf_created> <bf_failed> <bf_free> <bf_byte_consumed> <bf_32_current> <bf_32_created> <bf_32_failed>
<bf_32_free> <bf_32_byte_consumed> <slab_current> <slab_created> <slab_failed> <slab_free>
<slab_byte_consumed> <if_index_alloc_failed> <nbr_index_alloc_failed> ]
```

Syntax Description

show	Show running system information
ipv6	(Optional) Display IPv6 information
ospfv3	Display OSPFv3 status and configuration
<i>tag</i>	(Optional) Process tag
memory	Memory usage statistics
<i>__readonly__</i>	(Optional)
TABLE_mem	(Optional)
<i>ptag</i>	(Optional)
<i>byte_total</i>	(Optional)
<i>byte_consumed</i>	(Optional)
<i>byte_overhead</i>	(Optional)
<i>byte_allocated</i>	(Optional)
<i>alloc_current</i>	(Optional)
<i>alloc_created</i>	(Optional)
<i>alloc_failed</i>	(Optional)
<i>alloc_free</i>	(Optional)
<i>bf_current</i>	(Optional)
<i>bf_created</i>	(Optional)
<i>bf_failed</i>	(Optional)
<i>bf_free</i>	(Optional)
<i>bf_byte_consumed</i>	(Optional)
<i>bf_32_current</i>	(Optional)
<i>bf_32_created</i>	(Optional)

<i>bf_32_failed</i>	(Optional)
<i>bf_32_free</i>	(Optional)
<i>bf_32_byte_consumed</i>	(Optional)
<i>slab_current</i>	(Optional)
<i>slab_created</i>	(Optional)
<i>slab_failed</i>	(Optional)
<i>slab_free</i>	(Optional)
<i>slab_byte_consumed</i>	(Optional)
<i>if_index_alloc_failed</i>	(Optional)
<i>nbr_index_alloc_failed</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> ] ] ] ]
```

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
<i>neighbor</i>	(Optional) Router ID of neighbor
detail	Show detailed neighbor display
private	(Optional) Developer-only statistics
__readonly__	(Optional)
TABLE_ctx	(Optional)
<i>ptag</i>	(Optional)
<i>cname</i>	(Optional)
TABLE_nbr	(Optional)
<i>rid</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>pacingtmer</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>sendsreq</i>	(Optional)
<i>sendsu</i>	(Optional)
<i>sendsurxmt</i>	(Optional)
<i>sendsack</i>	(Optional)
<i>sendsreqreply</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 policy statistics

```
show [ ipv6 ] ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] policy statistics { { redistribute
{ bgp <as> | { isis | rip } <tag> | static | direct | amt } } | { area <area-id-ip> filter-list { in | out } } } [ vrf {
<vrf-name> | <vrf-known-name> | all } ]
```

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
policy	Display Policy related information
statistics	Display Route Filter statistics
redistribute	Statistics for redistribution
rip	Routing Information Protocol (RIP)
isis	ISO Intermediate-to-Intermediate (IS-IS)
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
static	Static
direct	Directly connected
amt	AMT anycast prefix
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas
in	Filter networks sent to this area
out	Filter networks sent from this area
<i>tag</i>	

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

<code>show</code>	Show running system information
<code>ipv6</code>	(Optional) Display IPv6 information
<code>ospfv3</code>	Display OSPFv3 status and configuration
<code>tag</code>	(Optional) Process tag
<code>request-list</code>	Link state request list
<code>interface</code>	OSPF enabled interface
<code>ip-addr</code>	Neighbor router ID
<code>neighbor-name</code>	DNS Name of the neighbor
<code>__readonly__</code>	(Optional)
<code>TABLE_ctx</code>	(Optional)
<code>ptag</code>	(Optional)
<code>cname</code>	(Optional)
<code>TABLE_lsreq</code>	(Optional)
<code>nbr_rid</code>	(Optional)
<code>intf</code>	(Optional)
<code>total</code>	(Optional)
<code>TABLE_lsa</code>	(Optional)
<code>type</code>	(Optional)
<code>lsid</code>	(Optional)
<code>advrtr</code>	(Optional)
<code>seqno</code>	(Optional)
<code>cksum</code>	(Optional)
<code>age</code>	(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_rib>
<direct> [ <area> ] [ <tag> ] [ <vlink_unresolved> ] [ TABLE_route_ubest_nh [ <ubest_nh_addr> ] [
<ubest_nh_intf> ] [ <ubest_cost> ] [ <distance> ] [ <ubest_nh_direct> ] [ <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	(Optional) Display all OSPFv3 routes
<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_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_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	(Optional) Developer-only statistics
<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>pacingtmer</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>sendsreq</i>	(Optional)
<i>sendsu</i>	(Optional)
<i>sendsurxmt</i>	(Optional)
<i>sendsack</i>	(Optional)
<i>sendsreqreply</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 password secure-mode](#), on page 1778
- [show password strength-check](#), on page 1779
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show param-list

```
show param-list [ param-list-name <plistname> ] [ show-instance ] [ __readonly__ <param_list_header_flag>
<param_list_name> <param_list_var> <param_list_type> <param_instance_header_flag>
<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)
<i>param_list_header_flag</i>	(Optional)
<i>param_list_name</i>	(Optional)
<i>param_list_var</i>	(Optional)
<i>param_list_type</i>	(Optional)
<i>param_instance_header_flag</i>	(Optional)
<i>param_instance_name</i>	(Optional)
<i>param_instance_var</i>	(Optional)
<i>param_instance_val</i>	(Optional)

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
__readonly__	(Optional)
operation_status	(Optional) run-time information about password strength-check
<i>o_status</i>	(Optional) operational status of password strength check

Command Mode

- /exec

show pending

show [pending]

Syntax Description

show	Display region configurations
pending	(Optional) Display the new mst configuration to be applied

Command Mode

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

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
<i>__readonly__</i>	(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 session device-group

```
show plb session device-group [ <group-name> ] [ __readonly__ <first_entry> [ TABLE_svc <node> ] ]
```

Syntax Description

show	Show running system information
plb	Display PLB service details
session	PLB service session
device-group	Session device-group
<i>group-name</i>	(Optional) Device-group name
<i>__readonly__</i>	(Optional) Read Only
<i>first_entry</i>	(Optional)
TABLE_svc	(Optional)
<i>node</i>	(Optional) node

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
TABLE_svc	(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 [<iface-list>] [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 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> [ <desc> ] [ TABLE_cmap <cmap-key> [ <type-cmap-spec> ] [ <xqos-or-q> ] [
<cmap-name> ] [ TABLE_action <action-key> [ <serv-pol-type> ] [ <serv-pol-name> ] [ <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> ] [ 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> ] [ <rdet-burst-opt> ] [ <rdet-mesh-opt> ] ] [ <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>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>cmap-name</i>	(Optional) Class-map name
<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>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_be> ] [ <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 interface type psp

```
show policy-map interface { [ <ifnum> ] } type psp { [ <pmap-name> [ client <clienttype> <clientID> ] ] | [
handle <ppf_id> ] } { [ class-map-list { [ <cmap-name-plc> + ] | [ class-map-handle <ppf_id1> + ] } ] } [
__readonly__ { [ <number-of-classes> ] [ <display-all> ] [ TABLE_pmap <pmap-key> <id> <pmap-name-out>
[ <desc> ] [ TABLE_cmap <cmap-key> [ <cmap-name-out> ] [ TABLE_interface <interface> <byte-count>
] ] ] }
```

Syntax Description

show	Show running system information
policy-map	Show policy maps
interface	Show stats for interface
<i>ifnum</i>	(Optional) Interface type and number
type	Type of the policy-map
psp	type psp
<i>pmap-name</i>	(Optional) Policy-map name
client	(Optional) set client type
<i>clienttype</i>	(Optional) cli/onep
<i>clientID</i>	(Optional) client appID
handle	(Optional) Handle
<i>ppf_id</i>	(Optional) PPF ID
class-map-list	(Optional) Class-map list
<i>cmap-name-plc</i>	(Optional) Class-map name
class-map-handle	(Optional) Class-map Handle/s
<i>ppf_id1</i>	(Optional) PPF ID
__readonly__	(Optional)
<i>display-all</i>	(Optional) Display all kinds of policymaps
<i>number-of-classes</i>	(Optional) Total number of classes for which stats are returned
TABLE_pmap	(Optional) all pmap xml sessions
<i>id</i>	(Optional) Policy-map ID
<i>pmap-key</i>	(Optional) Policy-map name: xml key
<i>pmap-name-out</i>	(Optional) Policy-map name

<i>desc</i>	(Optional) Description string
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
<i>cmap-name-out</i>	(Optional) Class-map name
TABLE_interface	(Optional) all interface xml sessions
<i>interface</i>	(Optional) Interface type and number
<i>byte-count</i>	(Optional) Byte Count Statistic

Command Mode

- /exec

show policy-map system

```
show policy-map system [ type { network-qos | qos [ input2 ] | queuing [ input | output ] } ] [ __readonly__
{ [ <display-all> ] [ <desc> ] [ <xpmap-name> ] [ <xcmap-name> ] [ <cos-list> ] [ <qos-group-list> ] [
<protocol> ] [ <timeout> ] [ <pause> <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> [ TABLE_match <match-key>
[ <not> ] [ <inner> ] [ <cos-list> ] [ <match-cmap-xqos-or-q> ] [ <match-cmap-opts> ] [ <match-cmap-name>
] ] [ TABLE_action <action-key> [ <set-inner> ] [ <cos> ] [ <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> ] [
TABLE_rdet <rdet-key> [ <rdet-values> ] [ <rdet-min-thresh> ] [ <rdet-size-units> ] [ <rdet-max-thresh> ]
[ <rdet-drop-prob> ] [ <rdet-weight> ] [ <rdet-ecn> ] [ <rdet-cap-average> ] [ <rdet-burst-opt> ] [
<rdet-mesh-opt> ] ] [ 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
<i>xpmap-name</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
<i>xcmap-name</i>	(Optional) Class-map name
<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</i>	(Optional) protocol
<i>dctcp-threshold</i>	(Optional) DCTCP threshold in bytes
<i>cos-list</i>	(Optional) List of class-of-service values
<i>qos-group-list</i>	(Optional) List of qos-group values
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>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-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

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_pmap
<xpmap-name> [ <desc> ] [ TABLE_class_type <xcmap-name> [ <pause> ] [ <timeout> ] [ <size-in-bytes>
] [ <xoff-bytes> ] [ <xon-bytes> ] [ <pfc-cos-list> ] [ <cc> ] [ <thresh-units> ] [ <min-thresh> ] [ <max-thresh>
] [ <drop-prob> ] [ <iod> ] [ <mtu> ] [ <set-cos> ] [ <dpp> ] [ <dctcp-threshold> ] [ <queue-limit> ] [
<pfc_rx_only> ] ] ] } ]
```

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_pmap	(Optional) table for policy maps
TABLE_class_type	(Optional) table for class type
<i>xpmap-name</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
<i>xcmap-name</i>	(Optional) Class-map name
<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 policy-map type psp

```
show policy-map type psp { [ <pmap-name> [ client <clienttype> <clientID> ] [ cfg-mode <cfgmode> ] ] | [
handle <ppf_id> ] } [ __readonly__ { [ <display-all> ] [ TABLE_pmap <pmap-key> <id> <pmap-name-out>
[ <desc> ] [ TABLE_cmap <cmap-key> <if-else-id> <cmap-id> [ class-default ] [ <cmap-name-out> ] [
TABLE_action <action-key> [ <cos-val> ] [ <src-mac-addr> ] [ <dest-mac-addr> ] [ <vlan-number> ] [
<ip-tos-value> ] [ <interface-name> ] [ action-strip-vlan ] [ action-drop-pkt ] [ divert-action ] [ copy-action ]
[ forward-normal ] [ <goto-pmap-handle> ] [ action-decrement-ttl ] ] ] ] }
```

Syntax Description

show	Show running system information
policy-map	Show policy maps
type	Type of the policy-map
psp	type psp
<i>pmap-name</i>	(Optional) Policy-map name
client	(Optional) set client type
<i>clienttype</i>	(Optional) cli/onep
<i>clientID</i>	(Optional) client appID
cfg-mode	(Optional) cfg-mode
<i>cfgmode</i>	(Optional) persistent/transient
handle	(Optional) Handle
<i>ppf_id</i>	(Optional) PPF ID
<i>__readonly__</i>	(Optional)
<i>display-all</i>	(Optional) Display all kinds of policymaps
TABLE_pmap	(Optional) all pmap xml sessions
<i>id</i>	(Optional) Policy-map ID
<i>pmap-key</i>	(Optional) Policy-map name: xml key
<i>pmap-name-out</i>	(Optional) Policy-map name
<i>desc</i>	(Optional) Description string
TABLE_cmap	(Optional) all cmap xml sessions
<i>cmap-key</i>	(Optional) Class-map name: xml key
<i>if-else-id</i>	(Optional) If-Else ID

<i>cmap-id</i>	(Optional) Class-map ID
<i>class-default</i>	(Optional)
<i>cmap-name-out</i>	(Optional) Class-map name
TABLE_action	(Optional) all action xml sessions
<i>action-key</i>	(Optional) action count: xml key
<i>cos-val</i>	(Optional) 802.1Q Class of Service value
<i>src-mac-addr</i>	(Optional) Layer 2 MAC Address
<i>dest-mac-addr</i>	(Optional) Layer 2 MAC Address
<i>vlan-number</i>	(Optional) VLAN NUMBER
<i>ip-tos-value</i>	(Optional) IPv4 TOS Value
<i>interface-name</i>	(Optional) Physical Interface Name and Number
<i>action-strip-vlan</i>	(Optional) Perform the action STRIP-VLAN-ID
<i>action-drop-pkt</i>	(Optional) Perform the action Drop the Packet
<i>divert-action</i>	(Optional) Divert the packets to Controller
<i>copy-action</i>	(Optional) Copy the packets to Controller
<i>forward-normal</i>	(Optional) Forward the packets normally
<i>goto-pmap-handle</i>	(Optional) Pmap handle
<i>action-decrement-ttl</i>	(Optional) Decrement TTL on the Packet

Command Mode

- /exec

show port-channel load-balance

```
show port-channel load-balance { [ module <module> ] | { fex { all } } } [ __readonly__ [ <sys-cfg> ] [ {
<module-cfg> } ] + <non-ip-val> <non-ip-sel> <ipv4-val> <ipv4-sel> [ <ipv6-val> ] { TABLE_mod_configs
[ <mod-number> ] <mod-non-ip-val> <mod-non-ip-sel> <mod-ipv4-val> <mod-ipv4-sel> } ]
```

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
<i>__readonly__</i>	(Optional)
<i>sys-cfg</i>	(Optional) system wide load balance configuraton
<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
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

Command Mode

- /exec

show port-profile

```
show port-profile [ name <all_profile_name> ] [ __readonly__ <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)
<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__ <profile_name> <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)
<i>profile_name</i>	(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> <status> <inherit> <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__ { TABLE_eth_port_sec_interfaces <secure_port> <max_secure_addr>
<current_addr> <security_violation> <security_action> <num_val> <num_elems> <cmdid_show_index>
<port_state> } <total_addr> <max_sys_limit> ]
```

Syntax Description

port-security	Show secure port information
<i>__readonly__</i>	(Optional)
TABLE_eth_port_sec_interfaces	(Optional) Displays the secured interfaces
<i>secure_port</i>	(Optional) Interface Index
<i>max_secure_addr</i>	(Optional) Maximum number of secured MAC addresses
<i>current_addr</i>	(Optional) Number of secured MAC addresses
<i>security_violation</i>	(Optional) Number of security violations
<i>security_action</i>	(Optional) Security Action Shutdown/Restrict/Protect
<i>num_val</i>	(Optional) Number of Values
<i>num_elems</i>	(Optional) Number of Elements
<i>cmdid_show_index</i>	(Optional) Index for the Interfaces
<i>port_state</i>	(Optional) Port security enabled or disabled
<i>total_addr</i>	(Optional) Total number of secured MAC addresses
<i>max_sys_limit</i>	(Optional) Maximum allowed MACs excluding one per port

Command Mode

- /exec

show port-security address

