



Cisco Nexus 9000 Series NX-OS Command Reference (Configuration Commands), Release 7.0(3)I7(x)

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Americas Headquarters

Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
<http://www.cisco.com>
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 527-0883



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Preface

This preface includes the following sections:

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

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.

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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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aaa accounting default

```
[no] aaa accounting default { group <s0> [ <s1> [ <s2> [ <s3> [ <s4> [ <s5> [ <s6> [ <s7> ] ] ] ] ] ] ] ] [ local1
| none ] | local [ none1 ] | none2 }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
accounting	Configure accounting methods
default	Configure default methods
group	Specify server groups to redirect the accounting logs
s0	Server group name
s1	(Optional) Server group name
s2	(Optional) Server group name
s3	(Optional) Server group name
s4	(Optional) Server group name
s5	(Optional) Server group name
s6	(Optional) Server group name
s7	(Optional) Server group name
none	(Optional) No accounting
none1	(Optional) No accounting
none2	No accounting
local	Use local accounting
local1	(Optional) Use local accounting

Command Mode

- /exec/configure

aaa accounting dot1x default group

[no] aaa accounting dot1x default group <grp_name> +

Syntax Description

aaa	Configure aaa functions
accounting	Configure accounting methods
dot1x	accounting methods for dot1x
default	default aaa methods
<i>grp_name</i>	server group name

Command Mode

- /exec/configure

aaa accounting onep default group

[no] aaa accounting onep default group <grp_name> +

Syntax Description

aaa	Configure aaa functions
accounting	configure accounting methods
<i>grp_name</i>	server group name

Command Mode

- /exec/configure

aaa authentication dot1x default group

[no] aaa authentication dot1x default group <grp_name> +

Syntax Description

aaa	Configure aaa functions
authentication	Configure authentication methods
<i>grp_name</i>	server group name

Command Mode

- /exec/configure

aaa authentication login ascii-authentication

[no] aaa authentication login ascii-authentication

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
ascii-authentication	enable ascii authentication

Command Mode

- /exec/configure

aaa authentication login console

```
[no] aaa authentication login console { group <s0> [ { local1 | none | <s1> [ { local1 | none | <s2> [ { local1 | none | <s3> [ { local1 | none | <s4> [ { local1 | none | <s5> [ { local1 | none | <s6> [ { local1 | none | <s7> [ { local1 | none } ] ] ] ] ] ] ] ] ] ] ] ] } | local | none }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
console	Configure console methods
group	Specify server groups
s0	Server group name
none	(Optional) No authentication
s1	(Optional) Server group name
none	(Optional) No authentication
s2	(Optional) Server group name
none	(Optional) No authentication
s3	(Optional) Server group name
none	(Optional) No authentication
s4	(Optional) Server group name
none	(Optional) No authentication
s5	(Optional) Server group name
none	(Optional) No authentication
s6	(Optional) Server group name
none	(Optional) No authentication
s7	(Optional) Server group name
none	(Optional) No authentication
local	Use local username authentication
local1	(Optional) Use local username authentication

none	No authentication
------	-------------------

Command Mode

- /exec/configure

aaa authentication login default

```
[no] aaa authentication login default { group <s0> [ { local1 | none | <s1> [ { local1 | none | <s2> [ { local1 | none | <s3> [ { local1 | none | <s4> [ { local1 | none | <s5> [ { local1 | none | <s6> [ { local1 | none | <s7> [ { local1 | none } ] ] ] ] ] ] ] ] ] ] ] ] | local | none }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
default	Configure default methods
group	Specify server groups
s0	Server group name
none	(Optional) No authentication
s1	(Optional) Server group name
none	(Optional) No authentication
s2	(Optional) Server group name
none	(Optional) No authentication
s3	(Optional) Server group name
none	(Optional) No authentication
s4	(Optional) Server group name
none	(Optional) No authentication
s5	(Optional) Server group name
none	(Optional) No authentication
s6	(Optional) Server group name
none	(Optional) No authentication
s7	(Optional) Server group name
none	(Optional) No authentication
local	Use local username authentication
local1	(Optional) Use local username authentication

none	No authentication
------	-------------------

Command Mode

- /exec/configure

aaa authentication login default fallback error local

[no] aaa authentication login { default | console } fallback error local

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
default	Configure default methods
console	Configure console methods
fallback	Configure fallback behavior
error	Fallback in case all AAA servers configured for remote authentication are unreachable (Authentication error)
local	Fallback to local authentication

Command Mode

- /exec/configure

aaa authentication login enable

[no] aaa authentication login { mschap | mschapv2 | chap } enable

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
mschap	MSCHAP authentication for login
mschapv2	MSCHAP V2 authentication for login
chap	CHAP authentication for login
enable	enable the authentication for login

Command Mode

- /exec/configure

aaa authentication login error-enable

[no] aaa authentication login error-enable

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
error-enable	enable display of error message on login failures

Command Mode

- /exec/configure

aaa authentication login invalid-username-log

[no] aaa authentication login invalid-username-log

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
invalid-username-log	enable invalid username log

Command Mode

- /exec/configure

aaa authentication login password-aging enable

[no] aaa authentication login password-aging enable

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
login	Configure methods for login
password-aging	password-aging authentication for login
enable	enable password-aging notification

Command Mode

- /exec/configure

aaa authentication onep default group

[no] aaa authentication onep default group <grp_name> +

Syntax Description

aaa	Configure aaa functions
authentication	Configure authentication methods
<i>grp_name</i>	server group name

Command Mode

- /exec/configure

aaa authentication rejected

[no] aaa authentication rejected

Syntax Description

no	Negate a command or set its defaults
aaa	Configure aaa functions
authentication	Configure authentication methods
rejected	Set max number of fail attempts

Command Mode

- /exec/configure

aaa authentication rejected in ban

aaa authentication rejected <i1> in <i2> ban <i3>

Syntax Description

aaa	Configure aaa functions
authentication	Configure authentication methods
rejected	Set max number of fail attempts
<i>i1</i>	Fail attempts max value
in	Watch period for fail attempts
<i>i2</i>	Time period in seconds
ban	Block time period
<i>i3</i>	Time period in seconds

Command Mode

- /exec/configure

aaa authorization commands console

```
[no] aaa authorization { commands | config-commands } console { group <s0> [ { local | none | <s1> [ { local | none | <s2> [ { local | none | <s3> [ { local | none | <s4> [ { local | none | <s5> [ { local | none | <s6> [ { local | none | <s7> [ { local | none } ] ] ] ] ] ] ] ] ] ] ] ] ] ] | local | none }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authorization	Configure authorization methods
commands	Authorization for all exec-mode commands
config-commands	Authorization for config commands
console	Configure methods console
group	Specify server groups
s0	Server group name
s1	(Optional) Server group name
s2	(Optional) Server group name
s3	(Optional) Server group name
s4	(Optional) Server group name
s5	(Optional) Server group name
s6	(Optional) Server group name
s7	(Optional) Server group name
local	(Optional) Use local RBACL based authorization
none	(Optional) No authorization

Command Mode

- /exec/configure

aaa authorization commands default

```
[no] aaa authorization { commands | config-commands } default { group <s0> [ { local | none | <s1> [ { local | none | <s2> [ { local | none | <s3> [ { local | none | <s4> [ { local | none | <s5> [ { local | none | <s6> [ { local | none | <s7> [ { local | none } ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] | local | none }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authorization	Configure authorization methods
commands	Authorization for all exec-mode commands
config-commands	Authorization for config commands
default	Configure default methods
group	Specify server groups
s0	Server group name
s1	(Optional) Server group name
s2	(Optional) Server group name
s3	(Optional) Server group name
s4	(Optional) Server group name
s5	(Optional) Server group name
s6	(Optional) Server group name
s7	(Optional) Server group name
local	(Optional) Use local RBACL based authorization
none	(Optional) No authorization

Command Mode

- /exec/configure

aaa authorization cts default group

[no] aaa authorization cts default group <grp_name> +

Syntax Description

aaa	Configure aaa functions
authorization	Configure authorization methods
cts	authorization methods for cts
default	default aaa methods
group	server group
<i>grp_name</i>	server group name

Command Mode

- /exec/configure

aaa authorization ssh default group

```
[no] aaa authorization { ssh-publickey | ssh-certificate } default { group <s0> [ { local1 | <s1> [ { local1 | <s2> [ { local1 | <s3> [ { local1 | <s4> [ { local1 | <s5> [ { local1 | <s6> [ { local1 | <s7> [ { local1 } ] ] ] ] ] ] ] ] ] ] ] ] ] ] ] | local }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
authorization	Configure authorization methods
ssh-publickey	Configure ssh publickey
ssh-certificate	Configure ssh certificate
default	Configure default ssh methods
group	Specify server groups
<i>s0</i>	Server group name
<i>s1</i>	(Optional) Server group name
<i>s2</i>	(Optional) Server group name
<i>s3</i>	(Optional) Server group name
<i>s4</i>	(Optional) Server group name
<i>s5</i>	(Optional) Server group name
<i>s6</i>	(Optional) Server group name
<i>s7</i>	(Optional) Server group name
local	Use local username authentication
local1	(Optional) Use local username authentication

Command Mode

- /exec/configure

aaa bypass-user

[no] aaa bypass-user <s0> { [accounting] [authorization] | [authorization] [accounting] }

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
bypass-user	Configure bypass user
s0	Enter the username
accounting	(Optional) Bypass accounting
authorization	(Optional) Bypass authorization

Command Mode

- /exec/configure

aaa group server ldap

[no] aaa group server ldap <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
group	Configure aaa server group
server	Configure aaa server group
ldap	LDAP server group name
s0	LDAP server group name

Command Mode

- /exec/configure

aaa group server radius

[no] aaa group server radius <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
group	Configure aaa server group
server	Configure aaa server group
radius	RADIUS server group name
s0	RADIUS server group name

Command Mode

- /exec/configure

aaa group server tacacs

[no] aaa group server tacacs <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
group	Configure aaa server group
server	Configure aaa server group
tacacs	TACACS+ server group name
s0	TACACS+ server group name

Command Mode

- /exec/configure

aaa test-authentication

[no] aaa test-authentication

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
test-authentication	Test aaa authentication

Command Mode

- /exec/configure

aaa test-radius-authentication

[no] aaa test-radius-authentication

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
test-radius-authentication	Test aaa radius authentication

Command Mode

- /exec/configure

aaa user default-role

[no] aaa user default-role

Syntax Description

no	(Optional) Negate a command or set its defaults
aaa	Configure aaa functions
user	Remotely authenticated user
default-role	Default role assigned by aaa-admin for remote authentication

Command Mode

- /exec/configure

abort

abort

Syntax Description

abort	Exit region configuration mode, aborting changes
-------	--

Command Mode

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

abort

abort

Syntax Description

abort	abort itd session
-------	-------------------

Command Mode

- /exec/configure/itd-session-device-group

abort

abort

Syntax Description

abort	Abort the current configuration session
-------	---

Command Mode

- /exec/configure

abort

abort

Syntax Description

abort	abort plb session
-------	-------------------

Command Mode

- /exec/configure/plb-session-device-group

absolute-timeout

{ absolute-timeout <i0> | no absolute-timeout [<i0>] }

Syntax Description

no	Negate a command or set its defaults
absolute-timeout	Configure absolute timeout
<i>i0</i>	Enter timeout in minutes, 0 to disable