```
show port-security address [ __readonly__ { TABLE_eth_port_sec_mac_addrs <vlan_id> <mac_addr> <type>
<if_index> <remain_age> <remote_learnt> <remote_aged> <num_elems> <cmd_addr_index> } <total_addr>
<max_sys_limit> ]
```

Syntax Description

port-security	Show secure port information
address	Show secure address
__readonly__	(Optional)
TABLE_eth_port_sec_mac_addrs	(Optional) Displays the secured MAC addresses
if_index	(Optional) Interface index
vlan_id	(Optional) vlan id
mac_addr	(Optional) mac address
type	(Optional) static/sticky/dyanmic MAC address
remain_age	(Optional) Remaining age
remote_learnt	(Optional) Remotely learnt
remote_aged	(Optional) Remotely Aged Out
num_elems	(Optional) Number of Elements
cmd_addr_index	(Optional) Index for the interface address
total_addr	(Optional) Total number of secured MAC addresses
max_sys_limit	(Optional) Maximum allowed MACs excluding one per port

Command Mode

- /exec

show port-security address blocked

```
show port-security address blocked [ __readonly__ { TABLE_eth_port_sec_mac_addrs <vlan_id> <mac_addr>
<type> <if_index> <remain_age> <num_elems> <cmd_addr_index> } <total_addr> <max_sys_limit> ]
```

Syntax Description

port-security	Show secure port information
address	Show secure address
blocked	Port Security Blocked macs
<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>mac_addr</i>	(Optional) mac address
<i>type</i>	(Optional) static/sticky/dyanmic MAC address
<i>remain_age</i>	(Optional) Remaining age
<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

Command Mode

- /exec

show port-security address interface

```
show port-security address interface <interface-id> [ __readonly__ { TABLE_eth_port_sec_mac_addrs
<vlan_id> <mac_addr> <type> <if_index> <remain_age> <remote_learnt> <remote_aged> <num_elems>
} <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>mac_addr</i>	(Optional) mac address
<i>type</i>	(Optional) static/sticky/dyanmic 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>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 address nvrाम

```
show port-security address nvrाम [ __readonly__ { TABLE_eth_port_sec_mac_addrs <vlan_id> <mac_addr>
<type> <if_index> <remain_age> <remote_learnt> <remote_aged> <num_elems> <cmd_addr_index> }
<total_addr> <max_sys_limit> ]
```

Syntax Description

port-security	Show secure port information
address	Show secure address
nvrाम	Port Security NVRAM
__readonly__	(Optional)
TABLE_eth_port_sec_mac_addrs	(Optional) Displays the secured MAC addresses
if_index	(Optional) Interface index
vlan_id	(Optional) vlan id
mac_addr	(Optional) mac address
type	(Optional) static/sticky/dyanmic MAC address
remain_age	(Optional) Remaining age
remote_learnt	(Optional) Remotely learnt
remote_aged	(Optional) Remotely Aged Out
num_elems	(Optional) Number of Elements
cmd_addr_index	(Optional) Index for the interface address
total_addr	(Optional) Total number of secured MAC addresses
max_sys_limit	(Optional) Maximum allowed MACs excluding one per port

Command Mode

- /exec

show port-security detail interface

```
show port-security detail interface [ __readonly__ { TABLE_eth_port_sec_intf_detail <if_index>
<port_security> <port_status> <violation_mode> <aging_time> <aging_type> <max_mac_addr>
<total_sec_addrs> <trap_count> <addr_aging_enable> <secure_last_mac_addr> <sticky_enable>
<secure_last_mac_addr_vlan_id> } ]
```

Syntax Description

<i>port-security</i>	Show secure port information
<i>detail</i>	Show detailed information about secure interface
<i>interface</i>	Show secure interface
<i>TABLE_eth_port_sec_intf_detail</i>	(Optional) Displays the secured interface details
<i>__readonly__</i>	(Optional)
<i>if_index</i>	(Optional) Interface index
<i>port_security</i>	(Optional) Port Security is Enabled/Disabled
<i>port_status</i>	(Optional) Secure Up/Down
<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) Maximum number of MAC addresses that can be secured
<i>total_sec_addrs</i>	(Optional) Total number of secured MAC addresses
<i>trap_count</i>	(Optional) Trap Count
<i>addr_aging_enable</i>	(Optional) Specifies whether address aging is enabled
<i>secure_last_mac_addr</i>	(Optional) Secured last mac address
<i>sticky_enable</i>	(Optional) Specifies sticky feature is enabled on the port
<i>secure_last_mac_addr_vlan_id</i>	(Optional) Indicates the VLAN where the last MAC address seen on this interface

Command Mode

- /exec

show port-security interface

```
show port-security interface <interface-id> [ __readonly__ <config_port_security> <oper_port_security>
<port_status> <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>config_port_security</i>	(Optional) Port Security configuration is Enabled/Disabled
<i>oper_port_security</i>	(Optional) Port Security is Operationally Enabled/Disabled
<i>port_status</i>	(Optional) Secure Up/Down
<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 multivlan address

```
show port-security multivlan address [ __readonly__ { TABLE_eth_port_sec_multi_vlan <if_index> <vlan_id>
<max_sec_mac_addr_count> <cur_sec_mac_addr_count> } ]
```

Syntax Description

port-security	Show secure port information
address	Show secure address
multivlan	Show port security information for a particular vlan in a multivlan port
__readonly__	(Optional)
TABLE_eth_port_sec_multi_vlan	(Optional) Displays the secured MAC addresses
<i>if_index</i>	(Optional) Interface index
<i>vlan_id</i>	(Optional) vlan id
<i>max_sec_mac_addr_count</i>	(Optional) The maximum number of MAC addresses to be secured in the vlan
<i>cur_sec_mac_addr_count</i>	(Optional) Current number of MAC addresses secured in the VLAN

Command Mode

- /exec

show port-security secure address

```
show port-security secure address [ __readonly__ { TABLE_eth_port_sec_if_vlan_secure_mac_addr <if_index>
<mac_addr> <vlan_id> <mac_addr_type> <remain_age> } ]
```

Syntax Description

<code>port-security</code>	Show secure port information
<code>secure</code>	Show detail information about secure address
<code>address</code>	Show secure address
<code>__readonly__</code>	(Optional)
<code>TABLE_eth_port_sec_if_vlan_secure_mac_addr</code>	(Optional) Displays the secured MAC addresses
<code>if_index</code>	(Optional) Interface index
<code>mac_addr</code>	(Optional) mac address
<code>vlan_id</code>	(Optional) vlan id
<code>mac_addr_type</code>	(Optional) static/sticky/ MAC address
<code>remain_age</code>	(Optional) Remaining age

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-security traps enable

show port-security traps enable [__readonly__ { <snmp_traps_enable> }]

Syntax Description

port-security	Show secure port information
traps	Enable SNMP traps
enable	enable
__readonly__	(Optional)
<i>snmp_traps_enable</i>	(Optional) SNMP traps enable/disable

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

```
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 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
<i>__readonly__</i>	(Optional)
<i>TABLE_police</i>	(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

<i>show</i>	Show running system information
<i>power</i>	Power over Ethernet
<i>priority</i>	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

Syntax Description

show	Show running system information
privilege	Display privilege information

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
<i>__readonly__</i>	(Optional)
<i>TABLE_line_in_log_pid</i>	(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 clis

show processes memory clis [shared | private]

Syntax Description

show	Show running system information
processes	Display process information
memory	Display memory information
clis	
shared	(Optional) Display CLIS shared memory information
private	(Optional) Display CLIS private memory information

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
TABLE_processes_vdc	(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> <oneseq> <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>
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>oneseq</i>	(Optional) fivesec
<i>process</i>	(Optional) Name of process

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
TABLE_processes_vdc_log	(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_mallosed> ] } ]
```

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 processes version

show processes { version | threads } [<comp-string>] [__readonly__ TABLE_component <component-name> <version> <buildinfo> <sourceversion>]

Syntax Description

show	Show running system information
processes	Display process information
version	Display system release information
threads	Threads Info
<i>comp-string</i>	(Optional) Component name for detailed information
<i>__readonly__</i>	(Optional)
TABLE_component	(Optional)
<i>component-name</i>	(Optional)
<i>version</i>	(Optional)
<i>buildinfo</i>	(Optional)
<i>sourceversion</i>	(Optional)

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__ [ TABLE_ptp <ptp-ifindex> <state> ] <ptp-end> ]
```

Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>brief</code>	port states in brief
<code>__readonly__</code>	(Optional) Read Only
<code>TABLE_ptp</code>	(Optional) ptp table
<code>ptp-ifindex</code>	(Optional) ptp ifindex
<code>state</code>	(Optional) BMC state
<code>ptp-end</code>	(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>
<correction-threshold> <bs-status> ]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
clock	Set local clock attributes
<i>__readonly__</i>	(Optional) Read only
<i>domain-id</i>	(Optional) Domain Id
<i>clock-id</i>	(Optional) Clock Id
<i>priority1</i>	(Optional) Priority 1
<i>priority2</i>	(Optional) Priority 2
<i>num-ports</i>	(Optional) Number of PTP ports
<i>class</i>	(Optional) Class
<i>accuracy</i>	(Optional) Clock accuracy
<i>scaled-log-variance</i>	(Optional) scaled log variance
<i>offset-from-master</i>	(Optional) Offset from master
<i>mean-path-delay-to-master</i>	(Optional) mean path delay to master
<i>steps-removed</i>	(Optional) Steps removed
<i>correction-threshold</i>	(Optional) correction-threshold
<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

ptp	Precision Time Protocol (IEEE 1588) Subsystem
clock	Set local clock attributes
foreign-masters	foreign-masters
record	record
<i>if0</i>	(Optional)
<i>__readonly__</i>	(Optional) Read only
<i>TABLE_ptp</i>	(Optional) ptp table
<i>interface-name</i>	(Optional) interface name
<i>clock-id</i>	(Optional) Clock Id
<i>priority1</i>	(Optional) Priority 1
<i>priority2</i>	(Optional) Priority 2
<i>class</i>	(Optional) Class
<i>accuracy</i>	(Optional) Clock accuracy
<i>scaled-log-variance</i>	(Optional) scaled log variance
<i>steps-removed</i>	(Optional) Steps removed
<i>is-gm</i>	(Optional) Is Grandmaster
<i>ptp-end</i>	(Optional) End of table

Command Mode

- /exec

show ptp corrections

```
show ptp corrections [ __readonly__ [ TABLE_ptp <intf-name> <sup-time> <correction-val>
<mean-path-delay> ] <ptp-end> ]
```

Syntax Description

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>__readonly__</code>	(Optional) Read Only
<code>corrections</code>	Display last few corrections
<code>TABLE_ptp</code>	(Optional) ptp table
<code>intf-name</code>	(Optional) interface name
<code>sup-time</code>	(Optional) sup time
<code>correction-val</code>	(Optional) correction value
<code>ptp-end</code>	(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

<code>ptp</code>	Precision Time Protocol (IEEE 1588) Subsystem
<code>cost</code>	port costs
<code>if0</code>	(Optional)
<code>__readonly__</code>	(Optional) Read Only
<code>TABLE_ptp</code>	(Optional) ptp table
<code>ptp-ifindex</code>	(Optional) ptp ifindex
<code>cost</code>	(Optional) cost
<code>ptp-end</code>	(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	(Optional) Show detail
ipv4	(Optional) IP address for the stat info
<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

ptp	Precision Time Protocol (IEEE 1588) Subsystem
domain	ptp domain number
data	ptp domain data
__readonly__	(Optional) Read Only
TABLE_ptp	(Optional) ptp table
<i>multidom_cap</i>	(Optional) Multidomain state ENABLED/DISABLED
<i>gm_cap</i>	(Optional) GM state ENABLE/DISABLED
<i>gm_convergence_time</i>	(Optional) ptp grandmaster convergence time
<i>def_dom</i>	(Optional) ptp default domain
<i>transition_priority1</i>	(Optional) ptp multi-domain transition priority1
<i>transition_priority2</i>	(Optional) ptp multi-domain transition priority2
TABLE_ptp_domain	(Optional)
<i>domain_number</i>	(Optional) ptp domain number
<i>domain_priority</i>	(Optional) ptp domain priority
<i>ptp_clock_class_threshold</i>	(Optional) ptp domain class
<i>ptp_clock_accuracy_threshold</i>	(Optional) ptp domain accuracy
<i>ptp-ifindex</i>	(Optional) ptp ifindex
<i>ptp-end</i>	(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__ [ TABLE_ptp <intf-name> <sup-time> <pkt_dir> <pkt_type> <pkt_info>
] <ptp-header> <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>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-header</code>	(Optional) Start of table
<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>
]
```

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

Command Mode

- /exec

show ptp port interface

```
show ptp port interface <if0> [ __readonly__ <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> ]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
port	port
interface	Enter the port interface
<i>if0</i>	
<i>__readonly__</i>	(Optional) Read only
<i>intf-name</i>	(Optional) interface name
<i>clock-id</i>	(Optional) Port ID: Clock Id
<i>port-num</i>	(Optional) Port ID: port number
<i>version</i>	(Optional) version
<i>transport-mode</i>	(Optional) Transport mode
<i>accepted-ip</i>	(Optional) Accepted IPs
<i>state</i>	(Optional) BMC state
<i>vlan</i>	(Optional) Vlan
<i>delay-req-intv</i>	(Optional) log mean delay req interval
<i>ann-rx-tout</i>	(Optional) announce receipt timeout
<i>peer-mean-path-delay</i>	(Optional) peer mean path delay
<i>ann-intv</i>	(Optional) announce interval
<i>sync-intv</i>	(Optional) sync interval
<i>delay-mechanism</i>	(Optional) delay mechanism
<i>peer-delay-req-intv</i>	(Optional) peer delay req interval

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
<i>__readonly__</i>	(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 info, on page 1871](#)
- [show qos dcbxp interface, on page 1872](#)
- [show qos shared-policer, on page 1874](#)
- [show queuing, on page 1876](#)
- [show queuing pfc-queue, on page 1878](#)
- [show queuing pfc-queue snmp ifIndex, on page 1880](#)

show qos dcbxp incompatibility interface

```
show qos dcbxp incompatibility interface <iface-num> [ __readonly__ { <pfc> <mtu> <lpg> <rpg> <bw>
<lfcqe> <rfcqe> <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)
<i>pfc</i>	(Optional) pfc
<i>mtu</i>	(Optional) MTU Value
<i>lpg</i>	(Optional) Local Priority Grouping
<i>rpg</i>	(Optional) Remote Priority Grouping
<i>bw</i>	(Optional) CIN: bandwidth/priority
<i>lfcqe</i>	(Optional) local fcoe
<i>rfcqe</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__ { <intf> <pfc> <pfc> <pgr> <pgc> <mtur> <mtuc> <fcoer> <fcoec>
<iscsir> <iscsic> } ]
```

Syntax Description

show	Show running system information
dcbxp	DCBXP
info	information
__readonly__	(Optional)
<i>intf</i>	(Optional) Interface
<i>pfc</i>	(Optional) pfc recvd
<i>pfc</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 qos shared-policer

```
show qos shared-policer [ type qos1 ] [ <policer-name> ] [ __readonly__ { [ TABLE_policer <policer-name2>
[ <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_action
<action-key> [ <cnf-act> ] [ <exc-act> ] [ <vio-act> ] [ <set-type> ] [ <enum-spec> ] [ <set-val> ] [
<tmap-from> ] [ <tmap-to> ] [ <tmap-name> ] ] ] } ]
```

Syntax Description

show	Show running system information
shared-policer	Shared policer
type	(Optional) Type of shared policer
qos1	(Optional) type qos
<i>policer-name</i>	(Optional) Shared policer name
<i>__readonly__</i>	(Optional)
TABLE_policer	(Optional) all police xml sessions
<i>policer-name2</i>	(Optional) Policer Name
TABLE_action	(Optional) all police actions xml sessions
<i>action-key</i>	(Optional) Count
<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>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>bc-size-units</i>	(Optional) Units of size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>be-size-units</i>	(Optional) Units of size - pkts/bytes/kbytes/mbytes/ms/us/perc
<i>tmap-from</i>	(Optional)
<i>tmap-to</i>	(Optional)
<i>tmap-name</i>	(Optional) Table map name
<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

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
__readonly__	(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> <disable-action> <intf-multi> [ TABLE_queuing_interface <if_name_str> [
TABLE_qosgrp_stats <eq-qosgrp> [ 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> ] ] [ TABLE_qosgrp_stats_summary <qosgrp-summary> ] ] ]
```

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
TABLE_qosgrp_stats	(Optional) Qos-group egress statistics
<i>eq-qosgrp</i>	(Optional) Qos-group value

TABLE_qosgrp_stats_entry	(Optional) Qos-group egress statistics entry
<i>q-stat-type</i>	(Optional) Queue stat
TABLE_qosgrp_stats_summary	(Optional) Qos-group egress statistics summary
<i>qosgrp-summary</i>	(Optional) Qos-group summary value

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



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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 { <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

```
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 tacacs
<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 tacacs client
<i>timeout</i>	(Optional) Timeout for this tacacs 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 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 tacacs
<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 tacacs client
<i>timeout</i>	(Optional) Timeout for this tacacs 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 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	(Optional) Also show hidden resources
with-flags	(Optional) Also show resource flags
__readonly__	(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-alararm-str> <ev-desc-str> <ev-fir-cause> <last-fired> } ] [ TABLE_rmon_hcala { <hc-alararm-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-alararm-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-alararm-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
<i>arg3</i>	(Optional) Enter the role name
<i>__readonly__</i>	(Optional)
TABLE_role	(Optional)
<i>role_name</i>	(Optional)
<i>role_description</i>	(Optional)
<i>attribute_scope</i>	(Optional)
<i>permit_vsan</i>	(Optional)
<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 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__ <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)
<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-privilege

show routing-privilege

Syntax Description

show	Show running system information
routing-privilege	Display the current privilege level

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 ] } | { 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> ] [ <ifname> ] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [
<stale> ] [ <unres> ] [ <hidden> ] [ <stale-label> ] [ <ubest> ] [ <mbest> ] ] [ TABLE_summary <routes>
<paths> [ <mcast_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
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>ifname</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>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	(Optional) Display per-topology information
<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 event-history

```
show routing [ ip | ipv4 ] [ unicast ] [ internal ] event-history { statistics | msgs | { { add-route | cli | delete-route
| detail | dme | errors | general | ha | loop-detection | modify-route | notifications | recursive-next-hop | summary
| ufdm | ufdm-detail | ufdm-summary } [ filter [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ client
{ <client> | <protocol> } ] [ prefix-list <pfxlist-name> ] ] } }
```

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
internal	(Optional) Commands for internal use
event-history	Show routing event log
statistics	Show routing event log Statistics
msgs	Show routing message event log
add-route	Add route
cli	CLI
delete-route	Delete route
detail	Detail
dme	DME
errors	Errors
general	General
ha	HA
loop-detection	Loop detection
modify-route	Modify route
notifications	Notification
recursive-next-hop	Recursive next hop
summary	Summary
ufdm	UFDM

ufdm-detail	UFDM Detail
ufdm-summary	UFDM Summary
filter	(Optional) Filter event log
vrf	(Optional) Filter VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
vrf-all	(Optional) Filter for all VRFs
client	(Optional) Filter by client
<i>client</i>	(Optional) Filter by single urib client
<i>protocol</i>	(Optional) Filter by single urib client
prefix-list	(Optional) Filter by IPv4 prefix-list
<i>pxlist-name</i>	(Optional) IPv4 prefix list name

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> ] [ <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	(Optional) Display per-topology information
<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
module	(Optional) Module

<i>module-id</i>	(Optional) Module
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
TABLE_addrf	(Optional)
<i>addrf</i>	(Optional)
TABLE_hashpath	(Optional)
<i>mcast</i>	(Optional)
<i>hashpath</i>	(Optional)
<i>hash-val</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>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	(Optional) Display per-topology information
<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 ] } | { 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> ] [ <ifname> ] <uptime> <pref> <metric> <clientname> [ <type> ] [ <tag> ] [ <stale>
] [ <stalebl> ] [ <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	(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
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
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]
<i>until</i>	(Optional) Display those routes updated until this time
<i>utime</i>	(Optional) Until this date/time [[CC]YY-][MM-DD-]HH:MM[:SS]
<i>summary</i>	(Optional) Display route counts
<i>deleted</i>	(Optional) Display delete-pending routes also
<i>detail</i>	(Optional) Display routes in full detail
<i>__readonly__</i>	(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>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>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	(Optional) Display per-topology information
<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>plib_index</i>	(Optional)
<i>plib_state</i>	(Optional)
<i>plib_id</i>	(Optional)
<i>multicast_or_unicast_plib</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>plib_stale_time</i>	(Optional)
TABLE_nib_node	(Optional)
<i>u6ribtibtype_contextname</i>	(Optional)
<i>routes</i>	(Optional)
<i>rnhs</i>	(Optional)
TABLE_notiffee_mask	(Optional)
<i>u6plib_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_plib_u6plib_index</i>	(Optional)
TABLE_notiffee_nib	(Optional)
<i>notiffee_plib_u6plib_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 event-history

show routing ipv6 [unicast] [internal] event-history { statistics | msgs | am | cli | detail | errors | general | ha | lfe | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary }

Syntax Description

show	Show running system information
routing	Display routing information
ipv6	Display IPv6 information
unicast	(Optional) Display unicast information
internal	(Optional) Commands for internal use
event-history	Show routing event log
statistics	Show routing event log Statistics
msgs	Show routing message event log
am	AM
cli	CLI
detail	Detail
errors	Errors
general	General
ha	HA
lfe	LFE
recursive-next-hop	Recursive next hop
summary	Summary
ufdm	UFDM
ufdm-detail	UFDM Detail
ufdm-summary	UFDM Summary

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> <ucast-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	(Optional) Display per-topology information
<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	(Optional) Display per-topology information
<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 nexthop info

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] ipv6 [ unicast ] [ topology <topology-name> ] nexthop info [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ]
```

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	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
nexthop	Show the nh_info tree
info	Show the nh_info tree

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_nhlable <nhlabel-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	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
nhlfe	Display NHLFE db
stats	(Optional) Display statistics
<i>__readonly__</i>	(Optional)
TABLE_vrf	(Optional)
<i>vrf-name-out</i>	(Optional)
<i>nhlfe-owner</i>	(Optional)
<i>nhlfe-refcount</i>	(Optional)
TABLE_nhlable	(Optional)
<i>nhlabel-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	(Optional) Display per-topology information
<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> ] [
next-hops-v6 <nh6-count> ] ] [ 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
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
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 [ __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
<i>__readonly__</i>	(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 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	(Optional) Display per-topology information
<i>topology-name</i>	(Optional) topology name
nhlfe	Display URIB NHLFE db
stats	(Optional) Display statistics
__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	(Optional) Display per-topology information
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
<i>__readonly__</i>	(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 unresolved-next-hop

```
show routing [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ ip | ipv4 ] [ unicast ] [ topology
<topology-name> ] unresolved-next-hop { [ <ip-addr> [ detail ] ] | [ summary ] } [ vrf { <vrf-name> |
<vrf-known-name> | <vrf-all> } ]
```

Syntax Description

show	Show running system information
routing	Display routing information
unresolved-next-hop	Display unresolved next-hop list
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
<i>ip-addr</i>	(Optional) Display single unresolved next-hop
detail	(Optional) Display prefixes for unresolved next-hop
summary	(Optional) Show summary of resolve buffers

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 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 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 aclmgr active

show running-config aclmgr { active-if-config | all-if-config }

Syntax Description

show	Show running system information
running-config	Current operating configuration
aclmgr	show running config for aclmgr
active-if-config	show running config for active-policies
all-if-config	show running config for all-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 amt

show running-config amt [all]

Syntax Description

show	Show running system information
running-config	Current operationg configuration
amt	Display amt information
all	(Optional) Display running config with defaults clis

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 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 operationng 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 explicit

show running-config explicit

Syntax Description

show	Show running system information
running-config	Current operating configuration
explicit	show explicitly configured running configuration for all interfaces

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 glbp

show running-config glbp [all]

Syntax Description

show	Show running system information
running-config	Show the system running information
glbp	Show GLBP running configuration
all	(Optional) Show GLBP running configuration 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 hw_telemetry

show running-config hw_telemetry [all]

Syntax Description

running-config	Current operating configuration
hw_telemetry	show running config for hw_telemetry
all	(Optional) show running config with 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>] [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 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 defaults

show running-config interface <if0> defaults

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
defaults	show default running config

Command Mode

- /exec

show running-config interface explicit

show running-config interface <if0> explicit

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
explicit	show default running config

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 ipqos active

show running-config ipqos { active-if-config | all-if-config }

Syntax Description

show	Show running system information
running-config	Current operating configuration
active-if-config	show running config for active-policies
all-if-config	show running config for all-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 ldp

show running-config mpls ldp [all]

Syntax Description

show	Show running system information
running-config	Current operating configuration
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
all	(Optional) Display 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 netflow

show running-config { netflow | nfm } [all]

Syntax Description

show	Show running system information
running-config	Show running system information
netflow	Show NetFlow configuration
nfm	Show NFM configuration
all	(Optional) Show config with defaults

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 res_mgr

show running-config res_mgr

Syntax Description

show	Show running system information
running-config	Current operating configuration
res_mgr	Show resource configuration for VDC

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 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 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 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 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

Syntax Description

show	Show running system information
running-config	Current operating configuration
vlan	Vlan commands

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 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



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show scheduler config

```
show scheduler config [ __readonly__ [ <terminal> ] [ <feature> ] [ <logfilesize> ] [ <emailfrom> ] [ <emailreplyto> ] [ <smtpserver> ] [ <port> ] [ <usevrf> ] [ { TABLE_userconfig <username> [ <password> ] } ] [ { TABLE_jobconfig <jobdata> } ] [ { TABLE_scheduleconfig <schedulename> [ <scheduletype> ] [ { TABLE_jobs <status> } ] [ <email> ] } ] ] ]
```

Syntax Description

show	Show running system information
scheduler	Show scheduler config or data
config	Display scheduler config
__readonly__	(Optional)
<i>terminal</i>	(Optional) logfile terminal
<i>feature</i>	(Optional) name service
<i>logfilesize</i>	(Optional) logfilesize
<i>emailfrom</i>	(Optional) emailfrom
<i>emailreplyto</i>	(Optional) emailreplyto
<i>smtpserver</i>	(Optional) smtpserver
<i>port</i>	(Optional) port
<i>usevrf</i>	(Optional) usevrf
TABLE_userconfig	(Optional) userconfig
<i>username</i>	(Optional) username
<i>password</i>	(Optional) password
TABLE_jobconfig	(Optional) job configs
<i>jobdata</i>	(Optional) jobdata
TABLE_scheduleconfig	(Optional) schedule configs
<i>schedulename</i>	(Optional) schedulename
<i>scheduletype</i>	(Optional) scheduletype
TABLE_jobs	(Optional) jobs
<i>status</i>	(Optional) status
<i>email</i>	(Optional) email

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
<i>s0</i>	(Optional) Specify the job name
__readonly__	(Optional)
TABLE_schedulerjobs	(Optional) schedulerjobs
<i>jobname</i>	(Optional) job name
<i>jobdata</i>	(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
__readonly__	(Optional)
TABLE_joblog	(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	Display 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	Display segment-routing status info
clients	Display 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	Display segment-routing status info
ipv4	Display info for IPv4 address-family
connected-prefix-sid-map	Display 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-ip> <collector-vrf> <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-ip</i>	(Optional) Collector IP
<i>collector-vrf</i>	(Optional) Collector VRF
<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

<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-dhcp-relay drop statistics

```
show snmp-dhcp-relay drop statistics [ interface <intf> | ifindex <intf-in> ] [ __readonly__ {
TABLE-cdrDropStatsTable <intf-out> <relay_disable> <invalid_msg_type> <intf_err> <tx_sock_err>
<tx_fail_client_intf> <unknown_op_intf> <l3_unknown_op_intf> <max_hops> <opt82_fail> <malformed>
<untrusted_relay_intf> <mct_drop> } ]
```

Syntax Description

show	Show running system information
snmp-dhcp-relay	DHCP Relay
drop	Statistics related to DHCP drop statistics
statistics	Statistics related to DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
ifindex	(Optional) interface index value
<i>__readonly__</i>	(Optional) Read only
TABLE-cdrDropStatsTable	(Optional)
<i>intf-in</i>	(Optional) Interface Index
<i>intf-out</i>	(Optional) Table index
<i>relay_disable</i>	(Optional) relay was disabled
<i>invalid_msg_type</i>	(Optional) invalid message type
<i>intf_err</i>	(Optional) interface error
<i>tx_sock_err</i>	(Optional) failed to send at server
<i>tx_fail_client_intf</i>	(Optional) failed to send to client
<i>unknown_op_intf</i>	(Optional) unknown output interface
<i>l3_unknown_op_intf</i>	(Optional) unknown vrf or interface
<i>max_hops</i>	(Optional) max hops exceeded
<i>opt82_fail</i>	(Optional) Option82 validation failed
<i>malformed</i>	(Optional) malformed pkts
<i>untrusted_relay_intf</i>	(Optional) untrusted interface
<i>mct_drop</i>	(Optional) dropped on MCT

Command Mode

- /exec

show snmp-dhcp-relay statistics pkt

```
show snmp-dhcp-relay statistics { [ interface <intf> | ifindex <intf-in> ] pkt-type <type-in> } [ __readonly__
{ TABLE-cdrStatsTable <intf-out> <type-out> <rx_pkts> <tx_pkts> <drops> } ]
```

Syntax Description

show	Show running system information
snmp-dhcp-relay	DHCP Relay
statistics	Statistics related to DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
ifindex	(Optional) Interface Index Value
pkt-type	DHCP Packet type
<i>__readonly__</i>	(Optional) Read only
TABLE-cdrStatsTable	(Optional)
<i>intf-in</i>	(Optional) table index - ifindex
<i>intf-out</i>	(Optional) table index
<i>type-in</i>	table index - packet type
<i>type-out</i>	(Optional) table index
<i>rx_pkts</i>	(Optional) received pkt count
<i>tx_pkts</i>	(Optional) transmitted pkt count
<i>drops</i>	(Optional) dropped pkt count

Command Mode

- /exec

show snmp-ipv6-dhcp-relay drop statistics

```
show snmp-ipv6-dhcp-relay drop statistics [ interface <intf> | ifindex <intf-in> ] [ __readonly__ {
TABLE-cdrIpv6DropStatsTable <intf-out> <relay_disabled> <max_hops> <invalid_pkt> <unknown_op_intf>
<invalid_vrf> <opt_insert_failed> <dir_reply_frm_server> <ipv6_not_configured> <intf_err>
<vpn_option_disabled> <ipv6_ext_hdr_present> <mct_drop> } ]
```

Syntax Description

show	Show running system information
snmp-ipv6-dhcp-relay	IPv6 DHCP Relay
drop	Statistics related to IPv6 DHCP drop statistics
statistics	Statistics related to IPv6 DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
ifindex	(Optional) interface index value
<i>__readonly__</i>	(Optional) Read only
TABLE-cdrIpv6DropStatsTable	(Optional)
<i>intf-in</i>	(Optional) Interface Index
<i>intf-out</i>	(Optional) Table index
<i>relay_disabled</i>	(Optional) DHCPv6 Relay is disabled
<i>max_hops</i>	(Optional) Max hops exceeded
<i>invalid_pkt</i>	(Optional) Packet validation failed
<i>unknown_op_intf</i>	(Optional) Unknown output interface
<i>invalid_vrf</i>	(Optional) Invalid VRF
<i>opt_insert_failed</i>	(Optional) Option Insertion Failed
<i>dir_reply_frm_server</i>	(Optional) Direct Replies (Recnfg/Adv/Reply) from server
<i>ipv6_not_configured</i>	(Optional) IPv6 addr not configured
<i>intf_err</i>	(Optional) Interface error
<i>vpn_option_disabled</i>	(Optional) VPN Option Disabled
<i>ipv6_ext_hdr_present</i>	(Optional) IPv6 extn headers present
<i>mct_drop</i>	(Optional) DHCP request dropped on MCT

Command Mode

- /exec

show snmp-ipv6-dhcp-relay statistics pkt

```
show snmp-ipv6-dhcp-relay statistics { [ interface <intf> | ifindex <intf-in> ] pkt-type <type-in> } [
__readonly__ { TABLE-cdrIpv6StatsTable <intf-out> <type-out> <rx_pkts> <tx_pkts> <drops> } ]
```

Syntax Description

show	Show running system information
snmp-ipv6-dhcp-relay	IPv6 DHCP Relay
statistics	Statistics related to IPv6 DHCP
interface	(Optional) input interface
<i>intf</i>	(Optional) interface
ifindex	(Optional) Interface Index Value
pkt-type	DHCP Packet type
<i>__readonly__</i>	(Optional) Read only
TABLE-cdrIpv6StatsTable	(Optional)
<i>intf-in</i>	(Optional) table index - ifindex
<i>intf-out</i>	(Optional) table index
<i>type-in</i>	table index - packet type
<i>type-out</i>	(Optional) table index
<i>rx_pkts</i>	(Optional) received pkt count
<i>tx_pkts</i>	(Optional) transmitted pkt count
<i>drops</i>	(Optional) dropped pkt count

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 mib pimCandidateRPTable