Command Mode

- /exec/configure/line

absolute start

```
{ [ <seqno> ] | no } absolute { start <stime> <sday> <smonth> <syear> [ end <etime> <eday> <emonth> <eyear> ] | end <etime> <eday> <emonth> <eyear> }
```

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
absolute	Absolute time and date
start	Starting time and date
<i>stime</i>	Starting time
<i>sday</i>	Day of the month
<i>smonth</i>	Month
<i>syear</i>	Year
end	(Optional) Ending time and date
<i>etime</i>	(Optional) Ending time
<i>eday</i>	(Optional) Day of the month
<i>emonth</i>	(Optional) Month
<i>eyear</i>	(Optional) Year

Command Mode

- /exec/configure/timerange

accept-lifetime month_a month_b month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l duration infinite month_a month_b month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l

```
{ { accept-lifetime [ local ] <stime> { month_a | month_b | month_c | month_d | month_e | month_f | month_g | month_h | month_i | month_j | month_k | month_l } <sday> <syear> { duration <dsec> | infinite | <etime> { month_a | month_b | month_c | month_d | month_e | month_f | month_g | month_h | month_i | month_j | month_k | month_l } <eday> <eyear> } } | { no accept-lifetime [ [ local ] <stime> { month_a | month_b | month_c | month_d | month_e | month_f | month_g | month_h | month_i | month_j | month_k | month_l } <sday> <syear> { duration <dsec> | infinite | <etime> { month_a | month_b | month_c | month_d | month_e | month_f | month_g | month_h | month_i | month_j | month_k | month_l } <eday> <eyear> } ] } }
```

Syntax Description

no	Negate a command or set its defaults
accept-lifetime	Set accept lifetime of key
local	(Optional) Specify time in local timezone
<i>stime</i>	HH:MM:SS Time to start <0-23>:<0-59>:<0-59>
<i>etime</i>	HH:MM:SS Time to end <0-23>:<0-59>:<0-59>
month_a	
month_b	
month_c	
month_d	
month_e	
month_f	
month_g	
month_h	
month_i	
month_j	
month_k	
month_l	
<i>sday</i>	Day of the month to start

accept-lifetime month_a month_b month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l duration infinite month_a month_b month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l

<i>eday</i>	Day of the month to end
<i>syear</i>	Year to start
<i>eyear</i>	Year to start
duration	Set key lifetime duration
<i>dsec</i>	Duration in seconds
infinite	Never Expires

Command Mode

- /exec/configure/keychain-key

access-class

[no] access-class <name> <inout>

Syntax Description

no	(Optional) Negate a command or set its defaults
access-class	Specify IPv4 access control for packets
<i>name</i>	List name
<i>inout</i>	Traffic direction

Command Mode

- /exec/configure/line

access-class

```
{ access-class <aclname> } | { no access-class [ <aclname-ignore> ] }
```

Syntax Description

no	Negate a command or set its defaults
access-class	Filter incoming connections based on ACL
<i>aclname</i>	ACL name
<i>aclname-ignore</i>	(Optional) ACL name

Command Mode

- /exe/configure/onep/tls

access-list

[no] access-list <acl-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
access-list	ITD access-list name
<i>acl-name</i>	ITD user ACL name

Command Mode

- /exec/configure/itd

access-list

[no] access-list <acl-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
access-list	Configure access-list for PLB service
<i>acl-name</i>	Access-list name

Command Mode

- /exec/configure/plb

access vlan

[no] access vlan <vlan>

Syntax Description

no	(Optional) Negate a command or set its defaults
access	access
vlan	vlan
<i>vlan</i>	Vlan

Command Mode

- /exec/configure/smartc /exec/configure/smartc

action

[no] action { drop [log] | forward | redirect <intf> }

Syntax Description

no	(Optional) Negate a command or set its defaults
action	Specify the action clause
drop	Drop matched packets
log	(Optional) Log matched packets
forward	Forward matched packets
redirect	Redirect matched packets to the specified interface(s)
<i>intf</i>	Interface traffic is redirected to

Command Mode

- /exec/configure/vacl

action

[no] action <label>

Syntax Description

no	Negate a command or set its defaults
action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9

Command Mode

- /exec/configure/event-manager-applet

action cli

action <label> cli [local] <vsh_cmd>

Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
cli	Configure a VSH CLI action
local	(Optional) Execute the action in the same card on which the event happens
<i>vsh_cmd</i>	Enter the vsh command

Command Mode

- /exec/configure/event-manager-applet

action counter name value op

action <label> counter name <counter-name> value <counter-value> op <op-val>

Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
counter	Specify the name of the counter
name	Specify the name of the counter
<i>counter-name</i>	Name of the counter
value	Specify the value to be applied to the counter
<i>counter-value</i>	Enter an integer value or a \$ prefixed name (parameter substitution)
op	Specify the operator to be applied
<i>op-val</i>	Enter the value of the operator

Command Mode

- /exec/configure/event-manager-applet

action eem test

action <label> eem test <param>

Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
eem	Event Manager command
test	Do test action
<i>param</i>	Test action parameter (dummy value)

Command Mode

- /exec/configure/event-manager-applet

action event-default

action <label> event-default

Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
event-default	Do default action for the event

Command Mode

- /exec/configure/event-manager-applet

action exceptionlog module syserr devid errtype errcode phylayer ports harderror

[no] action <label> exceptionlog module <mod> syserr <syserr> devid <id> errtype <type> errcode <code>
phylayer <phy> ports <list> harderror <hard> [{ desc <str> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
exceptionlog	Exception log
module	Enter a module number
<i>mod</i>	Enter module number (integer value) or a \$ prefixed parameter name
syserr	Enter syserr
<i>syserr</i>	Enter syserr code (hex value) or a \$ prefixed parameter name
devid	Enter device id
<i>id</i>	Enter device id (integer value) or a \$ prefixed parameter name
errtype	Enter error type
<i>type</i>	Error error type (integer value) or a \$ prefixed parameter name
errcode	Enter error code
<i>code</i>	Enter error code (hex value) or a \$ prefixed parameter name
phylayer	Enter phy layer
<i>phy</i>	Enter phy layer (integer value) or a \$ prefixed parameter name
ports	Enter failed ports
<i>list</i>	List of ports. Example: 1,3,7-15
harderror	Irrecoverable error?
<i>hard</i>	Error sub-category
desc	(Optional) Enter error description
<i>str</i>	(Optional) Error description

Command Mode

- /exec/configure/event-manager-applet

action forceshut reset-reason

```
[no] action <label2> forceshut [ { module { <module> | <mod-str> } | <s0> { <santa-cruz-range> | <santa-cruz-string> } } ] reset-reason <reset_reason_string>
```

Syntax Description

no	(Optional) Negate a command or set its defaults
action	Configure the actions to be executed
<i>label2</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
forceshut	Force the entire switch to shut down
module	(Optional) Optional. Module to be forced to shut down(optional argument)
<i>module</i>	(Optional) please enter the module number
<i>mod-str</i>	(Optional) Enter the module number (integer value) or a \$ prefixed parameter name
<i>s0</i>	(Optional) Optional. Xbar to be forced to shut down(optional argument)
<i>santa-cruz-range</i>	(Optional) please enter the xbar number
<i>santa-cruz-string</i>	(Optional) Enter the xbar number (integer value) or a \$ prefixed parameter name
reset-reason	Shut down (with reset-reason)
<i>reset_reason_string</i>	please enter reset_reason_string in quotes

Command Mode

- /exec/configure/event-manager-applet

action overbudgetshut

[no] action <label> overbudgetshut [module { <module> | <mod-str> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
overbudgetshut	Shut down the specified LCs due to power over budget
module	(Optional) Optional. Module to be force-shut(optional arg)
<i>module</i>	(Optional) please enter the module number
<i>mod-str</i>	(Optional) Enter the module number (integer value) or a \$ prefixed parameter name

Command Mode

- /exec/configure/event-manager-applet

action policy-default

action <label> policy-default

Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
policy-default	Do default action(s) of the policy being overridden

Command Mode

- /exec/configure/event-manager-applet

action publish-event sub-system type

```
action <label> publish-event sub-system <sub-system-id> type <event-type> { [ arg1 <data1> ] [ arg2 <data2> ] [ arg3 <data3> ] [ arg4 <data4> ] }
```

Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
publish-event	Publish an application specific event
sub-system	Sub-system ID to which the application event belongs
<i>sub-system-id</i>	Sub-system ID value
type	Event type value
<i>event-type</i>	Event type value
arg1	(Optional) User specified data to be passed when the event is published
<i>data1</i>	(Optional) User specified data value
arg2	(Optional) User specified data to be passed when the event is published
<i>data2</i>	(Optional) User specified data value
arg3	(Optional) User specified data to be passed when the event is published
<i>data3</i>	(Optional) User specified data value
arg4	(Optional) User specified data to be passed when the event is published
<i>data4</i>	(Optional) User specified data value

Command Mode

- /exec/configure/event-manager-applet

action reload

[no] action <label> reload [module { <module> | <mod-str> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
reload	Reload the system or a specific module
module	(Optional) Reload a specific module
<i>module</i>	(Optional) please enter the module number
<i>mod-str</i>	(Optional) Enter the module number (integer value) or a \$ prefixed parameter name

Command Mode

- /exec/configure/event-manager-applet

action snmp-trap

action <label> snmp-trap [intdata1 <integer-data1>] [intdata2 <integer-data2>] [strdata <string-data>]

Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
snmp-trap	Send
intdata1	(Optional) Enter
<i>integer-data1</i>	(Optional) Integer
intdata2	(Optional) Enter
<i>integer-data2</i>	(Optional) Integer
strdata	(Optional) Enter
<i>string-data</i>	(Optional) String

Command Mode

- /exec/configure/event-manager-applet

action syslog msg

action <label> syslog [priority { <prio> | <prio-str> }] msg <msg-text>

Syntax Description

action	Configure the actions to be executed
<i>label</i>	Enter the label <num1>[.<num2>] for action order num2 must be 0-9
syslog	Generate a syslog message
priority	(Optional) Priority of the syslog message
<i>prio</i>	(Optional) Enter the priority
<i>prio-str</i>	(Optional) Enter a valid \$ prefixed name, for parameter substitution
msg	Enter the message for the syslog
<i>msg-text</i>	The message text

Command Mode

- /exec/configure/event-manager-applet

activate

[no] activate

Syntax Description

no	(Optional) Negate a command or set its defaults
activate	Activate configured virtual service

Command Mode

- /exec/configure/virt-serv

activate mode-100M

[no] activate mode-100M

Syntax Description

no	(Optional) Negate a command or set its defaults
activate	Activate new mode
mode-100M	Activate mode-100M