```
show snmp mib pimCandidateRPTable [ <pimCandidateRPGroupAddress-in> ] [
<pimCandidateRPGroupMask-in> ] [ __readonly__ TABLE_pimCandidateRPTable
<pimCandidateRPGroupAddress-out> <pimCandidateRPGroupMask-out> <pimCandidateRPAAddress>
<pimCandidateRPRowStatus> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimCandidateRPTable	show mib table pimCandidateRPTable
<i>pimCandidateRPGroupAddress-in</i>	(Optional) pimCandidateRPGroupAddress
<i>pimCandidateRPGroupMask-in</i>	(Optional) pimCandidateRPGroupMask
<i>__readonly__</i>	(Optional)
TABLE_pimCandidateRPTable	(Optional)
<i>pimCandidateRPGroupAddress-out</i>	(Optional) mib table index pimCandidateRPGroupAddress
<i>pimCandidateRPGroupMask-out</i>	(Optional) mib table index pimCandidateRPGroupMask
<i>pimCandidateRPAAddress</i>	(Optional) mib object pimCandidateRPAAddress
<i>pimCandidateRPRowStatus</i>	(Optional) mib object pimCandidateRPRowStatus

Command Mode

- /exec

show snmp mib pimComponentTable

```
show snmp mib pimComponentTable [ <pimComponentIndex-in> ] [ __readonly__
TABLE_pimComponentTable <pimComponentIndex-out> <pimComponentBSRAddress>
<pimComponentBSRExpiryTime> <pimComponentCRPHoldTime> <pimComponentStatus> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimComponentTable	show mib table pimComponentTable
<i>pimComponentIndex-in</i>	(Optional) pimComponentIndex
<i>__readonly__</i>	(Optional)
TABLE_pimComponentTable	(Optional)
<i>pimComponentIndex-out</i>	(Optional) mib table index pimComponentIndex
<i>pimComponentBSRAddress</i>	(Optional) mib object pimComponentBSRAddress
<i>pimComponentBSRExpiryTime</i>	(Optional) mib object pimComponentBSRExpiryTime
<i>pimComponentCRPHoldTime</i>	(Optional) mib object pimComponentCRPHoldTime
<i>pimComponentStatus</i>	(Optional) mib object pimComponentStatus

Command Mode

- /exec

show snmp mib pimInterfaceTable

```
show snmp mib pimInterfaceTable [ <pimInterfaceIfIndex-in> ] [ __readonly__ TABLE_pimInterfaceTable
<pimInterfaceIfIndex-out> <pimInterfaceAddress> <pimInterfaceNetMask> <pimInterfaceMode>
<pimInterfaceDR> <pimInterfaceHelloInterval> <pimInterfaceStatus> <pimInterfaceJoinPruneInterval>
<pimInterfaceCBSRPreference> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimInterfaceTable	show mib table pimInterfaceTable
<i>pimInterfaceIfIndex-in</i>	(Optional) pimInterfaceIndex
<i>__readonly__</i>	(Optional)
<i>TABLE_pimInterfaceTable</i>	(Optional)
<i>pimInterfaceIfIndex-out</i>	(Optional) mib table index pimInterfaceIfIndex
<i>pimInterfaceAddress</i>	(Optional) mib object pimInterfaceAddress
<i>pimInterfaceNetMask</i>	(Optional) mib object pimInterfaceNetMask
<i>pimInterfaceMode</i>	(Optional) mib object pimInterfaceMode
<i>pimInterfaceDR</i>	(Optional) mib object pimInterfaceDR
<i>pimInterfaceHelloInterval</i>	(Optional) mib object pimInterfaceHelloInterval
<i>pimInterfaceStatus</i>	(Optional) mib object pimInterfaceStatus
<i>pimInterfaceJoinPruneInterval</i>	(Optional) mib object pimInterfaceJoinPruneInterval
<i>pimInterfaceCBSRPreference</i>	(Optional) mib object pimInterfaceCBSRPreference

Command Mode

- /exec

show snmp mib pimIpMRouteNextHopTable

```
show snmp mib pimIpMRouteNextHopTable [ <ipMRouteNextHopGroup-in> <ipMRouteNextHopSource-in>
<ipMRouteNextHopSourceMask-in> <ipMRouteNextHopIfIndex-in> <ipMRouteNextHopAddress-in> ] [
__readonly__ TABLE_pimIpMRouteNextHopTable <ipMRouteNextHopGroup-out>
<ipMRouteNextHopSource-out> <ipMRouteNextHopSourceMask-out> <ipMRouteNextHopIfIndex-out>
<ipMRouteNextHopAddress-out> <pimIpMRouteNextHopPruneReason> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimIpMRouteNextHopTable	show mib table pimIpMRouteNextHopTable
<i>ipMRouteNextHopGroup-in</i>	(Optional) ipMRouteNextHopGroup
<i>ipMRouteNextHopSource-in</i>	(Optional) ipMRouteNextHopSource
<i>ipMRouteNextHopSourceMask-in</i>	(Optional) ipMRouteNextHopSourceMask
<i>ipMRouteNextHopIfIndex-in</i>	(Optional) ipMRouteNextHopIfIndex
<i>ipMRouteNextHopAddress-in</i>	(Optional) ipMRouteNextHopAddress
<i>__readonly__</i>	(Optional)
<i>TABLE_pimIpMRouteNextHopTable</i>	(Optional)
<i>ipMRouteNextHopGroup-out</i>	(Optional) mib table index ipMRouteNextHopGroup
<i>ipMRouteNextHopSource-out</i>	(Optional) mib table index pimComponentBSRAAddress
<i>ipMRouteNextHopSourceMask-out</i>	(Optional) mib table index pimComponentBSRExpiryTime
<i>ipMRouteNextHopIfIndex-out</i>	(Optional) mib table index pimComponentCRPHoldTime
<i>ipMRouteNextHopAddress-out</i>	(Optional) mib table index pimComponentStatus
<i>pimIpMRouteNextHopPruneReason</i>	(Optional) mib object pimIpMRouteNextHopPruneReason

Command Mode

- /exec

show snmp mib pimIpMRouteTable

```
show snmp mib pimIpMRouteTable [ <ipMRouteGroup-in> ] [ <ipMRouteSource-in> ] [
<ipMRouteSourceMask-in> ] [ __readonly__ TABLE_pimIpMRouteTable <ipMRouteGroup-out>
<ipMRouteSource-out> <ipMRouteSourceMask-out> <pimIpMRouteUpstreamAssertTimer>
<pimIpMRouteAssertMetric> <pimIpMRouteAssertMetricPref> <pimIpMRouteAssertRPTBit>
<pimIpMRouteFlags> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimIpMRouteTable	show mib table pimIpMRouteTable
<i>ipMRouteGroup-in</i>	(Optional) ipMRouteGroup
<i>ipMRouteSource-in</i>	(Optional) ipMRouteSource
<i>ipMRouteSourceMask-in</i>	(Optional) ipMRouteSourceMask
<i>__readonly__</i>	(Optional)
TABLE_pimIpMRouteTable	(Optional)
<i>ipMRouteGroup-out</i>	(Optional) mib table index ipMRouteGroup-out
<i>ipMRouteSource-out</i>	(Optional) mib table index ipMRouteSource-out
<i>ipMRouteSourceMask-out</i>	(Optional) mib table index ipMRouteSourceMask-out
<i>pimIpMRouteUpstreamAssertTimer</i>	(Optional) mib object pimIpMRouteUpstreamAssertTimer
<i>pimIpMRouteAssertMetric</i>	(Optional) mib object pimIpMRouteAssertMetric
<i>pimIpMRouteAssertMetricPref</i>	(Optional) mib object pimIpMRouteAssertMetricPref
<i>pimIpMRouteAssertRPTBit</i>	(Optional) mib object pimIpMRouteAssertRPTBit
<i>pimIpMRouteFlags</i>	(Optional) mib object pimIpMRouteFlags

Command Mode

- /exec

show snmp mib pimJoinPruneInterval

```
show snmp mib pimJoinPruneInterval [ __readonly__ <pimJoinPruneInterval> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimJoinPruneInterval	show mib scalar pimJoinPruneInterval
__readonly__	(Optional) Read Only
<i>pimJoinPruneInterval</i>	(Optional) mib object pimJoinPruneInterval

Command Mode

- /exec

show snmp mib pimNeighborTable

```
show snmp mib pimNeighborTable [ <pimNeighborAddress-in> ] [ __readonly__ TABLE_pimNeighborTable
<pimNeighborAddress-out> <pimNeighborIfIndex> <pimNeighborUpTime> <pimNeighborExpiryTime> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimNeighborTable	show mib table pimNeighborTable
<i>pimNeighborAddress-in</i>	(Optional) pimNeighborAddress
<i>__readonly__</i>	(Optional)
<i>TABLE_pimNeighborTable</i>	(Optional)
<i>pimNeighborAddress-out</i>	(Optional) mib table index pimNeighborAddress
<i>pimNeighborIfIndex</i>	(Optional) mib object pimNeighborIfIndex
<i>pimNeighborUpTime</i>	(Optional) mib object pimNeighborUpTime
<i>pimNeighborExpiryTime</i>	(Optional) mib object pimNeighborExpiryTime

Command Mode

- /exec

show snmp mib pimRPSetTable

```
show snmp mib pimRPSetTable [ <pimRPSetComponent-in> ] [ <pimRPSetGroupAddress-in> ] [
<pimRPSetGroupMask-in> ] [ <pimRPSetAddress-in> ] [ __readonly__ TABLE_pimRPSetTable
<pimRPSetGroupAddress-out> <pimRPSetGroupMask-out> <pimRPSetAddress-out> <pimRPSetHoldTime>
<pimRPSetExpiryTime> <pimRPSetComponent-out> ]
```

Syntax Description

show	Show running system information
snmp	show snmp
mib	show mib tables
pimRPSetTable	show mib table pimRPSetTable
<i>pimRPSetComponent-in</i>	(Optional) pimRPSetComponent
<i>pimRPSetGroupAddress-in</i>	(Optional) pimRPSetGroupAddress
<i>pimRPSetGroupMask-in</i>	(Optional) pimRPSetGroupMask
<i>pimRPSetAddress-in</i>	(Optional) pimRPSetAddress
<i>__readonly__</i>	(Optional)
TABLE_pimRPSetTable	(Optional)
<i>pimRPSetGroupAddress-out</i>	(Optional) mib table index pimRPSetGroupAddress
<i>pimRPSetGroupMask-out</i>	(Optional) mib table index pimRPSetGroupMask
<i>pimRPSetAddress-out</i>	(Optional) mib table index pimRPSetAddress
<i>pimRPSetHoldTime</i>	(Optional) mib object pimRPSetHoldTime
<i>pimRPSetExpiryTime</i>	(Optional) mib object pimRPSetExpiryTime
<i>pimRPSetComponent-out</i>	(Optional) mib table index pimRPSetComponent

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
<i>__readonly__</i>	(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 pss

show snmp pss

Syntax Description

show	Show running system information
snmp	show snmp information
pss	show SNMP pss

Command Mode

- /exec

show snmp roleddebug

show snmp roleddebug

Syntax Description

show	Show running system information
snmp	show snmp information
roleddebug	show SNMP roleddebug

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 snmpv3stats

show snmp snmpv3stats

Syntax Description

show	Show running system information
snmp	show snmp information
snmpv3stats	show SNMP snmpdebug

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> [
{ TABLE_groups <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
<code>__readonly__</code>	(Optional) Read Only
TABLE_snmp_users	(Optional) table displays the snmp users
TABLE_groups	(Optional) table displays the groups for specific user
<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 buffers

```
show sockets buffers [ { [ all <count> ] [ free <count> ] } ]
```

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
buffers	Display detailed buffer statistics
all	(Optional) Dump buffers from ALL list
free	(Optional) Dump buffers from FREE list
<i>count</i>	(Optional) Number of buffers to dump

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> ] [ <recvmmsg-dispatch> ] [ <recv-dis-nblock> ] [ <recvmmsg-call> ] [
<brcv-dispatch> ] [ <fsmmsg-calls> ] [ <sendmsg-dispatch> ] [ <sendmsg-calls> ] [ <msndmsg-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> ] [ <recvmmsg-err> ] [
<brcvmmsg-err> ] [ <fsmmsg-err> ] [ <sendmsg-err> ] [ <msndmsg-err> ] [ <select-err> ] [ <sel-nomem-err>
] [ <shut-err> ] [ <close-err> ] [ <fcntl-err> ] [ <ioctl-err> ] [ <setsock-err> ] [ <getsock-err> ] [ <getsockname-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> ] [
<pseud-no-soc-err> ] [ <pseud-inval-iov> ] [ <pseud-getsoc-err> ] [ <pseud-msg-ctrl-err> ] [
<pseud-sockarg-err> ] [ <pseud-pru-sosend> ] [ <precv-nosock-err> ] [ <precv-inval-iovlen> ] [
<precv-pru-sorecv> ] [ <precv-cp-msg-err> ] [ <precv-cp-msg-nlen> ] [ <precv-cp-data-err> ] [
<pbrcv-rcvmmsg-err> ] [ <pshut-no-soc-err> ] [ <psetsock-val-err> ] [ <psetsock-inv-val> ] [ <psetsoc-no-soc-err>
] [ <psetsoc-sosetopt> ] [ <pgetsock-no-socerr> ] [ <pgetsock-cp-err> ] [ <pgetsock-val-err> ] [ <pgetsock-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-soc-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-inval-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-inval-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>fi-tcp-wblock</i>	(Optional) fast tcp send would block error
<i>fi-send-p-sndmsg</i>	(Optional) fast tcp send p_sendmsg errors
<i>fi-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_vrf <vrf-name-out> TABLE_afi <afi> TABLE_conn <prot> <tcp-state> <rcv-count> <laddr> <lport> <faddr> <fport> <intf> <rcv-count> <snd-count> <type> <ttl> <tos> <options> <state> <iss> <snd-una> <snd-nxt> <snd_wnd> <irs> <rcv-nxt> <rcv-wnd> <snd-cwnd> <srtt> <rtt> <rttvar> <krtt> <rttmin> <mss> <dur> <flags> <md5-ent> <md5-host> <md5-err> <rcv-hiwait> <rcv-lowat> <rcv-flags> <snd-hiwait> <snd-lowat> <snd-flags> <tcp-count> <udp-count> <raw-count> ]
```

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	(Optional) Display md5 key specific details
__readonly__	(Optional)
TABLE_vrf	(Optional) vrf table
<i>vrf-name-out</i>	(Optional) vrf name out
TABLE_afi	(Optional) afi table
<i>afi</i>	(Optional) afi id
TABLE_conn	(Optional) connection table
<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 conection 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>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>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-hiwater</i>	(Optional) socket connection receive hiwater
<i>rcv-lowat</i>	(Optional) socket connection receive lowat
<i>rcv-flags</i>	(Optional) socket connection receive flags
<i>snd-hiwater</i>	(Optional) socket connection send hiwater
<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 keychain-dump

show sockets keychain-dump

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
keychain-dump	Dump the pss information for keychains

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> ]
```

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
local-port-range	Display local port range
<i>__readonly__</i>	(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

Command Mode

- /exec

show sockets performance

show sockets performance [clear]

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
performance	Display detailed perf statistics
clear	(Optional) Clear perf statistics

Command Mode

- /exec

show sockets secure-lxc

show sockets secure-lxc

Syntax Description

show	Show running system information
sockets	Display sockets status and configuration
secure-lxc	Display secure-container sockets information

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-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-recvd> ] [ <rx-pkt-too-short> ] [ <rx-sin-finest> ] [ <rx-black-hole-syn>
] [ <rx-black-hole> ] [ <rx-drop-no-inpcb> ] [ <rx-drop-notcpcb> ] [ <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-ccsent> ] [ <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>
] [ <closed> ] [ <dropped> ] [ <emb-dropped> ] [ <tx-rxmt-timeout> ] [ <tx-rxmt-timeout-dropped> ] [
<tx-ka-timeout> ] [ <tx-ka-probe> ] [ <tx-ka-drop> ] [ <gen-seg-timed> ] [ <gen-rtt-updated> ] [ <gen-delack>
] [ <gen-persist-timeout> ] [ <gen-paws-drop> ] [ <gen-predack> ] [ <gen-predat> ] [ <gen-pcb-cachemiss>
] [ <gen-cache-drtt> ] [ <gen-cache-drttvar> ] [ <gen-cached-ssthresh> ] [ <gen-usedrtt> ] [ <gen-usedrttvar>
] [ <gen-usedssthresh> ] [ <gen-persistdrop> ] [ <gen-badsyn> ] [ <gen-mturesent> ] [ <gen-list-endrop> ] [
<gen-rpm-bind-synsock> ] [ <gen-rpm-bindsynadd> ] [ <gen-rpm-bindlookup> ] [ <gen-rpm-bindsetsock>
] [ <gen-rpm-unbind-getpass> ] [ <gen-rpm-unbinduser1> ] [ <gen-rpm-unbinduser2> ] [
<gen-rpm-unbindrollover> ] [ <gen-rpm-unbind-synfree> ] [ <gen-rpm-unbind-tpfree> ] [ <syn-sc-added> ]
[ <syn-retransmitted> ] [ <syn-dupsyn> ] [ <syn-dropped> ] [ <syn-completed> ] [ <syn-bucket-overflow> ]
[ <syn-cache-overflow> ] [ <syn-sc-reset> ] [ <syn-sc-stale> ] [ <syn-sc-aborted> ] [ <syn-sc-badack> ] [
<syn-sc-unreach> ] [ <syn-sc-zonefail> ] [ <syn-sc-sendcookie> ] [ <syn-sc-recvcookie> ] [ <syn-sc-crosshits>
] [ <syn-sc-supsyncrosshits> ] [ <syn-sc-removecrosshits> ] [ <udp-rx-total> ] [ <udp-rx-bad-csum> ] [
<udp-rx-no-csum> ] [ <udp-rx-too-short> ] [ <udp-rx-bad-len> ] [ <udp-rx-no-port> ] [ <udp-rx-no-port-bcast>
] [ <udp-rx-no-port-mcast> ] [ <udp-rx-full-socket-drop> ] [ <udp-tx-total> ] [ <raw-rx-version> ] [
<raw-rx-rcvd> ] [ <raw-rx-no-port> ] [ <raw-rx-full-socket-drop> ] [ <raw-tx-sent> ] [ <inpcb-tot-alloc> ] [
<inpcb-tot-bind> ] [ <inpcb-tot-laddr> ] [ <inpcb-tot-connect> ] [ <inpcb-tot-disconnect> ] [ <inpcb-tot-detach>
] [ <inpcb-tot-detach-noinc> ] [ <inpcb-tot-detach-rort> ] [ <inpcb-tot-rtfree> ] [ <inpcb-tot-setsock-addr> ]
[ <inpcb-tot-setpeeraddr> ] [ <inpcb-tot-notify> ] [ <inpcb-tot-lookup-npacli-deny> ] [
<inpcb-tot-lookup-npacli-allow> ] [ <inpcb-tot-inshash-ipv4> ] [ <inpcb-tot-inshash-ipv6> ] [
<inpcb-tot-brehash-ipv4> ] [ <inpcb-tot-brehash-ipv6> ] [ <inpcb-tot-bremhash> ] [ <inpcb-err-allocnomem>
] [ <inpcb-err-bindeinavl> ] [ <inpcb-err-eaddrinuse> ] [ <inpcb-err-eagain> ] [ <inpcb-err-eagain2> ] [
<inpcb-err-eaddrnotavail> ] [ <inpcb-err-eafnosupport> ] [ <inpcb-err-enomem> ] [ <inpcb-err-ehostunreach>
] [ <inpcb-err-laddr-enixio> ] [ <inpcb-err-laddr-ehostunreach2> ] [ <inpcb-err-connectladdr> ] [
<inpcb-err-connect-eaddrinuse> ] [ <inpcb-err-connbind> ] [ <inpcb-err-sockaddrnomem> ] [
<inpcb-err-sockaddrreconnreset> ] [ <inpcb-err-peeraddr-enomem> ] [ <inpcb-err-econnrest> ] [
<inpcb-err-respond-enobufs> ] [ <inpcb-err-binshash-enobufs> ] [ <in6pcb-tot-setport> ] [ <in6pcb-tot-bind>
] [ <in6pcb-tot-laddr> ] [ <in6pcb-tot-connect> ] [ <in6pcb-tot-disconnect> ] [ <in6pcb-tot-detach> ] [
<in6pcb-tot-sockaddr> ] [ <in6pcb-tot-peeraddr> ] [ <in6pcb-tot-notify> ] [ <in6pcb-tot-lookuplocal> ] [
<in6pcb-tot-hashnpacli-deny> ] [ <in6pcb-err-setporteagain> ] [ <in6pcb-err-setporteagain2> ] [
<in6pcb-err-seteagain3> ] [ <in6pcb-bind-eafnosupport> ] [ <in6pcb-err-bindeaddrinuse> ] [
<in6pcb-err-bindeaddrinuse2> ] [ <in6pcb-err-bindeaddrinuse3> ] [ <in6pcb-err-bindeaddrinuse4> ] [
<in6pcb-err-bindsetport> ] [ <in6pcb-err-bindeagain> ] [ <in6pcb-err-laddr-eafnosupport> ] [
<in6pcb-err-eaddrnotavail> ] [ <in6pcb-err-laddr-enomem> ] [ <in6pcb-err-laddr-ehostreach> ] [

```

```
<in6pcb-err-laddr-ehostunreach2> ] [ <in6pcb-err-laddr-ehostunreach3> ] [ <in6pcb-err-laddr-ehostunreach4>
] [ <in6pcb-err-laddr-enxio> ] [ <in6pcb-err-connladdr> ] [ <in6pcb-err-conneaddrinuse> ] [
<in6pcb-err-connbind> ] [ <in6pcb-err-sockaddr-enomem> ] [ <in6pcb-err-v4maps-enomem> ] [
<in6pcb-err-setsock-noinp> ] [ <in6pcb-err-setpeer-noinp> ] [ <in6pcb-err-sockaddr-noinp> ] [
<in6pcb-err-peeraddr-noinp> ] [ <in6pcb-err-notify-einavl> ] [ <in6pcb-err-ctloutput-nosoopt> ] } ] ]
```

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-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-enixio</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 egress available error
<i>in6pcb-err-ctloutput-nosopt</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)
<i>TABLE_keychain</i>	(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>bpdus_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)
<i>TABLE_tree</i>	(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> ] 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
__readonly__	(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 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> <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> ] [ <prest>
] ] } | { 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> <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> ] [ <prest> ] ] } }
```

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 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)
TABLE_topology	(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)
TABLE_BA_ports	(Optional)
<i>port_name</i>	(Optional)
TABLE_non_edge_ports	(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> { 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
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> <prest> [
<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> <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
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
__readonly__	(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 ssh key

```
show ssh key [ { dsa [ md5 ] | rsa [ md5 ] | [ 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
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 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 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 amt

show startup-config amt [all]

Syntax Description

show	Show running system information
startup-config	Current startup configuration
amt	Display amt 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 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 startup-cfg
startup-config	show startup system information
catena	catena instances

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 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 hw_telemetry

show startup-config hw_telemetry [all]

Syntax Description

startup-config	Current startup configuration
hw_telemetry	show startup config for hw_telemetry
all	(Optional) show running config with defaults

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 ldp

show startup-config mpls ldp [all]

Syntax Description

show	Show running system information
startup-config	Current operating configuration
mpls	Display MPLS status and configuration
ldp	Label Distribution Protocol
all	(Optional) Display running-config with defaults

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 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

startup-config	Current startup configuration
ptp	show startup config for ptp
all	(Optional) show running config 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 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 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

startup-config	Current startup configuration
sflow	show startup config for sflow
all	(Optional) show running config with defaults

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 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 uddl

show startup-config uddl

Syntax Description

show	Show running system information
startup-config	Current startup configuration
uddl	Show uddl 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 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 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 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> <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)
<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>]

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

Command Mode

- /exec

show switching-mode fabric-speed

show switching-mode fabric-speed [*__readonly__* TABLE_switching_mode <switching-mode-desc>]

Syntax Description

show	Show running system information
switching-mode	Show the operating switching mode
<i>__readonly__</i>	(Optional)
TABLE_switching_mode	(Optional) the xml switching_mode configuration
<i>switching-mode-desc</i>	(Optional) switching mode description
fabric-speed	Show the fabric speed

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
__readonly__	(Optional)
<i>result</i>	(Optional) show tech collection enable status

Command Mode

- /exec

show system clis event-history

show system [internal] clis event-history { nvdb | client | errors | parser | ha | cli | objstr | objstr-errors }

Syntax Description

show	Display output
system	System-related show commands
internal	(Optional) Commands for internal use
clis	cli server
event-history	Event history logs for clis
nvdb	Log of NVDB and PSS events
client	Log of client interaction events
errors	Log of errors
parser	Log of parser events
ha	Log of ha events
cli	Log of command events
objstr	Log of Object Store events
objstr-errors	Log of Object Store error events

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
<i>__readonly__</i>	(Optional)
<i>TABLE_reload_pending</i>	(Optional) reload pending commands list
<i>cmds_list</i>	(Optional) <i>cmds_list</i>

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 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
<i>__readonly__</i>	(Optional) Read Only
<i>timer_val</i>	(Optional) XML attribute for timer value

Command Mode

- /exec

show system inband queuing statistics

```
show system inband queuing statistics [ __readonly__ { TABLE_sys_inband_queue_stats <inbandpktunmap>
<inbandpktbpduqueue> <inbandpktmapq0> <inbandpktmapq1> <klmpktmapbpdu> <klmpktmaparp>
<klmpktmapq0> <klmpktmapq1> <klmpktmapveobc> <queuename> [ TABLE_bpdu_stats { <pmrcvpkts>
<pmdroppkts> <pmcongested> <rcvbuf> <sndbuf> <pmnodrop> } ] [ TABLE_q_stats { <indexstat>
<ipmrcvpkts> <ipmdroppkts> <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>inbandpktbpduqueue</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>queuename</i>	(Optional) Inband queue name
TABLE_bpdu_stats	(Optional) BPDU Statistics
<i>pmrcvpkts</i>	(Optional) BPDU Receive Packets
<i>pmdroppkts</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>ipmnooproduct</i>	(Optional) Queue no drop

Command Mode

- /exec

show system inband queuing status

```
show system inband queuing status [ __readonly__ [ { TABLE_sys_inband_queue_status <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>pminbandweigh0</i>	(Optional) BPDU Weight
<i>pminbandweigh1</i>	(Optional) Q0 Weight
<i>pminbandweigh2</i>	(Optional) Q1 Weight

Command Mode

- /exec

show system kgdb

show system kgdb

Syntax Description

show	Show running system information
system	System-related show commands
kgdb	Displays state of kgdb_enable flag

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-enble 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 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
__readonly__	(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 vdc
<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 [ __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

```
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)
TABLE_xbarreason	(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 <i0>

Syntax Description

show	Show running system information
system	System-related show commands
resources	Show system resources
<i>i0</i>	time interval in seconds

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

<i>show</i>	Show running system information
<i>system</i>	System-related show commands
<i>resources</i>	Show system resources
<i>__readonly__</i>	(Optional)
<i>TABLE_cpu_usage</i>	(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 module

show system resources [*<i0>*] module *<module>*

Syntax Description

show	Show running system information
system	System-related show commands
resources	Show system resources
<i>i0</i>	(Optional) time interval in seconds
module	Show system resources for specified module
<i>module</i>	module number

Command Mode

- /exec

show system resources module all

```
show system resources [ <i0> ] module all [ __readonly__ { TABLE_cpuinfo <sts_msg1> <str1> <cpu_module>
<cpu_5sec> <cpu_1min> <cpu_5min> } { TABLE_meminfo <sts_msg2> <str2> <mem_module> <mem_total>
<mem_used> <mem_free> <mem_total> } ]
```

Syntax Description

show	Show running system information
system	System-related show commands
resources	Show system resources
<i>i0</i>	(Optional) time interval in seconds
module	Show system resources for specified module
all	Show system resources for all modules
__readonly__	(Optional)
TABLE_cpuinfo	(Optional)
<i>sts_msg1</i>	(Optional)
<i>str1</i>	(Optional)
<i>cpu_module</i>	(Optional)
<i>cpu_5sec</i>	(Optional)
<i>cpu_1min</i>	(Optional)
<i>cpu_5min</i>	(Optional)
TABLE_meminfo	(Optional)
<i>sts_msg2</i>	(Optional)
<i>str2</i>	(Optional)
<i>mem_module</i>	(Optional)
<i>mem_total</i>	(Optional)
<i>mem_used</i>	(Optional)
<i>mem_free</i>	(Optional)
<i>mem_total</i>	(Optional)

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 srg

show system srg

Syntax Description

show	Show running system information
system	System-related show commands
srg	Displays the system SRG

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
__readonly__	(Optional)
<i>op_mode</i>	(Optional) Operational Mode

Command Mode

- /exec

show system switchover impact

```
show system switchover impact [ <uri0> [ <uri1> ] ]
```

Syntax Description

show	Show running system information
system	System-related show commands
switchover	Show the software switchover impact between two images
impact	impact {standby_system_uri} {active_system_uri}
<i>uri0</i>	(Optional) Enter standby URI
<i>uri1</i>	(Optional) Enter active URI

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



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show table-map

```
show table-map [ <tmap-name> | <default-tmap-enum-name> ] [ __readonly__ { [ TABLE_tmap <tmap-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_tmap	(Optional) all tmap xml sessions
<i>tmap-name</i>	(Optional) Show a particular table map
<i>default-tmap-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 { <host0> } [ __readonly__ { <host1> } ] [ <tac_port> ] [ <tac_shared_key> ] [ <time_out> ] [ <tac_idle_time> ] [ <test_user_name> ] <test_pwd> ]
```

Syntax Description

show	Show running system information
tacacs-server	Show TACACS+ configuration information
<i>host0</i>	DNS name or IP address
<i>__readonly__</i>	(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>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

```
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 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
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
autho_statistics	(Optional) Authorization 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>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_timeout</i>	(Optional) Authorization: Requests timeout
<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_timeout</i>	(Optional) Accounting: Requests timeout
<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	(Optional) Do not check for standby being present

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-binary

show tech-support all-binary

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
all-binary	Dump tech support for all applications in binary

Command Mode

- /exec

show tech-support all

show tech-support all

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
all	Gather detailed information for troubleshooting

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 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 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]

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

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 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 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 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 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 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 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 hw_telemetry

show tech-support hw_telemetry

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
hw_telemetry	HW TELEMETRY Information

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 ip rsvp

show tech-support ip rsvp [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
ip	Configure IP features
rsvp	RSVP 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 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 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 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	(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)
<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	(Optional) Slot number
<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	(Optional) Slot number
<i>module</i>	(Optional) Module Number

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 ldp

show tech-support mpls ldp [brief]

Syntax Description

show	Show running system information
tech-support	Gather information for troubleshooting
mpls	Display MPLS status and configuration
ldp	Display LDP configuration and status for troubleshooting
brief	(Optional) Brief information

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 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

Syntax Description

show	Show running system information
tech-support	Gather information for trouble-shooting
nbm	Non Blocking Multicast

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 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 user

show tech-support object-store user <username>

Syntax Description

show	Show Object Store
tech-support	Gather information for troubleshooting
object-store	Gather information from object store for Controller troubleshooting
user	nxapi username
<i>username</i>	nxapi username

Command Mode

- /exec

show tech-support onep

show tech-support onep

Syntax Description

show	Show running system information
tech-support	Diagnostic information for technical support
onep	One Platform

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 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	(Optional) Do not check for standby being present

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 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 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 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 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 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 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 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 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 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 for PD VxLAN component
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> } ] [ <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
<i>sensor_grp_db_size</i>	(Optional) Sensor group DB size
<i>snsr_grp_row_idx</i>	(Optional) Sensor Group Row Idx
<i>snsr_grp_id</i>	(Optional) Sensor Group Id
<i>snsr_grp_type</i>	(Optional) Sensor Group Type
<i>snsr_grp_collector_type</i>	(Optional) Sensor Group Collector Type
<i>snsr_grp_timer_interval</i>	(Optional) Sensor Group Timer Interval in ms
<i>snsr_grp_timer_status</i>	(Optional) Sensor Group Timer Status
<i>snsr_grp_sub_count</i>	(Optional) Sensor Group Sub Count
<i>snsr_grp_sub_id</i>	(Optional) Sensor Group Sub Id
<i>snsr_grp_dc_cur_time</i>	(Optional) Sensor Group Data collection Current Time
<i>snsr_grp_dc_min_time</i>	(Optional) Sensor Group Data collection Minimum Time
<i>snsr_grp_dc_max_time</i>	(Optional) Sensor Group Data collection Maximum Time
<i>snsr_grp_enc_cur_time</i>	(Optional) Sensor Group Encoding Current Time
<i>snsr_grp_enc_min_time</i>	(Optional) Sensor Group Encoding Minimum Time
<i>snsr_grp_enc_max_time</i>	(Optional) Sensor Group Encoding Maximum Time
<i>snsr_grp_trans_cur_time</i>	(Optional) Sensor Group Transport Current Time
<i>snsr_grp_trans_min_time</i>	(Optional) Sensor Group Transport Minimum Time
<i>snsr_grp_trans_max_time</i>	(Optional) Sensor Group Transport Maximum Time
<i>snsr_grp_stream_cur_time</i>	(Optional) Sensor Group Streaming Current Time
<i>snsr_grp_stream_min_time</i>	(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
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> } } ] ] ]
```