Command Mode

- /exec/configure

activity-timer

```
{ [ no ] activity-timer <seconds> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
activity-timer	Number of seconds where a dynamic-EID is considered active
<i>seconds</i>	Timeout value in seconds

Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

add cli commands

add cli commands <filename>

Syntax Description

add	add
cli	cli
commands	commands
<i>filename</i>	filename

Command Mode

- /exec

additional-paths install backup

[no] additional-paths install backup

Syntax Description

no	(Optional) Negate a command or set its defaults
additional-paths	Additional paths configuration
install	Install backup path
backup	Install backup path

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6
/exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv4

additional-paths receive

[no] additional-paths receive

Syntax Description

no	(Optional) Negate a command or set its defaults
additional-paths	Additional paths configuration
receive	Additional paths Receive capability

Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-ipv4-mvpn
/exec/configure/router-bgp/router-bgp-af-ipv6-mvpn /exec/configure/router-bgp/router-bgp-af-vpn4
/exec/configure/router-bgp/router-bgp-af-vpn6 /exec/configure/router-bgp/router-bgp-af-ipv4-label
/exec/configure/router-bgp/router-bgp-af-ipv6-label /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

additional-paths selection route-map

[no] additional-paths selection route-map <rmap-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
additional-paths	Additional paths configuration
selection	Additional paths selection
route-map	Route-map for additional paths selection
<i>rmap-name</i>	Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-ipv4
/exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-af-ipv6-label
/exec/configure/router-bgp/router-bgp-af-ipv4-mvpn /exec/configure/router-bgp/router-bgp-af-ipv6-mvpn
/exec/configure/router-bgp/router-bgp-af-ipv4-label /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

additional-paths send

[no] additional-paths send

Syntax Description

no	(Optional) Negate a command or set its defaults
additional-paths	Additional paths configuration
send	Additional paths Send capability

Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-vpn4
 /exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-af-ipv6-label
 /exec/configure/router-bgp/router-bgp-af-ipv4-mvpn /exec/configure/router-bgp/router-bgp-af-ipv6-mvpn
 /exec/configure/router-bgp/router-bgp-af-ipv4-label /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

address-family ip address port

[no] { address-family | ip address } <ip4> port <portnum> [protocol <proto> encoding <encoder>]

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Set destination IP address
ip	Set destination IPv4 address
address	IP address
port	Set destination port
protocol	(Optional) Set transport protocol
encoding	(Optional) Set encoding format
<i>ip4</i>	Destination IPv4 Address
<i>portnum</i>	Destination port
<i>proto</i>	(Optional)
<i>encoder</i>	(Optional)

Command Mode

- /exec/configure/telemetry/destination-group

address-family ipv4 labeled-unicast

[no] address-family ipv4 labeled-unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
labeled-unicast	Configure labeled unicast sub-address-family

Command Mode

- /exec/configure/router-bgp

address-family ipv4 labeled-unicast

{ [no | default] } address-family ipv4 labeled-unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
ipv4	Configure IPv4 address-family
labeled-unicast	Configure labeled unicast sub-address-family

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-template-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor

address-family ipv4 mdt

[no] address-family ipv4 mdt

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
mdt	Configure Multicast Distribution Tree

Command Mode

- /exec/configure/router-bgp

address-family ipv4 mdt

{ [no | default] } address-family ipv4 mdt

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
mdt	Configure Multicast Distribution Tree

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-template-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor

address-family ipv4 mvpn

[no] address-family ipv4 mvpn

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
mvpn	Configure Multicast VPN

Command Mode

- /exec/configure/router-bgp

address-family ipv4 mvpn

{ [no | default] } address-family ipv4 mvpn

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
mvpn	Configure Multicast VPN

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-template-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor

address-family ipv4 unicast

[no] address-family ipv4 { unicast | multicast }

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family
multicast	Configure multicast address-family

Command Mode

- /exec/configure/router-bgp

address-family ipv4 unicast

[no] address-family ipv4 { unicast | multicast }

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family
multicast	Configure multicast address-family

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf

address-family ipv4 unicast

{ [no | default] } address-family ipv4 { unicast | multicast }

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
ipv4	Configure IPv4 address-family
unicast	Configure Unicast sub-address-family
multicast	Configure Multicast sub-address-family

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-template-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor

address-family ipv4 unicast

[no | default] address-family ipv4 { unicast | multicast }

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
ipv4	Configure IPv4 address-family
unicast	Configure Unicast sub-address-family
multicast	Configure Multicast sub-address-family

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf-neighbor
- /exec/configure/router-bgp/router-bgp-vrf-prefixneighbor

address-family ipv4 unicast

[no] { address-family ipv4 unicast }

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure Address Family and its parameters
ipv4	Configure IPv4 Address Family parameters
unicast	Unicast

Command Mode

- /exec/configure/mpls_static

address-family ipv4 unicast

[no] address-family ipv4 unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common

address-family ipv4 unicast

[no] address-family ipv4 unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure address family
ipv4	Configure IPv4 address family
unicast	Configure Unicast address family

Command Mode

- /exec/configure/vrf

address-family ipv4 unicast

[no] address-family ipv4 unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

address-family ipv4 unicast

[no] address-family ipv4 unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family

Command Mode

- /exec/configure/router-rip

address-family ipv4 unicast

[no] address-family ipv4 unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv4	Configure IPv4 address-family
unicast	Configure unicast address-family

Command Mode

- /exec/configure/router-rip/router-rip-vrf

address-family ipv6 labeled-unicast

[no] address-family ipv6 labeled-unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
labeled-unicast	Configure labeled unicast sub-address-family

Command Mode

- /exec/configure/router-bgp

address-family ipv6 labeled-unicast

{ [no | default] } address-family ipv6 labeled-unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
ipv6	Configure IPv6 address-family
labeled-unicast	Configure labeled unicast sub-address-family

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-template-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor

address-family ipv6 mvpn

[no] address-family ipv6 mvpn

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
mvpn	Configure Multicast VPN

Command Mode

- /exec/configure/router-bgp

address-family ipv6 mvpn

{ [no | default] } address-family ipv6 mvpn

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
mvpn	Configure Multicast VPN

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-template-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor

address-family ipv6 unicast

[no] address-family ipv6 { unicast | multicast }

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family
multicast	Configure multicast address-family

Command Mode

- /exec/configure/router-bgp

address-family ipv6 unicast

[no] address-family ipv6 { unicast | multicast }

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family
multicast	Configure multicast address-family

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf

address-family ipv6 unicast

{ [no | default] } address-family ipv6 { unicast | multicast }

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
ipv6	Configure IPv6 address-family
unicast	Configure Unicast sub-address-family
multicast	Configure Multicast sub-address-family

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-template-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor

address-family ipv6 unicast

[no | default] address-family ipv6 { unicast | multicast }

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
ipv6	Configure IPv6 address-family
unicast	Configure Unicast sub-address-family
multicast	Configure Multicast sub-address-family

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf-neighbor
- /exec/configure/router-bgp/router-bgp-vrf-prefixneighbor

address-family ipv6 unicast

[no] { address-family ipv6 unicast }

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure Address Family and its parameters
ipv6	Configure IPv6 Address Family parameters
unicast	Unicast

Command Mode

- /exec/configure/mpls_static

address-family ipv6 unicast

[no] address-family ipv6 unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common

address-family ipv6 unicast

[no] address-family ipv6 unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure address family
ipv6	Configure IPv6 address family
unicast	Configure Unicast address family

Command Mode

- /exec/configure/vrf

address-family ipv6 unicast

[no] address-family ipv6 unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

address-family ipv6 unicast

[no] address-family ipv6 unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family

Command Mode

- /exec/configure/router-rip

address-family ipv6 unicast

[no] address-family ipv6 unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure unicast address-family

Command Mode

- /exec/configure/router-rip/router-rip-vrf

address-family ipv6 unicast

[no] address-family ipv6 unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure IPv6 unicast address-family

Command Mode

- /exec/configure/router-ospf3

address-family ipv6 unicast

[no] address-family ipv6 unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
ipv6	Configure IPv6 address-family
unicast	Configure IPv6 unicast address-family

Command Mode

- /exec/configure/router-ospf3/vrf

address-family l2vpn evpn

[no] address-family l2vpn evpn

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
l2vpn	Configure L2VPN address-family
evpn	Configure L2VPN EVPN address-family

Command Mode

- /exec/configure/router-bgp

address-family l2vpn evpn

{ [no | default] } address-family l2vpn evpn

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family
l2vpn	Configure L2VPN address-family
evpn	Configure L2VPN EVPN address-family

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-template-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor

address-family l2vpn vpls

[no] address-family l2vpn vpls

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
l2vpn	Configure L2VPN address-family
vpls	Configure L2VPN VPLS address-family

Command Mode

- /exec/configure/router-bgp

address-family l2vpn vpls

{ [no | default] } address-family l2vpn vpls

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family
l2vpn	Configure L2VPN address-family
vpls	Configure L2VPN VPLS address-family

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-template-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor

address-family link-state

[no] address-family link-state

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
link-state	Configure link-state address-family

Command Mode

- /exec/configure/router-bgp

address-family link-state

{ [no | default] } address-family link-state

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family
link-state	Configure link-state address-family

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-template-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor

address-family vpnv4 unicast

[no] address-family vpnv4 unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
vpnv4	Configure IPv4 VPN address-family
unicast	Configure Unicast sub-address-family

Command Mode

- /exec/configure/router-bgp

address-family vpnv4 unicast

{ [no | default] } address-family vpnv4 unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
vpnv4	Configure IPv4 VPN address-family
unicast	Configure Unicast sub-address-family

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-template-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor

address-family vpnv6 unicast

[no] address-family vpnv6 unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
address-family	Configure an address-family
vpnv6	Configure IPv6 VPN address-family
unicast	Configure Unicast sub-address-family

Command Mode

- /exec/configure/router-bgp

address-family vpnv6 unicast

{ [no | default] } address-family vpnv6 unicast

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
address-family	Configure an address-family for peer
vpnv6	Configure IPv6 VPN address-family
unicast	Configure Unicast sub-address-family

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-template-neighbor /exec/configure/router-bgp/router-bgp-prefixneighbor

address

[no] address <ip_addr> [primary]

Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address
primary	(Optional) Primary Address
<i>ip_addr</i>	IPv4 Address

Command Mode

- /exec/configure/if-eth-any/vrrpv3_ipv4

address

[no] address <ipv6_addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address

Command Mode

- /exec/configure/if-eth-any/vrrpv3_ipv6

address

[no] address <ip_addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address configuration
<i>ip_addr</i>	IP Address

Command Mode

- /exec/configure/if-eth-any/vrrs

address

[no] address <ipv6_addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address configuration

Command Mode

- /exec/configure/if-eth-any/vrrs

address

{ address <ip_address> | no address [<ip_address>] }

Syntax Description

no	Negate a command or set its defaults
address	Add an IP address to the vr
<i>ip_address</i>	ip address

Command Mode

- /exec/configure/if-eth-any/vrrp

address

[no] address <start-ip> <end-ip>

Syntax Description

no	(Optional) Negate a command or set its defaults
address	Address range for the pool
<i>start-ip</i>	Start IP address
<i>end-ip</i>	End IP address

Command Mode

- /exec/configure/ipnat-pool

address port-number

address { <ipv4-addr> | <ipv6-addr> } port-number <port-number> | no address

Syntax Description

no	Negate a command or set its defaults
address	Configure IPv4 or IPv6 address
<i>ipv4-addr</i>	IPv4 address of the BMP server
port-number	Configure the port for the BMP server
<i>port-number</i>	Port number value

Command Mode

- /exec/configure/router-bgp/router-bgp-bmp-server

address primary

[no] address <ipv6_addr> primary

Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address
primary	Primary Address

Command Mode

- /exec/configure/if-eth-any/vrrpv3_ipv6

address secondary

[no] address <ip_addr> secondary

Syntax Description

no	(Optional) Negate a command or set its defaults
address	IP Address
secondary	Secondary Address
<i>ip_addr</i>	IPv4 Address

Command Mode

- /exec/configure/if-eth-any/vrrpv3_ipv4

address secondary

{ address <ip_address> secondary | no address <ip_address> secondary }

Syntax Description

no	Negate a command or set its defaults
address	Add an IP address to the vr
<i>ip_address</i>	ip address
secondary	a virtual IP address without owner

Command Mode

- /exec/configure/if-eth-any/vrrp

adjacency-check

[no] adjacency-check

Syntax Description

no	(Optional) Negate a command or set its defaults
adjacency-check	Adjacency's protocol support consistency check

Command Mode

- /exec/configure/router-isis/router-isis-af-common

adjacency-resolve

[no] adjacency-resolve

Syntax Description

no	(Optional) Negate a command or set its defaults
adjacency-resolve	Resolve L3->L2 address for ISIS adjacency

Command Mode

- /exec/configure/router-isis

advertise-labels

```
[no] advertise-labels [ vrf { <vrf-name> | <vrf-known-name> } ] [ [ for <pfx-list> [ to <peer-pfx-list> ] ] ] [ interface <intf> ] ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
advertise-labels	Label advertisements
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
for	(Optional) Prefix list specifying controls on destination prefixes
<i>pfx-list</i>	(Optional) Name of prefix list
to	(Optional) Prefix list specifying controls on LDP peers
<i>peer-pfx-list</i>	(Optional) Name of prefix list
interface	(Optional) Advertise /32 interface address
<i>intf</i>	(Optional)

Command Mode

- /exec/configure/ldp

advertise-map exist default advertise-map

```
{ [ no ] advertise-map <advrt-rmap-name> { exist-map | non-exist-map } <cond-rmap-name> } | default
advertise-map
```

Syntax Description

no	(Optional) Negate a command or set its defaults
default	Inherit values from a peer template
advertise-map	Specify route-map for conditional advertisement
exist-map	Condition route-map to advertise only when prefix in condition exists
non-exist-map	Condition route-map to advertise only when prefix in condition does not exist
<i>advrt-rmap-name</i>	Route-map name
<i>cond-rmap-name</i>	Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

advertise-pip

[no] advertise-pip

Syntax Description

no	(Optional) Negate a command or set its defaults
advertise-pip	advertise physical ip for type-5 route

Command Mode

- /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

advertise-system-mac

[no] advertise-system-mac

Syntax Description

no	(Optional) Negate a command or set its defaults
advertise-system-mac	Advertise extra EVPN RT-2 with system MAC

Command Mode

- /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

advertise evpn multicast

[no] advertise evpn multicast

Syntax Description

no	(Optional) Negate a command or set its defaults
advertise	Advertise L2 multicast capability
evpn	evpn
multicast	L2 multicast

Command Mode

- /exec/configure

advertise l2vpn evpn

[no] advertise l2vpn evpn

Syntax Description

no	(Optional) Negate a command or set its defaults
advertise	Configure advertise for this AF
l2vpn	L2VPN
evpn	EVPN

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6

advertise virtual-rmac

[no] advertise virtual-rmac

Syntax Description

no	(Optional) Negate a command or set its defaults
advertise	Reachability advertisement
virtual-rmac	Advertise virtual RMAC capability

Command Mode

- /exec/configure/if-nve

advertisement-interval

[no] advertisement-interval <adv-sec>

Syntax Description

no	(Optional) Negate a command or set its defaults
advertisement-interval	Minimum interval between sending BGP routing updates
<i>adv-sec</i>	Time in seconds

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6

advertisement-interval

{ advertisement-interval <interval_time> | no advertisement-interval [<interval_time>] }

Syntax Description

no	Negate a command or set its defaults
advertisement-interval	Set the time interval between advertisement
<i>interval_time</i>	Time interval (in seconds) between advertisements

Command Mode

- /exec/configure/if-eth-any/vrrp

afd queue-desired

[no] afd queue-desired <q-desired> { bytes | kbytes | mbytes } [ecn]

Syntax Description

no	(Optional) Negate a command or set its defaults
afd	Configure AFD parameters
queue-desired	Specify Queue Desired for AFD
bytes	Bytes
kbytes	Kilo bytes
mbytes	Mega bytes
ecn	(Optional) ECN

Command Mode

- /exec/configure/policy-map/type/queuing/class

affinity-group

```
{ affinity-group <affinity_group_id> } | { { no | default } affinity-group [ <affinity_group_id> ] }
```

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
affinity-group	Configure an affinity group
<i>affinity_group_id</i>	Affinity Group ID

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

affinity-group activate

affinity-group activate <affinity_group_id> | no affinity-group activate [<affinity_group_id>]

Syntax Description

no	Negate a command or set its defaults
affinity-group	Configure an affinity group
activate	Activate the affinity group
<i>affinity_group_id</i>	AFFINITY Group ID

Command Mode

- /exec/configure/router-bgp

affinity

[no] affinity | affinity <hex_value> [mask <mask_value>]

Syntax Description

no	Negate a command or set its defaults
affinity	Specify attribute flags for links comprising LSP
<i>hex_value</i>	affinity value
mask	(Optional) mask on desired link attributes
<i>mask_value</i>	(Optional) affinity mask value

Command Mode

- /exec/configure/te/lsp-attr

affinity

[no] affinity | affinity <value> [mask <mask-value>]

Syntax Description

no	Negate a command or set its defaults
affinity	desired link attributes for links comprising tunnel
<i>value</i>	affinity value
mask	(Optional) mask on desired link attributes
<i>mask-value</i>	(Optional) affinity mask value

Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

aggregate-address

[no] aggregate-address { <ip-addr> <ip-mask> | <ip-prefix> } [as-set | summary-only | suppress-map <suppress-rmap> | advertise-map <advertise-rmap> | attribute-map <attribute-rmap>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
aggregate-address	Configure BGP aggregate prefixes
<i>ip-addr</i>	Aggregate address
<i>ip-mask</i>	Aggregate mask
<i>ip-prefix</i>	Aggregate prefix
summary-only	(Optional) Don't advertise more specifics
as-set	(Optional) Generate AS-SET information
suppress-map	(Optional) Conditionally filter more specific routes
advertise-map	(Optional) Select attribute information from specific routes
attribute-map	(Optional) Set attribute information of aggregate
<i>advertise-rmap</i>	(Optional) Route-map name
<i>suppress-rmap</i>	(Optional) Route-map name
<i>attribute-rmap</i>	(Optional) Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv4

aggregate-address

[no] aggregate-address <ipv6-prefix> [as-set | summary-only | suppress-map <suppress-rmap> | advertise-map <advertise-rmap> | attribute-map <attribute-rmap>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
aggregate-address	Configure BGP aggregate IPv6 prefixes
as-set	(Optional) Generate AS-SET information
summary-only	(Optional) Don't advertise more specifics
suppress-map	(Optional) Conditionally filter more specific routes
advertise-map	(Optional) Select attribute information from specific routes
attribute-map	(Optional) Set attribute information of aggregate
<i>advertise-rmap</i>	(Optional) Route-map name
<i>suppress-rmap</i>	(Optional) Route-map name
<i>attribute-rmap</i>	(Optional) Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6

alert-group user-def-cmd

[no] alert-group { Configuration | Diagnostic | Environmental | Inventory | License | Linecard-Hardware | Supervisor-Hardware | Syslog-group-port | System | Test } user-def-cmd <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
alert-group	alert group
user-def-cmd	configure a cli command for an alert group
s0	A valid CLI command
Environmental	Power,fan,temperature related events
Inventory	Inventory status events
License	Events related to licensing
Linecard-Hardware	Linecard related events
Supervisor-Hardware	Supervisor related events
Syslog-group-port	Events related to syslog messages filed by port manager
System	Software related events
Test	User generated test events
Configuration	Events related to Configuration
Diagnostic	Events related to Diagnostic

Command Mode

- /exec/configure/callhome

allocate-label all

[no] allocate-label { all | route-map <rmap-name> }

Syntax Description

no	(Optional) Negate a command or set its defaults
allocate-label	Configure label allocation for this AF
all	Allocate labels for all routes
route-map	Allocate labels for selected routes
<i>rmap-name</i>	Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6 /exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-af-ipv4

allocate-label option-b

[no] allocate-label option-b

Syntax Description

no	(Optional) Negate a command or set its defaults
allocate-label	Allow allocation of labels
option-b	Allow allocation of option B labels

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-af-ipv6

allocate1 interface2

```
allocate1 interface2 { <interface-id> [ force ] | unallocated-interfaces }
```

Syntax Description

allocate1	Assign interfaces to vdc
interface2	Assign interface range to vdc
<i>interface-id</i>	Assign interface range to vdc
force	(Optional) force
unallocated-interfaces	Best-effort trying to move all interfaces in the unallocated pool into this vdc

Command Mode

- /exec/configure/vdc

allocate2 fcoe-vlan-range

```
{ allocate2 fcoe-vlan-range [ <vlan_range> ] [ from vdc <vdc_names> ] } | { no allocate2 fcoe-vlan-range
[ <vlan_range> | { from vdc <vdc_names> } ] }
```

Syntax Description

no	Negate a command or set its defaults
allocate2	Assign interfaces to vdc
fcoe-vlan-range	vlan reserved for FCoE
<i>vlan_range</i>	(Optional) vlans reserved for FCoE
from	(Optional) which vdc will be sharing ports with the FCoE vdc
vdc	(Optional) which vdc will be sharing ports with the FCoE vdc
<i>vdc_names</i>	(Optional) which vdc will be sharing porst with the FCoE vdc

Command Mode

- /exec/configure/vdc

allocate3 shared interface3

[no] allocate3 shared interface3 <sinterface-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
allocate3	Assign interfaces to vdc
interface3	Assign interface range to vdc
<i>sinterface-id</i>	Assign interface range to vdc
shared	Shared this port using the reserved FCoE vlans

Command Mode

- /exec/configure/vdc

allow-vni-in-ethertag

[no] allow-vni-in-ethertag

Syntax Description

no	(Optional) Negate a command or set its defaults
allow-vni-in-ethertag	Allow VNI in Ethernet Tag field in EVPN route

Command Mode

- /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

allow delete boot-image

[no] allow delete boot-image [retain]

Syntax Description

no	(Optional) Negate a command or set its defaults
allow	allow kickstart or system image to be deleted
delete	allow delete or overwrite of image file
boot-image	image file
retain	(Optional) retain this command after reboot