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
transport_statistics	(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

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
__readonly__	(Optional)
operation_status	(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 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 ipv4 vrf

```
show troubleshoot l3 { ipv4 <dip4-prefix> [ src-ip <sip4-prefix> ] | ipv6 <dip6-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
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 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

show tunnel iftable

```
show tunnel iftable [ <ifindex-in> ] [ __readonly__ TABLE-tunnelIfTable <ifindex-out>
<tunnelIfEncapsMethod> <tunnelIfHopLimit> <tunnelIfSecurity> <tunnelIfTOS> <tunnelIfFlowLabel>
<tunnelIfAddressType> <tunnelIfLocalInetAddress> <tunnelIfRemoteInetAddress> <tunnelIfEncapsLimit>
]
```

Syntax Description

show	Show running system information
tunnel	Show information about Tunnel
iftable	Show tunnel interface table
<i>ifindex-in</i>	(Optional) Tunnel ifindex
<i>__readonly__</i>	(Optional)
TABLE-tunnelIfTable	(Optional) Tunnel interface table
<i>ifindex-out</i>	(Optional) Tunnel ifindex
<i>tunnelIfEncapsMethod</i>	(Optional) Encapsulation Method
<i>tunnelIfHopLimit</i>	(Optional) Hop Limit
<i>tunnelIfSecurity</i>	(Optional) Security
<i>tunnelIfTOS</i>	(Optional) TOS
<i>tunnelIfFlowLabel</i>	(Optional) Flow Label
<i>tunnelIfAddressType</i>	(Optional) Address Type
<i>tunnelIfLocalInetAddress</i>	(Optional) Local IP Address
<i>tunnelIfRemoteInetAddress</i>	(Optional) Remote IP Address
<i>tunnelIfEncapsLimit</i>	(Optional) Encaps Limit

Command Mode

- /exec

show tunnel inetconfigtable

```
show tunnel inetconfigtable [ <tunnelInetConfigAddressType-in> [ [ <tunnelInetConfigLocalAddress-in> [
<tunnelInetConfigRemoteAddress-in> [ <tunnelInetConfigEncapsMethod-in> [ <tunnelInetConfigID-in> ]
] ] ] ] [ __readonly__ TABLE-tunnelInetConfigTable <tunnelInetConfigAddressType-out>
<tunnelInetConfigLocalAddress-out> <tunnelInetConfigRemoteAddress-out>
<tunnelInetConfigEncapsMethod-out> <tunnelInetConfigID-out> <tunnelInetConfigIfIndex>
<tunnelInetConfigStatus> <tunnelInetConfigStorageType> ]
```

Syntax Description

show	Show running system information
tunnel	Show information about Tunnel
inetconfigtable	Show inet config table
<i>tunnelInetConfigAddressType-in</i>	(Optional) Address Type
<i>tunnelInetConfigLocalAddress-in</i>	(Optional) Local IP Address
<i>tunnelInetConfigRemoteAddress-in</i>	(Optional) Remote IP Address
<i>tunnelInetConfigEncapsMethod-in</i>	(Optional) Encapsulation Method
<i>tunnelInetConfigID-in</i>	(Optional) Configuration ID
<i>__readonly__</i>	(Optional)
TABLE-tunnelInetConfigTable	(Optional) Tunnel Inet Config Table
<i>tunnelInetConfigAddressType-out</i>	(Optional) Address Type
<i>tunnelInetConfigLocalAddress-out</i>	(Optional) Local IP Address
<i>tunnelInetConfigRemoteAddress-out</i>	(Optional) Remote IP Address
<i>tunnelInetConfigEncapsMethod-out</i>	(Optional) Encapsulation Method
<i>tunnelInetConfigID-out</i>	(Optional) Configuration ID
<i>tunnelInetConfigIfIndex</i>	(Optional) If Index
<i>tunnelInetConfigStatus</i>	(Optional) Row Status
<i>tunnelInetConfigStorageType</i>	(Optional) Storage Type

Command Mode

- /exec



U Show Commands

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show uddl

```
show uddl [ <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
uddl	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/rcv 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 ulib process

show ulib process

Syntax Description

show	Show running system information
ulib	Display ULIB status and configuration
process	ULIB Process information

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
<i>__readonly__</i>	(Optional)
<i>TABLE_sessions</i>	(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 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 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	(Optional) Also show hidden resources
with-flags	(Optional) Also show resource flags
__readonly__	(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> [
<sys_ver_str> ] <bios_cmpl_time> <kick_file_name> <kick_cmpl_time> <kick_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> <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>sys_ver_str</i>	(Optional)
<i>bios_cmpl_time</i>	(Optional)
<i>kick_file_name</i>	(Optional)
<i>kick_cmpl_time</i>	(Optional)
<i>kick_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_usecs</i>	(Optional)
<i>rr_ctime</i>	(Optional)
<i>rr_reason</i>	(Optional)
<i>rr_sys_ver</i>	(Optional)
<i>rr_service</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 compatibility

show version compatibility <uri0>

Syntax Description

show	Show running system information
version	Show the software version
compatibility	Show the software compatibility matrix with given image
<i>uri0</i>	Enter URI

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

<code>show</code>	Show running system information
<code>version</code>	Show the software version
<code>module</code>	Show the software version of a Module
<i>module</i>	Enter module number
<code>__readonly__</code>	(Optional)
<code>TABLE_version</code>	(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	(Optional) Detailed information
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 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> ] [ <nve_vni> ] | <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/iPV6/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
<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>action</i>	(Optional) Action
<i>actionid</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> 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 filter

```
show vlan filter [ access-map <name> | vlan <vlan> ] [ __readonly__ TABLE_vlan_filter <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>configured_vlans</i>	(Optional) VLAN numbers

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
<i>__readonly__</i>	(Optional) Read Only
<i>TABLE_vlancounters</i>	(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 mib private-vlan type

show vlan [id <vlan-id>] mib private-vlan type [__readonly__ <start> <vlan> <pvlan-type> <primary>]

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
mib	mib
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>vlan</i>	(Optional) vlan
<i>pvlan-type</i>	(Optional) PVLAN Type
<i>primary</i>	(Optional) associated to primary

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 interface host

```
show vlan private-vlan interface [ <if> ] host [ next <data> ] [ __readonly__ <start> <interface-id>
<secondary-vlan> ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
private-vlan	Private VLAN information
interface	Show interface status and information
<i>if</i>	(Optional) Interface id
host	private-vlan host
next	(Optional) next-entry
<i>data</i>	(Optional) ignore junk value
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>interface-id</i>	(Optional) Interface
<i>secondary-vlan</i>	(Optional) Secondary Vlan

Command Mode

- /exec

show vlan private-vlan interface mapping

```
show vlan private-vlan interface [ <if> ] mapping [ __readonly__ <start> <interface-id> <multi-primary>
<secondary-vlan> <two-way> ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
private-vlan	Private VLAN information
interface	Show interface status and information
<i>if</i>	(Optional) Interface id
mapping	private-vlan mapping
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>interface-id</i>	(Optional) Interface
<i>multi-primary</i>	(Optional) multiple primay capable
<i>secondary-vlan</i>	(Optional) seconadry vlans bitmap
<i>two-way</i>	(Optional) multiple primay capable

Command Mode

- /exec

show vlan private-vlan interface mode

show vlan private-vlan interface [<if>] mode [next <data>] [__readonly__ <start> <interface-id> <port-mode>]

Syntax Description

show	Show running system information
vlan	VLAN status
private-vlan	Private VLAN information
interface	Show interface status and information
<i>if</i>	(Optional) Interface id
mode	private-vlan port mode
next	(Optional) next-entry
<i>data</i>	(Optional) ignore junk value
__readonly__	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>interface-id</i>	(Optional) Interface
<i>port-mode</i>	(Optional) Port mode

Command Mode

- /exec

show vlan private-vlan interface trunk

```
show vlan private-vlan interface [ <if> ] trunk [ __readonly__ <start> <interface-id> <dynamic-state>
<encap-type> <native-vlan> <secondary-vlans> <normal-vlans> <dynamic-status> <encap-oper-type> ]
```

Syntax Description

show	Show running system information
vlan	VLAN status
private-vlan	Private VLAN information
interface	Show interface status and information
<i>if</i>	(Optional) Interface id
trunk	pvlan trunk
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>interface-id</i>	(Optional) Interface
<i>dynamic-state</i>	(Optional) dynamic state
<i>encap-type</i>	(Optional) encapsulation type
<i>native-vlan</i>	(Optional) native vlan
<i>secondary-vlans</i>	(Optional) secondary vlans
<i>normal-vlans</i>	(Optional) normal vlans
<i>dynamic-status</i>	(Optional) dynamic status
<i>encap-oper-type</i>	(Optional) encap oper type

Command Mode

- /exec

show vlan private-vlan mapping

```
show vlan [ id <vlan-id> ] private-vlan mapping [ next <data> ] [ __readonly__ <start> <vlan-id> <primary> ]
```

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
mapping	private-vlan mapping
next	(Optional) next-entry
<i>data</i>	(Optional) ignore junk value
__readonly__	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>vlan-id</i>	(Optional) secondary
<i>primary</i>	(Optional) primary-vlan

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
<i>__readonly__</i>	(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 vmtracker

```
show vmtracker [ connection <conn_name> ] { { info { { [ interface <intf_id> ] { summary | detail | host |
vm | port-group } } } | { vxlan-segment | vxlan-vm } } } | event-history }
```

Syntax Description

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-vm	Print all vm info
event-history	Display vmtracker related event-history

Command Mode

- /exec

show vmtracker certificate

show vmtracker certificate

Syntax Description

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 } ]
```

Syntax Description

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
<i>intf_id</i>	(Optional) Interface name to display
vlan	(Optional) vlan to display
<i>vlan_id</i>	(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 { <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

```
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> ] <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>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 consistency-parameters

```
show vpc consistency-parameters { global | 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
<i>if</i>	
<i>vpc-num</i>	Enter a Virtual Port Channel number
<i>__readonly__</i>	(Optional) Read Only
TABLE_vpc_consistency	(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 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
<i>vpc-vlan</i>	(Optional) port vlan
<i>vpc-orphan-ports</i>	(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
<i>__readonly__</i>	(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 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	(Optional) Specify ordering
id	(Optional) Order by ID
detail	(Optional) Display VRF detail information
passive	(Optional) Display passive VRF information
__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 vrf topology

```
show vrf topology [ order id ] [ detail ] [ __readonly__ TABLE_tib <vrf_name> <tib_af> <tib_name> <tib_id>
<tib_state> [ <tib_reason> <tib_pend> ] ]
```

Syntax Description

show	Show running system information
vrf	Configure VRF parameters
topology	Display topology information
order	(Optional) Specify ordering
id	(Optional) Order by ID
detail	(Optional) Display topology detail information
__readonly__	(Optional)
TABLE_tib	(Optional)
<i>vrf_name</i>	(Optional)
<i>tib_af</i>	(Optional)
<i>tib_name</i>	(Optional)
<i>tib_id</i>	(Optional)
<i>tib_state</i>	(Optional)
<i>tib_reason</i>	(Optional)
<i>tib_pend</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
<i>__readonly__</i>	(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> ] [ <m_addr> ] [ <m_priority> ] [ <m_adv> ] [
<m_expire> ] [ <down> ] [ <down_expire> ] [ <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
opt_v4_or_v6	(Optional) Enter ipv4 or ipv6
intf	(Optional) Interface
group_num	(Optional) Group Number
__readonly__	(Optional)
TABLE_istats	(Optional) Interface-level VRRPv3 statistics
TABLE_grp	(Optional) VRRP Groups
TABLE_sec	(Optional) Secondary Addresses
TABLE_vbrief	(Optional) VRRP Brief
global_drops	(Optional) Total dropped packets
i_intf	(Optional) Interface
i_drops	(Optional) Total dropped packets
ttl	(Optional) Invalid TTL/Hop limit
checksum	(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>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>adv_sent</i>	(Optional) Advertisements sent
<i>adv_err</i>	(Optional) Advertisement errors

<i>adv_rcvcd</i>	(Optional) Advertisements received
<i>v2adv_sent</i>	(Optional) Advertisements sent (v2)
<i>v2adv_err</i>	(Optional) Advertisement errors (v2)
<i>v2adv_rcvcd</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 pathway address

show vrrs pathway [<intf>] address

Syntax Description

vrrs	VRRS Show commands
show	Show running system information
pathway	Information about VRRS pathways
<i>intf</i>	(Optional) Interface
address	Internal information about pathway addresses

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 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 datafile

show vtp datafile

Syntax Description

show	Show running system information
vtp	VTP information
datafile	vlan.dat

Command Mode

- /exec

show vtp domain id

```
show vtp domain id <domain-id> [ __readonly__ <start> <domain_name> <oper-mode> <config_rev>
<last_modified_ip> <last_modified_time> <tftp_server> <tftp_file_path> <pruning_mode> <version_in_use>
<oper_pruning_mode> ]
```

Syntax Description

show	Show running system information
vtp	VTP information
domain	VTP administrative domain
id	VTP administrative domain ID
<i>domain-id</i>	Domain index(Domain-id)
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>domain_name</i>	(Optional) VTP Domain Name
<i>oper-mode</i>	(Optional) VTP Mode
<i>config_rev</i>	(Optional) Configuration Revision
<i>last_modified_ip</i>	(Optional) Configuration last modified by
<i>last_modified_time</i>	(Optional) Configuration last modified at
<i>tftp_server</i>	(Optional) TFTP Server IP Address
<i>tftp_file_path</i>	(Optional) TFTP complete path of the file
<i>pruning_mode</i>	(Optional) Pruning mode Enabled/Disabled
<i>version_in_use</i>	(Optional) VTP Version in use
<i>oper_pruning_mode</i>	(Optional) Operational Pruning Mode

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 mibstats

```
show vtp mibstats [ __readonly__ <start> <summary_rx> <subset_rx> <request_rx> <summary_tx>
<subset_tx> <request_tx> <num_config_rev_error> <num_config_digest_error> ]
```

Syntax Description

show	Show running system information
vtp	VTP information
mibstats	VTP Statistics for MIB
<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

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 trunk interface

```
show vtp trunk interface <if_index> [ __readonly__ <start> <out_if_index> <join_rx> <join_tx>
<summary_adv_vl_rx> <pruning_eligible> <vlan_joined_tx> <vlan_joined_rx> <vtp_enabled> ]
```

Syntax Description

show	Show running system information
vtp	VTP information
trunk	VTP Trunk VLAN
interface	Specify an VTP Trunk interface
<i>if_index</i>	VTP Trunk Port Interface Index
<i>__readonly__</i>	(Optional) Read Only
<i>start</i>	(Optional) Start
<i>out_if_index</i>	(Optional) Returned VTP Trunk Port Interface Index
<i>join_rx</i>	(Optional) Join(s) Received
<i>join_tx</i>	(Optional) Join(s) Transmitted
<i>summary_adv_vl_rx</i>	(Optional) Summary advts received from non-pruning-capable device
<i>pruning_eligible</i>	(Optional) Pruning Eligible
<i>vlan_joined_tx</i>	(Optional) Trunk Port TX Vlans Joined
<i>vlan_joined_rx</i>	(Optional) Trunk Port RX Vlans Joined
<i>vtp_enabled</i>	(Optional) VTP Enabled (Yes(1)/No(0))

Command Mode

- /exec

show vtp vlan

```
show vtp vlan <vlan-id> [ domain <domain-id> ] [ __readonly__ <start> <status> <type> <vlan_name>
<mtu> <said> <ring_number> <bridge_number> <stp_type> <parent_vlan> <trans_vlan1> <trans_vlan2>
<bridge_type> <max_are_hop> <max_ste_hop> <crf_backup> <vlan_type_ext> <ifindex> ]
```