Command Mode

- /exec

allow feature-set

[no] allow feature-set <fs>

Syntax Description

no	(Optional) Negate a command or set its defaults
allow	Used to change permissions inside a vdc
feature-set	Change which feature-sets the user is able to enable inside the vdc
<i>fs</i>	installed feature-sets

Command Mode

- /exec/configure/vdc

allowas-in

[no | default] allowas-in [<allowas-in-cnt>]

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
allowas-in	Accept as-path with my AS present in it
<i>allowas-in-cnt</i>	(Optional) Number of occurrences of AS number, default is 3

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv4
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-link-state
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn

allowas-in

[no | default] allowas-in [<allowas-in-cnt>]

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
allowas-in	Accept as-path with my AS present in it
<i>allowas-in-cnt</i>	(Optional) Number of occurrences of AS number, default is 3

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls

allowed-locators

```
{ [ no ] allowed-locators { <rloc> | <rloc6> } + }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
allowed-locators	List of locators from LISP site
<i>rloc</i>	IPv4 locator allowed in registered locator-set

Command Mode

- /exec/configure/lisp-site /exec/configure/vrf/lisp-site

allowed-vlans

allowed-vlans { <allow-vlans> | add <add-vlans> | except <except-vlans> | remove <remove-vlans> | all }

Syntax Description

allowed-vlans	Set list of allowed vlans that can be used for interface configuration
<i>allow-vlans</i>	VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
add	add VLANs to the current list
<i>add-vlans</i>	VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
except	all VLANs except the following
<i>except-vlans</i>	VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
remove	remove VLANs from the current list
<i>remove-vlans</i>	VLAN ID 1-4094 or range(s) like: 1-5, 10 or 2-5,7-19
all	all VLANs

Command Mode

- /exec/configure/vmt-conn

amt flush-routes

[no] amt flush-routes

Syntax Description

no	(Optional) Negate a command or set its defaults
amt	AMT global configuration commands
flush-routes	Remove routes when restarting AMT

Command Mode

- /exec/configure /exec/configure/vrf

amt pseudo-interface

```
{ { amt pseudo-interface <interface> } | { no amt pseudo-interface [ <interface> ] } }
```

Syntax Description

no	Negate a command or set its defaults
amt	AMT global configuration commands
pseudo-interface	Tunnel to relay for forwarding IGMP/MLD messages
<i>interface</i>	Interface name to be used for AMT pseudo interface

Command Mode

- /exec/configure /exec/configure/vrf

analytics cluster

[no] analytics cluster <clustername> [vrf <vrfName>] [srcIf <src_intf>]

Syntax Description

no	(Optional) Negate a command or set its defaults
analytics	Feature Analytics
cluster	Analytics cluster
<i>clustername</i>	Cluster name
vrf	(Optional) VRF Name
<i>vrfName</i>	(Optional) VRF name
srcIf	(Optional) Source Interface
<i>src_intf</i>	(Optional) Source Interface

Command Mode

- /exec/configure

anonymous-id

```
{ [ no ] anonymous-id <id> }
```

Syntax Description

anonymous-id	anonymous identity associated with this profile
<i>id</i>	identity name

Command Mode

- /exec/configure/dot1x-cred

append-after next

```
append-after <index> { next-address [ loose | strict ] <ipaddr> | exclude-address <ipaddr> }
```

Syntax Description

append-after	Append additional entry after specified index
<i>index</i>	Previous index number
next-address	Specify the next address in the path
loose	(Optional) Target address is loose
strict	(Optional) Target address is strict
exclude-address	Exclude an address from subsequent partial path segments
<i>ipaddr</i>	Enter IP address (A.B.C.D)

Command Mode

- /exec/configure/te/expl-path

apply profile

[no] apply profile { <all_conf_profile_name> } [include-profile <include-profile>] [{ param-instance <plistinst> | include-instance <plistinst> } +]

Syntax Description

no	(Optional) Negate a command or set its defaults
apply	Apply a config-profile
profile	Apply a config-profile
<i>all_conf_profile_name</i>	Enter the name of the profile
param-instance	(Optional) Enter the name of the param-instance
<i>plistinst</i>	(Optional) Enter the name of the instance
include-profile	(Optional) Enter the name of the include profile
<i>include-profile</i>	(Optional) Enter the name of the include profile
include-instance	(Optional) Enter the param-instance corresponding to the first included profile
<i>plistinst</i>	(Optional) Enter the name of the include instance

Command Mode

- /exec/configure

area authentication

[no] area <area-id-ip> authentication [message-digest]

Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
authentication	Enable authentication for the area
message-digest	(Optional) Use message-digest authentication

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

area authentication

```
area <area-id-ip> authentication { disable | ipsec spi <spi_id> { md5 <akey> | sha1 <akey> } } | no area
<area-id-ip> authentication { disable | ipsec spi <spi_id> }
```

Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
authentication	Enable Authentication
disable	Disable Authentication
ipsec	IPSec
spi	Security Parameter Index
<i>spi_id</i>	SPI Value
md5	Use the MD5 algorithm
<i>akey</i>	Authentication Key
sha1	Use the SHA1 algorithm
<i>akey</i>	Authentication Key

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

area default-cost

```
{ { area <area-id-ip> default-cost <cost> } | { no area <area-id-ip> default-cost [ <cost> ] } }
```

Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
default-cost	Specify default-cost for default summary LSA
<i>cost</i>	Cost value

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

area default-cost

```
{ { area <area-id-ip> default-cost <cost> } | { no area <area-id-ip> default-cost [ <cost> ] } }
```

Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
default-cost	Specify default-cost for default inter-area-prefix LSA
<i>cost</i>	Cost value

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

area filter-list route-map in

```
{ area <area-id-ip> filter-list route-map { <policy-name> | <rtr_pol_name> } { in | out } } | { no area
<area-id-ip> filter-list route-map { <policy-name> | <rtr_pol_name> } [ in | out ] }
```

Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas
route-map	Name of filter policy
<i>policy-name</i>	Route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy
in	Filter networks sent to this area
out	Filter networks sent from this area

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

area filter-list route-map in

```
{ area <area-id-ip> filter-list route-map { <policy-name> | <rtr_pol_name> } { in | out } } | { no area
<area-id-ip> filter-list route-map { <policy-name> | <rtr_pol_name> } [ in | out ] }
```

Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
filter-list	Filter prefixes between OSPF areas
route-map	Name of filter policy
<i>policy-name</i>	Route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy
in	Filter networks sent to this area
out	Filter networks sent from this area

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

area nssa

[no] area <area-id-ip> nssa { [no-summary] [no-redistribution] [default-information-originate [route-map <policy-name>]] } +

Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
nssa	Configure area as NSSA
no-summary	(Optional) Do not send summary LSAs into NSSA area
no-redistribution	(Optional) Do not send redistributed LSAs into NSSA area
default-information-originate	(Optional) Originate Type-7 default LSA into NSSA area
route-map	(Optional) Policy to control distribution of default route
<i>policy-name</i>	(Optional) Route-map name

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

area nssa

[no] area <area-id-ip> nssa { [no-summary] [no-redistribution] [default-information-originate [route-map <policy-name>]] } +

Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
nssa	Configure area as NSSA
no-summary	(Optional) Do not send summary LSAs into NSSA area
no-redistribution	(Optional) Do not send redistributed LSAs into NSSA area
default-information-originate	(Optional) Originate Type-7 default LSA into NSSA area
route-map	(Optional) Policy to control distribution of default route
<i>policy-name</i>	(Optional) Route-map name

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

area nssa translate type7 always never supress-fa

```
{ area <area-id-ip> nssa translate type7 { always [ supress-fa ] | never | supress-fa } } | { no area <area-id-ip>
nssa translate type7 [ always [ supress-fa ] | never | supress-fa ] }
```

Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
nssa	Configure area as NSSA
translate	Translate LSA
type7	From Type 7 to Type 5
always	Always translate LSAs
never	Never translate LSAs
supress-fa	(Optional) Supress forwarding address in translated LSAs

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

area nssa translate type7 always never supress-fa

```
{ area <area-id-ip> nssa translate type7 { always [ supress-fa ] | never | supress-fa } } | { no area <area-id-ip>
nssa translate type7 [ always [ supress-fa ] | never | supress-fa ] }
```

Syntax Description

no	Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
nssa	Configure area as NSSA
translate	Translate LSA
type7	From NSSA-external (Type 7) to AS-external (Type 5)
always	Always translate LSAs
never	Never translate LSAs
supress-fa	(Optional) Supress forwarding address in translated LSAs

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

area range

```
[no] area <area-id-ip> range { <ip-dest> <ip-mask> | <ip-prefix> } { [ not-advertise ] [ cost <conf-cost> ] }
```

+

Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
range	Configure an address range for an area
<i>ip-dest</i>	IP prefix format: i.i.i.i
<i>ip-mask</i>	IP network mask format: m.m.m.m
<i>ip-prefix</i>	IP prefix format: x.x.x.x/ml
not-advertise	(Optional) Suppress advertising the specified range
cost	(Optional) Cost to use for range
<i>conf-cost</i>	(Optional) Cost value

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

area range

[no] area <area-id-ip> range <ipv6-prefix> { [not-advertise] [cost <conf-cost>] } +

Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
range	Configure an address range for an area
not-advertise	(Optional) Suppress advertising the specified range
cost	(Optional) Cost to use for range
<i>conf-cost</i>	(Optional) Cost value

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

area sham-link

[no] area <area-id-ip> sham-link <source-address> <dest-address>

Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
sham-link	Define a sham link and its parameters
<i>source-address</i>	IP addr associated with sham-link source
<i>dest-address</i>	IP addr associated with sham-link destination

Command Mode

- /exec/configure/router-ospf/vrf

area stub

[no] area <area-id-ip> stub [no-summary]

Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
stub	Configure area as a stub
no-summary	(Optional) Prevent ABR from sending summary LSAs into stub area

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

area stub

[no] area <area-id-ip> stub [no-summary]

Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
stub	Configure area as a stub
no-summary	(Optional) Prevent ABR from sending summary LSAs into stub area

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

area virtual-link

[no] area <area-id-ip> virtual-link <routerid>

Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
virtual-link	Define a virtual link and its parameters
<i>routerid</i>	Router ID associated with virtual link neighbor

Command Mode

- /exec/configure/router-ospf

area virtual-link

[no] area <area-id-ip> virtual-link <routerid>

Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
virtual-link	Define a virtual link and its parameters
<i>routerid</i>	Router ID associated with virtual link neighbor

Command Mode

- /exec/configure/router-ospf/vrf

area virtual-link

[no] area <area-id-ip> virtual-link <routerid>

Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
virtual-link	Define a virtual link and its parameters
<i>routerid</i>	Router ID associated with virtual link neighbor

Command Mode

- /exec/configure/router-ospf3

area virtual-link

[no] area <area-id-ip> virtual-link <routerid>

Syntax Description

no	(Optional) Negate a command or set its defaults
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address
virtual-link	Define a virtual link and its parameters
<i>routerid</i>	Router ID associated with virtual link neighbor

Command Mode

- /exec/configure/router-ospf3/vrf

arp access-list

[no] arp access-list <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
arp	ARP access-list configuration commands
access-list	Configure access list
<i>name</i>	List name

Command Mode

- /exec/configure

as-format asdot

as-format asdot | no as-format

Syntax Description

no	Negate a command or set its defaults
as-format	Configure the router's Autonomous system number (ASN) notation
asdot	Specifies the Autonomous system number (ASN) notation to asdot format

Command Mode

- /exec/configure

as-override

[no | default] as-override

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
as-override	Override matching AS-number while sending update

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv4
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

attach console module

attach console module <module>

Syntax Description

attach	Connect to a specific linecard
console	Connect to the console
module	Connect to the module console
<i>module</i>	Enter module number

Command Mode

- /exec

attach module

attach module <module>

Syntax Description

attach	Connect to a specific linecard
module	Module number of the linecard
<i>module</i>	Enter module number

Command Mode

- /exec

attach module node

attach module <module> node <i0>

Syntax Description

attach	Connect to a specific linecard
module	Module number of the linecard
<i>module</i>	Enter module number
node	Avanti node number on the linecard
<i>i0</i>	

Command Mode

- /exec

attach module port

attach module <module> port <i0>

Syntax Description

attach	Connect to a specific linecard
module	Module number of the linecard
<i>module</i>	Enter module number
port	Port number on the linecard
<i>i0</i>	

Command Mode

- /exec

auth-mechanism plain

[no] auth-mechanism { plain }

Syntax Description

no	(Optional) Negate a command or set its defaults
auth-mechanism	Set the authentication mechanism
plain	Set the authentication mechanism as plain(default)

Command Mode

- /exec/configure/ldap

authentication-check

[no] authentication-check

Syntax Description

no	(Optional) Negate a command or set its defaults
authentication-check	Check authentication on received LSP/CSNP/PSNP's

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

authentication-check level-1

[no] authentication-check level-1

Syntax Description

no	(Optional) Negate a command or set its defaults
authentication-check	Check authentication on received LSP/CSNP/PSNP's
level-1	Specify authentication check for level-1 LSP, CSNP and PSNP

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

authentication-check level-2

[no] authentication-check level-2

Syntax Description

no	(Optional) Negate a command or set its defaults
authentication-check	Check authentication on received LSP/CSNP/PSNP's
level-2	Specify authentication check for level-2 LSP, CSNP and PSNP

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

authentication-key

{ { authentication-key <key> } | { no authentication-key [<key>] } }

Syntax Description

no	Negate a command or set its defaults
authentication-key	Configure the authentication key for the virtual-link
<i>key</i>	Authentication key

Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

authentication-key

```
{ { authentication-key <key> } | { no authentication-key [ <key> ] } }
```

Syntax Description

no	Negate a command or set its defaults
authentication-key	Configure the authentication key for the sham-link
<i>key</i>	Authentication key

Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

authentication-key

{ [no] authentication-key <key> }

Syntax Description

no	(Optional) Negate a command or set its defaults
authentication-key	Authentication key used by LISP site
<i>key</i>	SHA-1 password

Command Mode

- /exec/configure/lisp-site /exec/configure/vrf/lisp-site

authentication-type cleartext

```
{ authentication-type { cleartext | md5 } | no authentication-type [ { cleartext | md5 } ] }
```

Syntax Description

no	Negate a command or set its defaults
authentication-type	Set authentication type
cleartext	Cleartext
md5	HMAC-MD5

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

authentication-type cleartext

```
{ authentication-type { cleartext | md5 } <level> | no authentication-type [ { cleartext | md5 } ] <level> }
```

Syntax Description

no	Negate a command or set its defaults
authentication-type	Set authentication type
cleartext	Cleartext
md5	HMAC-MD5
<i>level</i>	IS-IS level

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

authentication

```
authentication { { md5 { { key-chain <word-chain> } | { key-string [ encrypted ] <word-string> } } } | { text
<word-text> } } | no authentication
```

Syntax Description

no	Negate a command or set its defaults
authentication	Configure authentication
md5	MD5 authentication
key-chain	MD5 Key-chain authentication
<i>word-chain</i>	MD5 authentication key-chain
key-string	MD5 keyed authentication
encrypted	(Optional) Specifies an encrypted key will follow
<i>word-string</i>	MD5 authentication key
text	Plain text authentication
<i>word-text</i>	Plain text

Command Mode

- /exec/configure/if-eth-any/glbp

authentication

[no] authentication [message-digest | null]

Syntax Description

no	(Optional) Negate a command or set its defaults
authentication	Authentication on the vlink
message-digest	(Optional) Use message-digest authentication
null	(Optional) Use null(disable) authentication

Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

authentication

[no] authentication [message-digest | null]

Syntax Description

no	(Optional) Negate a command or set its defaults
authentication	Authentication on the slink
message-digest	(Optional) Use message-digest authentication
null	(Optional) Use null(disable) authentication

Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

authentication

```
authentication { [ text ] <secret> | md5 { key-chain <chain-name> | key-string [ 0 | 7 ] <key-name> [
compatibility ] [ timeout <sec> ] } } | no authentication
```

Syntax Description

no	Negate a command or set its defaults
authentication	Authentication
text	(Optional) Plain text authentication
<i>secret</i>	Plain text authentication string
md5	Use MD5 authentication
key-chain	Set key chain
<i>chain-name</i>	Name of key-chain
key-string	Set key string
0	(Optional) Specifies an UNENCRYPTED key string will follow
7	(Optional) Specifies a HIDDEN key string will follow
<i>key-name</i>	Key string (64 chars max)
compatibility	(Optional) Operate in compatibility mode for MD5 type-7 authentication
timeout	(Optional) Set timeout
<i>sec</i>	(Optional) (0-32767)Timeout until only accepting new key (seconds)

Command Mode

- /exec/configure/if-eth-any/hsrp_ipv4 /exec/configure/if-eth-any/hsrp_ipv6

authentication

```
[no] authentication { { key-chain <chain> } | { mode md5 } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
authentication	Configures EIGRP authentication subcommands
key-chain	key-chain
<i>chain</i>	name of key-chain
mode	mode
md5	Keyed message digest

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

authentication

authentication { ipsec spi <spi_id> { md5 <akey> | sha1 <akey> } } | no authentication ipsec spi <spi_id>

Syntax Description

no	Negate a command or set its defaults
authentication	Enable Authentication
ipsec	IPSec
spi	Security Parameter Index
<i>spi_id</i>	SPI Value
md5	Use the MD5 algorithm
<i>akey</i>	Authentication Key
sha1	Use the SHA1 algorithm
<i>akey</i>	Authentication Key

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

authentication

authentication { disable | ipsec spi <spi_id> { md5 <akey> | sha1 <akey> } } | no authentication { disable | ipsec spi <spi_id> }

Syntax Description

no	Negate a command or set its defaults
authentication	Enable Authentication
disable	Disable Authentication
ipsec	IPSec
spi	Security Parameter Index
<i>spi_id</i>	SPI Value
md5	Use the MD5 algorithm
<i>akey</i>	Authentication Key
sha1	Use the SHA1 algorithm
<i>akey</i>	Authentication Key

Command Mode

- /exec/configure/router-ospf3/router-ospf3-vlink /exec/configure/router-ospf3/vrf/router-ospf3-vlink

authentication bind

[no] authentication { bind-first [append-with-basedn <s1>] | compare [password-attribute <s0>] }

Syntax Description

no	(Optional) Negate a command or set its defaults
authentication	Set the authentication method
bind-first	Set the authentication method to bind-first
append-with-basedn	(Optional) Change the default value (cn=\$userid)
<i>s1</i>	(Optional) append with dn value
compare	Change the default attribute
password-attribute	(Optional) Change the default password attribute (userPassword)
<i>s0</i>	(Optional) password attribute

Command Mode

- /exec/configure/ldap

authentication challenge

[no] authentication [neighbor <nbr>] challenge

Syntax Description

authentication	Configure RSVP neighbor cryptographic authentication
neighbor	(Optional) Configure RSVP neighbor
<i>nbr</i>	(Optional) RSVP Neighbor address
challenge	Perform challenge/response handshake with new RSVP neighbors

Command Mode

- /exec/configure/ip-rsvp

authentication key-chain

```
{ authentication key-chain <keychain> } | { no authentication key-chain [ <keychain> ] }
```

Syntax Description

no	Negate a command or set its defaults
authentication	Authentication on the vlink
key-chain	Authentication password key-chain
<i>keychain</i>	Key-chain name

Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

authentication key-chain

{ authentication key-chain <keychain> } | { no authentication key-chain [<keychain>] }

Syntax Description

no	Negate a command or set its defaults
authentication	Authentication on the slink
key-chain	Authentication password key-chain
<i>keychain</i>	Key-chain name

Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

authentication key-chain

```
{ authentication key-chain <auth-keychain> | no authentication key-chain [ <auth-keychain> ] }
```

Syntax Description

no	Negate a command or set its defaults
authentication	Set authentication keychain string
key-chain	Set authentication keychain string
<i>auth-keychain</i>	authentication keychain

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

authentication key-chain

```
{ authentication key-chain <auth-keychain> <level> | no authentication key-chain [ <auth-keychain> ] <level>
}
```

Syntax Description

no	Negate a command or set its defaults
authentication	Set authentication keychain string
key-chain	Set authentication keychain string
<i>auth-keychain</i>	authentication keychain
<i>level</i>	IS-IS level

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

authentication key-chain

authentication [neighbor <nbr>] key-chain <key-chain-name> | no authentication [neighbor <nbr>] key-chain

Syntax Description

authentication	Configure RSVP neighbor cryptographic authentication
neighbor	(Optional) Configure RSVP neighbor
<i>nbr</i>	(Optional) RSVP Neighbor address
key-chain	Authentication password key-chain
<i>key-chain-name</i>	Key-chain name

Command Mode

- /exec/configure/ip-rsvp

authentication lifetime

[no] authentication [neighbor <nbr>] lifetime <time>

Syntax Description

authentication	Configure RSVP neighbor cryptographic authentication
neighbor	(Optional) Configure RSVP neighbor
<i>nbr</i>	(Optional) RSVP Neighbor address
lifetime	Maximum lifetime of neighbor authentication state
<i>time</i>	Lifetime value(in seconds)

Command Mode

- /exec/configure/ip-rsvp

authentication text

```
{ authentication text <authentication_pwd> | no authentication [ text <authentication_pwd> ] }
```

Syntax Description

no	Negate a command or set its defaults
authentication	Select authentication method
text	Set the authentication password (8 char max)
<i>authentication_pwd</i>	

Command Mode

- /exec/configure/if-eth-any/vrrp

authentication type md5

[no] authentication [neighbor <nbr>] type { md5 | sha-1 }

Syntax Description

authentication	Configure RSVP neighbor cryptographic authentication
neighbor	(Optional) Configure RSVP neighbor
<i>nbr</i>	(Optional) RSVP Neighbor address
type	Type of authentication algorithm
md5	RSA Message Digest 5 hash algorithm (default)
sha-1	NIST Secure Hash Algorithm 1

Command Mode

- /exec/configure/ip-rsvp

authentication window-size

[no] authentication [neighbor <nbr>] window-size <value>

Syntax Description

authentication	Configure RSVP neighbor cryptographic authentication
neighbor	(Optional) Configure RSVP neighbor
<i>nbr</i>	(Optional) RSVP Neighbor address
window-size	Receive window size for authenticated messages
<i>value</i>	Maximum number of messages allowed in receive window