Syntax Description

show	Show running system information
vtp	VTP information
vlan	VTP Domain VLANs
<i>vlan-id</i>	VTP VLAN index(VLAN-id)
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>status</i>	(Optional) VTP VLAN Status - Operational=0,Suspended=1
<i>type</i>	(Optional) VTP VLAN Type
<i>vlan_name</i>	(Optional) VTP VLAN Name
<i>mtu</i>	(Optional) VTP VLAN MTU
<i>said</i>	(Optional) VTP VLAN ID
<i>ring_number</i>	(Optional) VTP VLAN Ring Number for FDDI/TR
<i>bridge_number</i>	(Optional) VTP VLAN Bridge Number for FDDI-NET/TR-NET
<i>stp_type</i>	(Optional) VTP VLAN STP Type for FDDI-NET/TR-NET
<i>parent_vlan</i>	(Optional) VTP VLAN Parent VLAN for FDDI/TR
<i>trans_vlan1</i>	(Optional) VTP VLAN Translational VLAN 1
<i>trans_vlan2</i>	(Optional) VTP VLAN Translational VLAN 2
<i>bridge_type</i>	(Optional) VTP VLAN Bridge Type
<i>max_are_hop</i>	(Optional) VTP VLAN Max are-hop count
<i>max_ste_hop</i>	(Optional) VTP VLAN Max ste_hop count
<i>crf_backup</i>	(Optional) VTP VLAN Backup CRF Mode

<i>vlan_type_ext</i>	(Optional) VTP VLAN Type - VTP Managable, Internal, RSPAN, Dynamic GVRP
<i>ifindex</i>	(Optional) VTP VLAN Interface Index

Command Mode

- /exec



W Show Commands

- [show wred-queue qos-group-map](#), on page 2642
- [show wrr unicast-bandwidth](#), on page 2643

show wred-queue qos-group-map

show 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

Command Mode

- /exec

show wrr unicast-bandwidth

show wrr unicast-bandwidth

Syntax Description

show	Show running system information
wrr	unicast bandwidth configuration
unicast-bandwidth	rate in percentage of data rate

Command Mode

- /exec

■ show wrr unicast-bandwidth



X Show Commands

- [show xml server logging configuration](#), on page 2646
- [show xml server status](#), on page 2647

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

- [XML Support, on page 2651](#)



XML Support

- [XML Support for Show Commands, on page 2652](#)

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 authentication login password-aging	yes
show aaa authorization	yes
show aaa bypass-user	yes
show aaa groups	yes
show aaa local user blocked	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
show amt vrf all	yes

Show Commands	XML Support
show archive log config	yes
show arp access-lists	yes
show background	no
show banner motd	yes
show bash-shell	yes
show bfd addrmap	yes
show bfd clients	yes
show bfd discrmap	yes
show bfd intfipmap	yes
show bfd neighbors	yes
show bfd scalar	yes
show bfd session	yes
show bfd-app session status	no
show bgp	yes
show bgp	no
show bgp	yes
show bgp bmp server	yes
show bgp community	yes
show bgp convergence	yes
show bgp convergence private	no
show bgp dampening dampened	yes
show bgp dampening flap-statistics	yes
show bgp dampening parameters	yes
show bgp default-info	no
show bgp event-history	no
show bgp extcommunity	yes
show bgp l3vpn	yes
show bgp neighbors	yes

Show Commands	XML Support
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	no
show bgp private attr	no
show bgp private damp	no
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 autocopy-status	no
show boot current	yes
show boot mode	yes
show boot order	yes
show boot sup-1	yes
show boot sup-2	yes
show boot timings	no

Show Commands	XML Support
show boot variables	yes
show bootmode	yes
show buffers ip	no
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 cdp all	yes
show cdp global	yes
show cdp neighbors	yes
show cdp neighbors detail	yes
show cdp traffic interface2	yes
show cfs application	yes
show cfs lock	yes
show cfs merge status	yes
show cfs peers	yes
show cfs regions	yes
show cfs remote-app vsan domain	no
show cfs remote-switches vsan	yes
show cfs static peers	no

Show Commands	XML Support
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 class-map type psp	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 registry	no
show cli syntax	no
show cli variables	yes
show clock	yes
show clock utc	no
show config-profile	yes
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 nx-api rest	no
show configuration session nx-yang json	no

Show Commands	XML Support
show configuration session status	yes
show configuration session summary	yes
show configuration session vsh	yes
show consistency-checker l2 multicast group source vlan	no
show consistency-checker l3 multicast group source vrf	no
show consistency-checker link-state fabric-ieth	no
show consistency-checker vxlan l3-route vrf	no
show controller accounting log	no
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 certificatemap	yes
show crypto key mypubkey rsa	yes
show crypto ssh-auth-map	yes
show cts	yes
show current	no
show dampening interface	no
show diagnostic bootup level	yes
show diagnostic description module test all	yes
show diagnostic events	yes
show diagnostic result module	yes
show diagnostic result module all	yes
show diff rollback-patch	yes

Show Commands	XML Support
show dot1q-tunnel	yes
show dot1q-tunnel interface	yes
show dot1x	yes
show ecp	yes
show elam report	no
show email	yes
show encryption service stat	yes
show environment	yes
show eol status	no
show errdisable detect	yes
show errdisable flap	no
show evb	yes
show evb hosts	yes
show evb interface	no
show evb vsi	yes
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 event-history	no
show event-history xbar	no
show fabric database dci	yes
show fabric database dci	no
show fabric database host	yes
show fabric database host statistics	yes

Show Commands	XML Support
show fabric database host summary	yes
show fabric database host temp	no
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	yes
show fabric multicast event-history	no
show fabric multicast globals	yes
show fabric multicast ipv4 l2 vni	yes
show fabric multicast ipv4 rp	no
show fabric multicast statistics	no
show fabric multicast trigger-bgp-update vnid source group nlri-origin	no
show fabric multicast trigger-isis-update nh-addr swid	no
show fabric multicast trigger-m6rib-update vrf source group	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 fc2 plogi_pwwn	yes
show fc2 port brief	yes
show fc2 port drops	yes

Show Commands	XML Support
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 feature	yes
show feature-set	yes
show feature-set services	yes
show fhrp	yes
show fhrp verbose	yes
show file	yes
show fips status	yes
show flow cache	yes
show flow exporter	yes
show flow glbl-pkt-cnt	no
show flow interface	yes
show flow monitor	yes
show flow record	yes
show flow sw-monitor	no
show flow timeout	yes
show forwarding adjacency	yes
show forwarding bypass-hardware	no
show forwarding capture	yes
show forwarding dvif primary	no
show forwarding dvif secondary	no
show forwarding ecmp	yes
show forwarding ecmp recursive	yes

Show Commands	XML Support
show forwarding file-log disable	no
show forwarding file-log enable	no
show forwarding interfaces	yes
show forwarding ipv6 adjacency	yes
show forwarding ipv6 multicast route	yes
show forwarding ipv6 pss route	no
show forwarding ipv6 route	yes
show forwarding kvfib cache on	no
show forwarding l2 multicast	yes
show forwarding l2vpn ipv6 multicast route	no
show forwarding l2vpn label vpls	yes
show forwarding l2vpn label xconnect	yes
show forwarding l2vpn multicast outgoing-interface-list	no
show forwarding l2vpn multicast route	no
show forwarding l2vpn service vpls	no
show forwarding l2vpn service xconnect	no
show forwarding l2vpn vlan	yes
show forwarding mpls	yes
show forwarding mpls aggregate	yes
show forwarding mpls cbts	yes
show forwarding mpls drop-stats	yes
show forwarding mpls ecmp	yes
show forwarding mpls summary	yes
show forwarding mpls te	yes
show forwarding multicast outgoing-interface-list	yes
show forwarding multicast route	yes
show forwarding multicast-sr loopback interface	no
show forwarding nve l2 ingress-replication-peers	yes

Show Commands	XML Support
show forwarding nve l3 adjacency tunnel	yes
show forwarding nve l3 ecmp	no
show forwarding nve l3 peers	yes
show forwarding nve underlay-interfaces	no
show forwarding otv	yes
show forwarding pss route	no
show forwarding restart	no
show forwarding route	no
show forwarding security group-tag	yes
show forwarding security mac	yes
show forwarding test on	no
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 glbp	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 Commands	XML Support
show hardware capacity power	yes
show hardware fabricpath mac-learning module	yes
show hardware feature-capability	yes
show hardware flow aging	no
show hardware flow entry address type	no
show hardware flow ip	no
show hardware flow ipmac	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 ip verify	yes
show hardware profile buffer monitor show hardware profile buffer monitor internal	yes
show hardware profile forwarding-mode	no
show hardware profile latency monitor sampling show hardware profile latency monitor	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 rl snmp class-id	yes
show hardware rl snmp global class-id	yes

Show Commands	XML Support
show hardware rl snmp local snmp-index class-id	yes
show hostname	yes
show hosts	yes
show hsrp	yes
show hsrp anycast	no
show hsrp anycast interface vlan	no
show hsrp anycast remote-db	no
show hsrp anycast summary	no
show hsrp bfd-sessions	no
show hsrp bfd-sessions	yes
show hsrp delay	yes
show hsrp ext-mib sec-addr	yes
show hsrp ext-mib use-bia	yes
show hsrp mgo	yes
show hsrp summary	yes
show hw_telemetry ssx collector	yes
show hw_telemetry ssx details	yes
show hw_telemetry ssx monitor	yes
show hw_telemetry ssx record	yes
show icam entries acl module inst	yes
show icam entries multicast module	yes
show icam prediction entries acl module inst	yes
show icam prediction entries multicast module	yes
show icam prediction resource acl_tcaml module inst trend	yes
show icam prediction resource module inst	yes
show icam resource module inst	yes
show icam scale	yes
show ieth-header-decode	no

Show Commands	XML Support
show imp client	no
show imp client sa	no
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 status	no
show install all time-stats	no
show install impact	no
show install impact detail	no
show install log	yes
show install packages	yes
show install patches	yes
show interface	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	no
show interface counters detailed all	yes
show interface counters detailed cached	yes
show interface counters errors	yes
show interface counters errors	no
show interface counters errors	yes

Show Commands	XML Support
show interface counters snmp	yes
show interface counters storm-control	yes
show interface counters table	no
show interface counters trunk	yes
show interface dampening	no
show interface debounce	yes
show interface description	yes
show interface fcoe	yes
show interface flowcontrol	yes
show interface mac-address	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 transceiver	yes
show interface trunk	yes
show interface untagged-cos	yes
show inventory	yes
show ip adjacency	yes
show ip amt relay	yes
show ip amt route	yes
show ip amt tunnel	yes
show ip arp	yes
show ip arp anycast topo-info	yes
show ip arp cache	no

Show Commands	XML Support
show ip arp client	yes
show ip arp controller-statistics	yes
show ip arp esi	yes
show ip arp multihoming-statistics	yes
show ip arp off-list	yes
show ip arp open-flow error-statistics	yes
show ip arp snmp ptree	no
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 unnum-svi-adj	no
show ip arp vaddr	no
show ip arp vpc-statistics	yes
show ip as-path-access-list	yes
show ip cache	no
show ip client	yes
show ip community-list	yes
show ip debug	no
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 ip dhcp snooping	yes
show ip dhcp snooping binding	no
show ip dhcp snooping statistics	no

Show Commands	XML Support
show ip dhcp status	yes
show ip dns source-interface	yes
show ip dns source-interface vrf all	yes
show ip eigrp route-map statistics	yes
show ip extcommunity-list	yes
show ip fib adjacency	yes
show ip fib interfaces	yes
show ip fib mroute	yes
show ip fib mroute txlist	no
show ip fib route	yes
show ip fib route recovered	no
show ip ftm statistics	no
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 event-history	no
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 event-history	no
show ip igmp snooping explicit-tracking	yes
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 Commands	XML Support
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 snmp mib adminMode	yes
show ip igmp snooping snmp mib aliasingMode	yes
show ip igmp snooping snmp mib cisV3ProcessEnableOperStatus	yes
show ip igmp snooping snmp mib explicitTrackingTable	yes
show ip igmp snooping snmp mib fallBackTime	yes
show ip igmp snooping snmp mib fastBlockEnabled	yes
show ip igmp snooping snmp mib fastleaveenabled	yes
show ip igmp snooping snmp mib filterStatsTable	yes
show ip igmp snooping snmp mib ifAccessGroupTable	yes
show ip igmp snooping snmp mib ifConfigTable	yes
show ip igmp snooping snmp mib ifLimitTable	yes
show ip igmp snooping snmp mib ifLimitTotalTable	yes
show ip igmp snooping snmp mib igmpsnoopingenabled	yes
show ip igmp snooping snmp mib iterfaceStatsTable	yes
show ip igmp snooping snmp mib lastMemeberQueryCount	yes
show ip igmp snooping snmp mib lastMemeberQueryInterval	yes
show ip igmp snooping snmp mib leaveQueryType	yes
show ip igmp snooping snmp mib mcastGroupTable	yes
show ip igmp snooping snmp mib mcastRouterCfgTable	yes
show ip igmp snooping snmp mib mcastRouterConfigTable	yes
show ip igmp snooping snmp mib multicastGroupConfigTable	yes
show ip igmp snooping snmp mib multicastGroupPortListTable	yes
show ip igmp snooping snmp mib multicastGroupTable	yes
show ip igmp snooping snmp mib operMode	yes

Show Commands	XML Support
show ip igmp snooping snmp mib querierTable	yes
show ip igmp snooping snmp mib reportsuppressionenabled	yes
show ip igmp snooping snmp mib robustnessVariable	yes
show ip igmp snooping snmp mib routerAlertCheckEnabled	yes
show ip igmp snooping snmp mib sourceOnlyEntryAgingTime	yes
show ip igmp snooping snmp mib sourceOnlyLearningEnabled	yes
show ip igmp snooping snmp mib tcxFloodQueryCount	yes
show ip igmp snooping snmp mib timeToLiveCheckEnabled	yes
show ip igmp snooping snmp mib topoChangeQuerySolicitEnabled	yes
show ip igmp snooping snmp mib v3ProcessEnabledAdminStatus	yes
show ip igmp snooping snmp mib v3SnoopingSupport	yes
show ip igmp snooping snmp mib vlanconfigtable	yes
show ip igmp snooping snmp mib vlanFilterConfigTable	yes
show ip igmp snooping statistics	yes
show ip igmp vrf all	yes
show ip interface	yes
show ip lisp	no
show ip lisp data-cache	no
show ip lisp locator-hash	no
show ip lisp map-cache	no
show ip lisp statistics	no
show ip lisp translate-cache	no
show ip lisp version-hash	no
show ip load-sharing	yes
show ip local policy	yes
show ip local-pt	no
show ip logging	yes
show ip mbgp	no

Show Commands	XML Support
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 msdp count	yes
show ip msdp event-history	no
show ip msdp mesh-group	yes
show ip msdp peer	yes
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	no
show ip nat timeout	yes
show ip nat translations	yes
show ip nat-alias	no
show ip ospf	yes
show ip ospf border-routers	yes
show ip ospf database	yes
show ip ospf database database-summary	yes

Show Commands	XML Support
show ip ospf database detail	yes
show ip ospf event-history	no
show ip ospf event-history detail	no
show ip ospf ha	yes
show ip ospf interface	yes
show ip ospf interface brief	yes
show ip ospf lsa-content-changed-list	yes
show ip ospf memory	yes
show ip ospf neighbors	yes
show ip ospf neighbors detail	yes
show ip ospf neighbors summary	yes
show ip ospf policy statistics	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 sham-links	yes
show ip ospf statistics	yes
show ip ospf summary-address	yes
show ip ospf traffic	yes
show ip ospf traps-queue	no
show ip ospf virtual-links	yes
show ip ospf virtual-links brief	yes
show ip overlay-traffic	no
show ip pim bitfield	no
show ip pim config-sanity	yes
show ip pim df	yes
show ip pim event-history	no

Show Commands	XML Support
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 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 policy statistics redistribute	yes
show ip route	yes
show ip router-id	no
show ip rsvp	yes

Show Commands	XML Support
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 ssh source-interface	yes
show ip ssh source-interface vrf all	yes
show ip static-route	yes
show ip stats	no
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 txlist list	no
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 amt tunnel	yes
show ipv6 bgp	no

Show Commands	XML Support
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 ipv6 bgp summary	no
show ipv6 dhcp guard policy	yes
show ipv6 dhcp relay	yes
show ipv6 dhcp relay statistics	yes
show ipv6 dhcp-ldra	yes
show ipv6 dhcp-ldra statistics	yes
show ipv6 local policy	yes
show ipv6 nd rguard policy	yes
show ipv6 neighbor binding	no
show ipv6 neighbor binding mac	no
show ipv6 pim bitfield	no
show ipv6 pim df	yes
show ipv6 pim embed-rp	no
show ipv6 pim event-history	no
show ipv6 pim fabric info	yes
show ipv6 pim fabric legacy-vlans	yes
show ipv6 pim group-range	yes
show ipv6 pim interface show ipv6 pim interface	yes
show ipv6 pim neighbor	yes