Command Mode

- /exec/configure/ip-rsvp

auto-bw

[no] auto-bw | auto-bw [{ [collect-bw | frequency <sec>] + } | { [frequency <sec> | min-bw <min-kbps> | max-bw <max-kbps>] + }]

Syntax Description

no	Negate a command or set its defaults
auto-bw	Specify automatic bandwidth configuration
collect-bw	(Optional) Just collect bandwidth info
frequency	(Optional) frequency to change LSP bandwidth
<i>sec</i>	(Optional) seconds between applying auto-bw
max-bw	(Optional) Set the maximum bandwidth for auto-bw
<i>max-kbps</i>	(Optional) Maximum bandwidth to apply (kbps)
min-bw	(Optional) Set the minimum bandwidth for auto-bw
<i>min-kbps</i>	(Optional) Minimum bandwidth to apply (kbps)

Command Mode

- /exec/configure/te/lsp-attr

auto-bw

[no] auto-bw | auto-bw [{ [collect-bw | frequency <sec>] + } | { [frequency <sec> | min-bw <min-kbps> | max-bw <max-kbps>] + }]

Syntax Description

no	Negate a command or set its defaults
auto-bw	Specify mpls tunnel should automatically change bw
collect-bw	(Optional) Just collect Bandwidth info on this tunnel
frequency	(Optional) Frequency to change tunnel BW
<i>sec</i>	(Optional) seconds between applying auto-bw
max-bw	(Optional) Set the Maximum Bandwidth for auto-bw on this tunnel
<i>max-kbps</i>	(Optional) Maximum kb/s that tunnel can be auto set to
min-bw	(Optional) Set the Minimum Bandwidth for auto-bw on this tunnel
<i>min-kbps</i>	(Optional) Min kb/s that tunnel can be auto set to

Command Mode

- /exec/configure/if-te

auto-bw timers frequency

[no] auto-bw timers { frequency } | auto-bw timers { frequency <sec> }

Syntax Description

no	Negate a command or set its defaults
auto-bw	auto-bw parameters
timers	Enable auto-bw timers
frequency	Interval between auto-bw data collection
<i>sec</i>	Seconds between auto-bw data collection

Command Mode

- /exec/configure/te

auto-cost reference-bandwidth

auto-cost reference-bandwidth { <ref-bw-mbps> [Mbps] | <ref-bw-gbps> Gbps } | no auto-cost reference-bandwidth [<ref-bw-mbps> [Mbps] | <ref-bw-gbps> Gbps]

Syntax Description

no	Negate a command or set its defaults
auto-cost	Calculate OSPF cost according to bandwidth
reference-bandwidth	Reference bandwidth used to assign OSPF cost
Mbps	(Optional) Specify rate in Mbps
Gbps	Specify rate in Gbps
<i>ref-bw-mbps</i>	Rate in Mbps (bandwidth) (Default)
<i>ref-bw-gbps</i>	Rate in Gbps (bandwidth)

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

auto-cost reference-bandwidth

auto-cost reference-bandwidth { <ref-bw-mbps> [Mbps] | <ref-bw-gbps> Gbps } | no auto-cost reference-bandwidth [<ref-bw-mbps> [Mbps] | <ref-bw-gbps> Gbps]

Syntax Description

no	Negate a command or set its defaults
auto-cost	Calculate OSPFv3 cost according to bandwidth
reference-bandwidth	Reference bandwidth used to assign OSPFv3 cost
Mbps	(Optional) Specify rate in Mbps
Gbps	Specify rate in Gbps
<i>ref-bw-mbps</i>	Rate in Mbps (bandwidth) (Default)
<i>ref-bw-gbps</i>	Rate in Gbps (bandwidth)

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

auto-recovery

auto-recovery [reload-delay <time-out>] | no auto-recovery [reload-delay <time-out>]

Syntax Description

no	Negate a command or set its defaults
auto-recovery	vPC settings to enable auto recovery if peer is presumed non-operational
reload-delay	(Optional) Duration to wait before assuming peer dead and restoring vpcs
<i>time-out</i>	(Optional) Time-out for restoring vPC links (in seconds)

Command Mode

- /exec/configure/vpc-domain

auto-remap-replication-servers

[no] auto-remap-replication-servers

Syntax Description

no	(Optional) Negate a command or set its defaults
auto-remap-replication-servers	Automatically re-map replication servers on every replication server add

Command Mode

- /exec/configure/if-nve

autonomous-system

{ { autonomous-system <local-as> } | { no autonomous-system [<local-as>] } }

Syntax Description

no	Negate a command or set its defaults
autonomous-system	Specify AS number for Address Family
<i>local-as</i>	Local AS number

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

autoroute announce

[no] autoroute announce

Syntax Description

no	(Optional) Negate a command or set its defaults
autoroute	parameters for IGP routing over tunnel
announce	announce tunnel to IGP

Command Mode

- /exec/configure/if-te

autoroute metric

[no] autoroute metric | autoroute metric { <value> | relative <rel-value> }

Syntax Description

no	Negate a command or set its defaults
autoroute	parameters for IGP routing over tunnel
metric	Specify mpls tunnel metric
<i>value</i>	Set tunnel metric for autoroutes
relative	Adjust tunnel metric for autoroutes relative to IGP
<i>rel-value</i>	Relative metric value

Command Mode

- /exec/configure/if-te

autostate

[no] autostate

Syntax Description

no	(Optional) Negate a command or set its defaults
autostate	Enable or disable autostate for interface-vlan

Command Mode

- /exec/configure/if-vlan

autovlan enable

[no] autovlan enable

Syntax Description

no	(Optional) Negate a command or set its defaults
autovlan	Automatic creation/deletion of VLANs
enable	Enable auto creation/deletion of VLANs

Command Mode

- /exec/configure/vmt-conn

awk

| awk <expr>

Syntax Description

	Pipe command output to filter
awk	Mini AWK
<i>expr</i>	Edition command (script)

Command Mode

- /output



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backoff

backoff <initial-backoff> <maximum-backoff> | no backoff

Syntax Description

no	Negate a command or set its defaults
backoff	Set LDP session backoff parameters
<i>initial-backoff</i>	Initial session backoff time (seconds)
<i>maximum-backoff</i>	Maximum session backoff time (seconds)

Command Mode

- /exec/configure/ldp

backup-bw

backup-bw { <kbps> } | no backup-bw

Syntax Description

no	Negate a command or set its defaults
backup-bw	Represents bw for Fast Reroute backup
<i>kbps</i>	Amount of allocatable backup bw, any lsp may use

Command Mode

- /exec/configure/if-te

bandwidth

[no] bandwidth | bandwidth { <bw> }

Syntax Description

no	Negate a command or set its defaults
bandwidth	Specify LSP bandwidth
<i>bw</i>	bandwidth requirement in kbps

Command Mode

- /exec/configure/te/lsp-attr

bandwidth

[no] bandwidth | bandwidth { <kbps> }

Syntax Description

no	Negate a command or set its defaults
bandwidth	tunnel bandwidth requirement
<i>kbps</i>	bandwidth requirement in kbps

Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

bandwidth

```
bandwidth { <bandwidth_val> | inherit [ <inherit_val> ] } | no bandwidth { [ <bandwidth_val> ] | inherit [ <inherit_val> ] }
```

Syntax Description

no	Negate a command or set its defaults
bandwidth	Set bandwidth informational parameter
<i>bandwidth_val</i>	Bandwidth in kilobits
inherit	Specify that bandwidth is inherited
<i>inherit_val</i>	(Optional) Bandwidth in kilobits

Command Mode

- /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p /exec/configure/if-port-channel-sub

bandwidth

```
bandwidth { <bandwidth_val> | inherit [ <inherit_val> ] } | no bandwidth { [ <bandwidth_val> ] | inherit [ <inherit_val> ] }
```

Syntax Description

no	Negate a command or set its defaults
bandwidth	Set bandwidth informational parameter
<i>bandwidth_val</i>	Bandwidth in kilobits
inherit	Specify that bandwidth is inherited
<i>inherit_val</i>	(Optional) Bandwidth in kilobits

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-gig-ether-sub /exec/configure/if-remote-ethernet-sub

bandwidth

bandwidth { <bandwidth_val> | inherit [<inherit_val>] } | no bandwidth { [<bandwidth_val>] | inherit [<inherit_val>] }

Syntax Description

no	Negate a command or set its defaults
bandwidth	Set bandwidth informational parameter
inherit	Specify that bandwidth is inherited

Command Mode

- /exec/configure/if-eth-port-channel /exec/configure/if-port-channel-range
/exec/configure/if-port-channel-sub /exec/configure/if-eth-port-channel-switch
/exec/configure/if-eth-port-channel-p2p

bandwidth

bandwidth <bandwidth_val> | no bandwidth

Syntax Description

no	Negate a command or set its defaults
bandwidth	Set bandwidth informational parameter
<i>bandwidth_val</i>	Bandwidth in kilobits

Command Mode

- /exec/configure/if-vlan-common

bandwidth

[no] bandwidth { { <bw-value> [bps | kbps | mbps | gbps] | percent <percentage> } | { remaining percent <rem-perc> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
bandwidth	Specify bandwidth for the class
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
percent	Percentage of available bandwidth
<i>percentage</i>	Value in percentage
remaining	% of remaining bandwidth
<i>rem-perc</i>	Value in percentage

Command Mode

- /exec/configure/policy-map/type/plc/class

bandwidth

bandwidth <bandwidth_val> | no bandwidth

Syntax Description

no	Negate a command or set its defaults
bandwidth	Set bandwidth informational parameter
<i>bandwidth_val</i>	Bandwidth in kilobits