Show Commands	XML Support
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 route	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 isis	yes
show isis adjacency	yes
show isis csnp	yes
show isis database	yes
show isis distribute-ls	yes
show isis event-history	no
show isis hostname	yes
show isis interface	yes
show isis ipv6 redistribute route	yes
show isis ipv6 route	yes

Show Commands	XML Support
show isis ipv6 route-map statistics	yes
show isis lslib	no
show isis lsp free-list	no
show isis mesh-group	yes
show isis non tlv overflow-list	no
show isis redistribute route	yes
show isis route	yes
show isis route is	no
show isis route-map statistics	yes
show isis rrm	yes
show isis segment-routing local-mapcache	no
show isis segment-routing mapcache	yes
show isis segment-routing remote-srgb	yes
show isis segment-routing sids	no
show isis spf-adjacency	yes
show isis spf-log	yes
show isis srm	yes
show isis ssn	yes
show isis statistics	yes
show isis summary-address show isis ipv6 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 itd vrf	yes
show key chain	yes
show key chain mode decrypt	yes

Show Commands	XML Support
show keystore	yes
show kim inconsistency	no
show kubernetes containers	no
show l2fwder l2rib info	no
show l2fwder statistics	no
show l2rib clients	yes
show l2rib producers	yes
show l2rib registrations	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 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 Commands	XML Support
show lacp neighbor	yes
show lacp port-channel	yes
show lacp system-identifier	yes
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 file	yes
show license host-id	yes
show license reserved	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 lisp ddt	no
show lisp ddt queue	no
show lisp ddt referral-cache	no
show lisp dynamic-eid	no
show lisp elp	no
show lisp negative-prefix	no
show lisp proxy-itr	no
show lisp site	no
show lisp site instance-id	no
show lisp smr	no
show lisp stats-cache	no

Show Commands	XML Support
show lldp all	yes
show lldp dcbox 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 locator-led status	yes
show logging	no
show logging console	no
show logging info	yes
show logging last	no
show logging level	yes
show logging level aaa	no
show logging level aclmgr	no
show logging level adbm	no
show logging level adjmgr	no
show logging level amt	no
show logging level arp	no
show logging level ascii-cfg	no
show logging level bfd	no
show logging level bgp	no
show logging level bloggerd	no

Show Commands	XML Support
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 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 device_test	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 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 Commands	XML Support
show logging level fabric forwarding	no
show logging level feature-mgr	no
show logging level fs-daemon	no
show logging level glbp	no
show logging level gpixm	no
show logging level hsrp	no
show logging level hw_telemetry	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 ipconf	no
show logging level ipfib	no
show logging level ipqos	no
show logging level iscm	no
show logging level isis	no
show logging level keystore	no
show logging level l2fm	no
show logging level l3vm	no
show logging level lacp	no
show logging level ldap	no
show logging level license	no
show logging level lim	no
show logging level lisp	no

Show Commands	XML Support
show logging level lldp	no
show logging level mmode	no
show logging level module	no
show logging level monitor	no
show logging level mpls ldp	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 ngoam	no
show logging level ntp	no
show logging level nve	no
show logging level nxsdk	no
show logging level onep	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 Commands	XML Support
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-profile	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 rpm	no
show logging level rsvp	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 stripcl	no
show logging level sysmgr	no
show logging level tacacs	no
show logging level telemetry	no

Show Commands	XML Support
show logging level track	no
show logging level tunnel	no
show logging level u6rib	no
show logging level udd	no
show logging level urib	no
show logging level vdc_mgr	no
show logging level virtual-service	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 vshd	no
show logging level vtp	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 Commands	XML Support
show logging pending	no
show logging pending-diff	no
show logging rate-limit	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 multicast	yes
show mac vdc	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 mgmt-policy	yes
show module	yes
show module bandwidth-fairness	yes
show module supported	no
show module uptime	yes

Show Commands	XML Support
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 ttl	yes
show mpls label range	yes
show mpls label statistics	no
show mpls oam echo statistics	yes
show mpls static binding	yes
show mpls static binding vrf per-vrf	yes
show mpls static trace	no
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 controller	yes
show nbm flows	yes
show nbm flows bandwidth	no
show nbm flows statistics	yes
show nbm switch-role	yes
show ngoam acl status	yes
show ngoam actsessions	no
show ngoam interface statistics	yes
show ngoam loopback	yes
show ngoam pathtrace	yes
show ngoam probe	yes

Show Commands	XML Support
show ngoam role	no
show ngoam traceroute statistics	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 nve bfd neighbors	yes
show nve core-links	yes
show nve ethernet-segment	yes
show nve interface	yes
show nve multisite dci-links	yes
show nve multisite fabric-links	yes
show nve peers	yes
show nve peers interface counters	yes
show nve peers vni interface counters	yes
show nve replication-servers	yes
show nve vni	yes
show nve vni counters	yes

Show Commands	XML Support
show nve vni ingress-replication	yes
show nve vrf	yes
show nve vxlan-params	yes
show nxapi	yes
show nxapi-server logs	no
show object-group	yes
show onep	yes
show onep cli-extensions applications	yes
show onep error	yes
show onep history	yes
show onep statistics	yes
show onep status	yes
show onep trace	yes
show openflow hardware capabilities	no
show openflow switch	yes
show openflow switch flows	no
show ospfv3	yes
show ospfv3 border-routers	yes
show ospfv3 database	yes
show ospfv3 database database-summary	yes
show ospfv3 database detail	yes
show ospfv3 event-history	no
show ospfv3 event-history detail	no
show ospfv3 ha	yes
show ospfv3 interface	yes
show ospfv3 interface brief	yes
show ospfv3 lsa-content-changed-list	yes
show ospfv3 memory	yes

Show Commands	XML Support
show ospfv3 neighbors	yes
show ospfv3 neighbors detail	yes
show ospfv3 neighbors summary	yes
show ospfv3 policy statistics	no
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 session device-group	yes
show plb vrf	yes
show pmap-int	no
show pmap-int-br interface br	yes
show policy-map	yes
show policy-map interface control-plane	yes
show policy-map interface type psp	yes
show policy-map system	yes
show policy-map type control-plane	yes

Show Commands	XML Support
show policy-map type network-qos	yes
show policy-map type psp	yes
show port-channel load-balance	yes
show port-profile	yes
show port-profile brief	yes
show port-profile expand-interface	yes
show port-profile sync-status	yes
show port-profile usage	yes
show port-security	yes
show port-security address	yes
show port-security address blocked	yes
show port-security address interface	yes
show port-security address nvram	yes
show port-security detail interface	yes
show port-security interface	yes
show port-security multivlan address	yes
show port-security secure address	yes
show port-security state	yes
show port-security traps enable	yes
show power inline	yes
show power inline police	yes
show power inline priority	yes
show privilege	no
show processes	yes
show processes cpu	yes
show processes cpu history	no
show processes cpu history data	yes
show processes log	yes

Show Commands	XML Support
show processes log details	yes
show processes log pid	yes
show processes log vdc-all	yes
show processes memory	yes
show processes memory clis	no
show processes memory physical	yes
show processes memory shared	yes
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 processes version	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 cost	yes
show ptp counters interface	yes
show ptp domain data	yes
show ptp interface domain	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 Commands	XML Support
show qos dcbxp info	yes
show qos dcbxp interface	yes
show qos shared-policer	yes
show queuing	yes
show queuing pfc-queue	yes
show queuing pfc-queue snmp ifIndex	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 radius-server sorted	yes
show radius-server statistics	yes
show redundancy status	yes
show regexp	no
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 event-history	no

Show Commands	XML Support
show routing hash	yes
show routing hidden-nh	yes
show routing ipv6	yes
show routing ipv6 clients	yes
show routing ipv6 event-history	no
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 nexthop info	no
show routing ipv6 nhlfe	yes
show routing ipv6 recursive-next-hop	yes
show routing memory estimate	yes
show routing memory statistics	yes
show routing nhlfe	yes
show routing recursive-next-hop	yes
show routing unresolved-next-hop	no
show routing vxlan-hash peer-ip	no
show routing-context	yes
show routing-privilege	no
show running-config	no
show running-config aaa	no
show running-config aclmgr	no
show running-config aclmgr active	no
show running-config adjmgr	no
show running-config all	no
show running-config amt	no
show running-config arp	no

Show Commands	XML Support
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 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 explicit	no
show running-config fabric forwarding	no
show running-config fabric multicast	no
show running-config glbp	no

Show Commands	XML Support
show running-config hsrp	no
show running-config hw_telemetry	no
show running-config icam	no
show running-config igmp	no
show running-config imp	no
show running-config interface	no
show running-config interface defaults	no
show running-config interface explicit	no
show running-config ip	no
show running-config ipqos	no
show running-config ipqos active	no
show running-config isis	no
show running-config l3vm	no
show running-config ldap	no
show running-config license	no
show running-config lisp	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 ldp	no
show running-config mpls static	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 netflow	no
show running-config ngoam	no

Show Commands	XML Support
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
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 res_mgr	no
show running-config rip	no
show running-config rpm	no
show running-config rsvp	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 Commands	XML Support
show running-config smart-channel	no
show running-config snmp	no
show running-config spanning-tree	no
show running-config switch	no
show running-config tacacs	no
show running-config telemetry	no
show running-config track	no
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 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 sflow	yes

Show Commands	XML Support
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 mib pimCandidateRPTable	yes
show snmp mib pimComponentTable	yes
show snmp mib pimInterfaceTable	yes
show snmp mib pimIpMRouteNextHopTable	yes
show snmp mib pimIpMRouteTable	yes
show snmp mib pimJoinPruneInterval	yes
show snmp mib pimNeighborTable	yes
show snmp mib pimRPSetTable	yes
show snmp nms-statistics	yes
show snmp oid-statistics	yes
show snmp pss	no

Show Commands	XML Support
show snmp roledebug	no
show snmp sessions	yes
show snmp snmpv3stats	no
show snmp source-interface	yes
show snmp trap	yes
show snmp user	yes
show snmp-dhcp-relay drop statistics	yes
show snmp-dhcp-relay statistics pkt	yes
show snmp-ipv6-dhcp-relay drop statistics	yes
show snmp-ipv6-dhcp-relay statistics pkt	yes
show sockets buffers	no
show sockets client	yes
show sockets connection	yes
show sockets keychain-dump	no
show sockets local-port-range	yes
show sockets performance	no
show sockets secure-lxc	no
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 Commands	XML Support
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 ssh key	yes
show ssh server	yes
show startup-config	no
show startup-config aaa	no
show startup-config aclmgr	no
show startup-config adjmgr	no
show startup-config amt	no
show startup-config arp	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 diagnostic	no
show startup-config dot1x	no
show startup-config ecp	no
show startup-config eem	no
show startup-config eigrp	no

Show Commands	XML Support
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 startup-config fabric multicast	no
show startup-config hw_telemetry	no
show startup-config icam	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 isis	no
show startup-config l3vm	no
show startup-config ldap	no
show startup-config license	no
show startup-config lisp	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 ldp	no
show startup-config mpls static	no
show startup-config mpls traffic-eng	no
show startup-config msdp	no
show startup-config nat	no

Show Commands	XML Support
show startup-config nbm	no
show startup-config ngoam	no
show startup-config ntp	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 rpm	no
show startup-config rsvp	no
show startup-config security	no
show startup-config segment-routing	no
show startup-config services	no
show startup-config sflow	no
show startup-config smart-channel	no
show startup-config snmp	no
show startup-config switch	no

Show Commands	XML Support
show startup-config tacacs	no
show startup-config telemetry	no
show startup-config track	no
show startup-config udld	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 vpc	no
show startup-config vrf	no
show startup-config vrf default	no
show startup-config vshd	no
show startup-config vtp	no
show summary	no
show switch-profile	yes
show switch-profile buffer	yes
show switch-profile peer	yes
show switch-profile status	yes
show switch-scope controller	no
show switching-mode	yes
show switching-mode fabric-speed	yes
show system auto-collect tech-support	yes
show system clis event-history	no
show system config reload-pending	yes
show system cores	yes
show system error-id	yes
show system exception-info	yes
show system fast-reload stabilization-timer	yes

Show Commands	XML Support
show system inband queuing statistics	yes
show system inband queuing status	yes
show system kgdb	no
show system login	yes
show system login failures	yes
show system memory-thresholds	yes
show system mode	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	no
show system resources	yes
show system resources module	no
show system resources module all	yes
show system routing mode	yes
show system srg	no
show system standby manual-boot	yes
show system switch-mode	yes
show system switchover impact	no
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 Commands	XML Support
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 all-binary	no
show tech-support analytics	no
show tech-support arp	no
show tech-support ascii-cfg	no
show tech-support bfd	no
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 Commands	XML Support
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 tech-support fabric forwarding	no
show tech-support fabric multicast	no
show tech-support fast-reload	no
show tech-support fc2	no
show tech-support fips	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 hsrp	no
show tech-support hsrp brief	no

Show Commands	XML Support
show tech-support hw_telemetry	no
show tech-support icam	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 ip rsvp	no
show tech-support ipqos	no
show tech-support ipv6 pim	no
show tech-support isis	no
show tech-support issu	no
show tech-support l2	no
show tech-support l2fm clients	no
show tech-support l2fm detail	no
show tech-support l2fm l2dbg	no
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 Commands	XML Support
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 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 monitorc-all	no
show tech-support mpls ldp	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-vxlan- evpn	no
show tech-support mvpn	no
show tech-support nat	no
show tech-support nbm	no
show tech-support netflow	no
show tech-support netstack	no
show tech-support netstack detail	no
show tech-support ngoam	no

Show Commands	XML Support
show tech-support npacl	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 user	no
show tech-support onep	no
show tech-support openflow	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 tech-support pktmgr	no
show tech-support platform	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 poe	no
show tech-support port	no
show tech-support port-channel	no

Show Commands	XML Support
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 rpm	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 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 smartc	no
show tech-support smm	no
show tech-support snmp	no
show tech-support sockets	no
show tech-support statsclient	no
show tech-support stp	no
show tech-support sup-filesys	no
show tech-support sysmgr	no

Show Commands	XML Support
show tech-support tacacs	no
show tech-support telemetry	no
show tech-support track	no
show tech-support tunnel	no
show tech-support udd	no
show tech-support usd-all	no
show tech-support vdc	no
show tech-support virtual-service	no
show tech-support vmtracker	no
show tech-support vpc	no
show tech-support vrrp	no
show tech-support vrrp brief	no
show tech-support vrrpv3	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 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 Commands	XML Support
show time-range	yes
show track	yes
show track brief	yes
show troubleshoot l3 ipv4 vrf	no
show ttag brief	yes
show tunnel iftable	yes
show tunnel inetconfigtable	yes
show udd	yes
show udd global	yes
show udd neighbors	yes
show ulib process	no
show user-account	yes
show username keypair	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 compatibility	no
show version epld	yes
show version image	yes
show version module	yes
show virtual-service	yes
show virtual-service storage pool list	yes
show virtual-service tech-support	no

Show Commands	XML Support
show virtual-service utilization name	yes
show virtual-service version	yes
show vlan access-list	yes
show vlan access-map	yes
show vlan counters	yes
show vlan dot1Q tag native	yes
show vlan filter	yes
show vlan id counters	yes
show vlan id vn-segment	yes
show vlan mib private-vlan type	yes
show vlan private-vlan	yes
show vlan private-vlan interface host	yes
show vlan private-vlan interface mapping	yes
show vlan private-vlan interface mode	yes
show vlan private-vlan interface trunk	yes
show vlan private-vlan mapping	yes
show vlan private-vlan type	yes
show vmtracker	no
show vmtracker certificate	no
show vmtracker fabric auto-config	no
show vmtracker status	yes
show vpc	yes
show vpc consistency-parameters	yes
show vpc consistency-parameters vlans	yes
show vpc orphan-ports	yes
show vpc peer-keepalive	yes
show vpc role	yes
show vpc statistics peer-keepalive	yes

Show Commands	XML Support
show vpc statistics vpc	no
show vrf	no
show vrf	yes
show vrf topology	yes
show vrrp	yes
show vrrp bfd-sessions	yes
show vrrpv3	yes
show vrrs client	yes
show vrrs pathway	yes
show vrrs pathway address	no
show vrrs server	yes
show vrrs tag	yes
show vtp counters	yes
show vtp datafile	no
show vtp domain id	yes
show vtp interface	yes
show vtp mibstats	yes
show vtp password	yes
show vtp status	yes
show vtp trunk interface	yes
show vtp vlan	yes
show wred-queue qos-group-map	no
show wrt unicast-bandwidth	no
show xml server logging configuration	no
show xml server status	yes