Command Mode

- /exec/configure/if-any-tunnel

bandwidth

```
[no] bandwidth { { xxx <bw-value> [ bps | kbps | mbps | gbps ] | percent <percentage> } | { remaining percent <rem-perc> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
bandwidth	Specify bandwidth for the class
xxx	xxx
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
percent	Percentage of available bandwidth
<i>percentage</i>	Value in percentage
remaining	% of remaining bandwidth
<i>rem-perc</i>	Value in percentage

Command Mode

- /exec/configure/policy-map/type/queuing/class

bandwidth

{ bandwidth <value> } | { no bandwidth }

Syntax Description

no	Negate a command or set its defaults
bandwidth	Bandwidth per flow
<i>value</i>	Per Flow Bandwidth in Mbps

Command Mode

- /exec/configure/nbm-flow/policy

banner motd

{ banner motd <line> } | { no banner motd }

Syntax Description

no	Negate a command or set its defaults
banner	Configure banner message
motd	Configure banner motd message
<i>line</i>	Delimiter char (Very first char is delimiter char) followed by message ending with delimiter

Command Mode

- /exec/configure

bcm-shell module

bcm-shell module <module> <quoted-cmd>

Syntax Description

bcm-shell	bcm shell/cmd
module	Module number of the linecard
<i>module</i>	Enter module number
<i>quoted-cmd</i>	the command to run on bcm-shell

Command Mode

- /exec

bcm-shell module

bcm-shell module <module>

Syntax Description

bcm-shell	bcm shell/cmd
module	Module number of the linecard
<i>module</i>	Enter module number

Command Mode

- /exec

beacon

[no] beacon

Syntax Description

no	(Optional) Negate a command or set its defaults
beacon	Disable/enable the beacon for an interface

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

begin exclude include end

| { begin | exclude | include | end } [-i | -x] + <expr> [next <num> | prev <num>] +

Syntax Description

	Pipe command output to filter
begin	Begin with the line that matches
exclude	Exclude lines that match
include	Include lines that match
end	End with the line that matches
-i	(Optional) Ignore case difference when comparing strings
-x	(Optional) Print only lines where the match is a whole line
<i>expr</i>	Search for the expression
next	(Optional) Print <num> lines of context after every matching line
prev	(Optional) Print <num> lines of context before every matching line
<i>num</i>	(Optional) Print <num> lines of context

Command Mode

- /output

bestpath

[no] bestpath { always-compare-med | med { missing-as-worst | non-deterministic | confed } | compare-routerid | compare-neighborid | cost-community ignore | as-path multipath-relax }

Syntax Description

no	(Optional) Negate a command or set its defaults
bestpath	Change default bestpath selection algorithm
always-compare-med	Compare MED on paths from different AS
med	MED
missing-as-worst	Treat missing MED as highest MED
non-deterministic	Not always pick the best-MED path among paths from same AS
compare-routerid	Compare router-id for identical EBGp paths
compare-neighborid	When more paths available than max path config, use neighborid tiebreaker
cost-community	cost community
ignore	Ignore cost communities in bestpath selection
confed	Compare MED only from paths originated from within a confederation
as-path	AS-Path
multipath-relax	Relax AS-Path restriction when choosing multipaths

Command Mode

- /exec/configure/router-bgp/vrf-cmds

bestpath all

[no] bestpath { all-paths-ecmp }

Syntax Description

no	(Optional) Negate a command or set its defaults
bestpath	Change default bestpath selection algorithm
all-paths-ecmp	Treat all paths as ECMP during bestpath calculation

Command Mode

- /exec/configure/router-bgp/router-bgp-af

bfd-app session auto-expiry timeout

```
bfd-app session auto-expiry { timeout <millis> | now }
```

Syntax Description

bfd-app	BFD application commands
auto-expiry	auto expiry start/end
session	session operation
timeout	timeout after
now	expiry reached, dont wait to timeout, do them now
<i>millis</i>	milli-secs later

Command Mode

- /exec/configure

bfd-app session remove

```
bfd-app session remove { all | intf <intf_id> | iod <iod_id> }
```

Syntax Description

bfd-app	BFD application commands
session	session operation
remove	Remove sessions
all	Remove all sessions
intf	Remove all sessions on interface
<i>intf_id</i>	Interface Id
iod	interface iod
<i>iod_id</i>	Interface iod in hex

Command Mode

- /exec/configure

bfd-app session src-ip dest intf

```
[no] bfd-app session src-ip { <src_ip> dest-ip <dest_ip> | <src_ipv6> dest-ip <dest_ipv6> } { intf <intf_id> | iod <iod_id> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
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

Command Mode

- /exec/configure

bfd-neighbor

[no] bfd-neighbor <remote-peer-ip> <inner-dest-ip> <inner-dest-mac>

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd-neighbor	BFD
<i>remote-peer-ip</i>	Remote peer IP address
<i>inner-dest-ip</i>	Inner Destination IP address
<i>inner-dest-mac</i>	Inner Destination MAC address

Command Mode

- /exec/configure/if-nve

bfd

[no | default] bfd

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
bfd	Bidirectional Fast Detection for the neighbor

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

bfd

[no] bfd

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	Enable IPv4 BFD on all ISIS interfaces

Command Mode

- /exec/configure/router-isis/router-isis-af-ipv6

bfd

[no] bfd

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	Enable BFD on all OSPF interfaces

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

bfd

[no] bfd [ipv4 | ipv6]

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
ipv4	(Optional) ipv4 sessions
ipv6	(Optional) ipv6 sessions

Command Mode

- /exec/configure/if-ma /exec/configure/if-vlan /exec/configure/if-ma-p2p

bfd

[no] bfd

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	Enable BFD on all EIGRP interfaces

Command Mode

- /exec/configure/router-eigrp /exec/configure/router-eigrp/router-eigrp-vrf
/exec/configure/router-eigrp/router-eigrp-af-common

bfd

[no] bfd

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	Enable BFD on all OSPF interfaces

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

bfd authentication key-id key

```
[ no | default ] bfd [ { ipv4 | ipv6 } ] authentication <auth_name> key-id <key_id_val> { key <key_val> | hex-key <h_key_val> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
bfd	Bidirectional Fast Detection for the neighbor
authentication	Configure BFD authentication parameters
ipv4	(Optional) ipv4 sessions
ipv6	(Optional) ipv6 sessions
<i>auth_name</i>	auth algorithm
key-id	Key ID to use in BFD frames
<i>key_id_val</i>	Key ID value
key	ASCII SHA1 secret
hex-key	HEX binary SHA1 secret
<i>key_val</i>	SHA1 secret value
<i>h_key_val</i>	SHA1 secret value. e.g ABCD123

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

bfd authentication key-id key

```
bfd [ { ipv4 | ipv6 } ] authentication <auth_name> key-id <key_id_val> { key <key_val> | hex-key <h_key_val> } | no bfd [ { ipv4 | ipv6 } ] authentication
```

Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
authentication	Configure BFD authentication parameters
ipv4	(Optional) ipv4 sessions
ipv6	(Optional) ipv6 sessions
<i>auth_name</i>	auth algorithm
key-id	Key ID to use in BFD frames
<i>key_id_val</i>	Key ID value
key	ASCII SHA1 secret
hex-key	HEX binary SHA1 secret
<i>key_val</i>	SHA1 secret value
<i>h_key_val</i>	SHA1 secret value. e.g ABCD123

Command Mode

- /exec/configure/if-ma /exec/configure/if-vlan /exec/configure/if-ma-p2p

bfd echo-interface

[no] bfd echo-interface <ifindex>

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
echo-interface	Configure interface used for bfd echo frames
<i>ifindex</i>	loopback interface

Command Mode

- /exec/configure

bfd echo-rx-interval

bfd [ipv4 | ipv6] echo-rx-interval <intv> | no bfd [ipv4 | ipv6] echo-rx-interval

Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
ipv6	(Optional) ipv6 sessions
ipv4	(Optional) ipv4 sessions
echo-rx-interval	Configure BFD session echo rx interval
<i>intv</i>	Echo Rx Interval in milliseconds

Command Mode

- /exec/configure /exec/configure/if-ma /exec/configure/if-ma-p2p

bfd echo

[no] bfd [{ ipv4 | ipv6 }] echo

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
echo	Configure Echo function for all address families
ipv4	(Optional) ipv4 sessions
ipv6	(Optional) ipv6 sessions

Command Mode

- /exec/configure/if-ma /exec/configure/if-vlan /exec/configure/if-ma-p2p

bfd interval

[no] bfd [ipv4 | ipv6] interval [<min_tx_mills> min_rx <min_rx_mills> multiplier <int_mult>]

Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
interval	Configure BFD session interval parameters
ipv6	(Optional) ipv6 sessions
ipv4	(Optional) ipv4 sessions
<i>min_tx_mills</i>	(Optional) TX interval in milliseconds
min_rx	(Optional) Minimum RX interval
<i>min_rx_mills</i>	(Optional) RX interval in milliseconds
multiplier	(Optional) Configure detect multiplier for bfd sessions
<i>int_mult</i>	(Optional) Detect Multiplier

Command Mode

- /exec/configure/if-ma /exec/configure/if-ma-p2p

bfd interval

[no] bfd [ipv4 | ipv6] interval [<min_tx_mills> min_rx <min_rx_mills> multiplier <int_mult>]

Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
interval	Configure BFD session interval parameters
ipv6	(Optional) ipv6 sessions
ipv4	(Optional) ipv4 sessions
<i>min_tx_mills</i>	(Optional) TX interval in milliseconds
min_rx	(Optional) Minimum RX interval
<i>min_rx_mills</i>	(Optional) RX interval in milliseconds
multiplier	(Optional) Configure detect multiplier for bfd sessions
<i>int_mult</i>	(Optional) Detect Multiplier

Command Mode

- /exec/configure

bfd interval min_rx multiplier

```
bfd [ ipv4 | ipv6 ] interval <min_tx_mills> min_rx <min_rx_mills> multiplier <int_mult> | { no | default }
bfd [ ipv4 | ipv6 ] interval [ <min_tx_mills> min_rx <min_rx_mills> multiplier <int_mult> ]
```

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
bfd	Bidirectional Fast Detection for the neighbor
interval	Configure BFD session interval parameters
ipv6	(Optional) ipv6 sessions
ipv4	(Optional) ipv4 sessions
<i>min_tx_mills</i>	TX interval in milliseconds
min_rx	Minimum RX interval
<i>min_rx_mills</i>	RX interval in milliseconds
multiplier	Configure detect multiplier for bfd sessions
<i>int_mult</i>	Detect Multiplier

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

bfd interval min_rx multiplier

bfd [ipv6 | ipv4] interval <min_tx_mills> min_rx <min_rx_mills> multiplier <int_mult>

Syntax Description

bfd	BFD commands
interval	Configure BFD session interval parameters
ipv6	(Optional) ipv6 sessions
ipv4	(Optional) ipv4 sessions
<i>min_tx_mills</i>	TX interval in milliseconds
min_rx	Minimum RX interval
<i>min_rx_mills</i>	RX interval in milliseconds
multiplier	Configure detect multiplier for bfd sessions
<i>int_mult</i>	Detect Multiplier

Command Mode

- /exec/configure/if-ma /exec/configure/if-ma-p2p

bfd interval min_rx multiplier

```
bfd [ ipv6 | ipv4 ] interval <min_tx_mills> min_rx <min_rx_mills> multiplier <int_mult>
```

Syntax Description

bfd	BFD commands
interval	Configure BFD session interval parameters
ipv6	(Optional) ipv6 sessions
ipv4	(Optional) ipv4 sessions
<i>min_tx_mills</i>	TX interval in milliseconds
min_rx	Minimum RX interval
<i>min_rx_mills</i>	RX interval in milliseconds
multiplier	Configure detect multiplier for bfd sessions
<i>int_mult</i>	Detect Multiplier

Command Mode

- /exec/configure

bfd move-session target

bfd move-session target <target_mod> [<discr>]

Syntax Description

bfd	BFD commands
move-session	move a session
target	Target module
<i>target_mod</i>	Module number
<i>discr</i>	(Optional) Session discriminator

Command Mode

- /exec/configure/if-ma /exec/configure/if-ma-p2p

bfd neighbor src-ip dest

[no] bfd neighbor src-ip { <src_ip> dest-ip <dest_ip> | <src_ipv6> dest-ip <dest_ipv6> }

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
neighbor	BFD neighbor configuration commands (simulate client)
src-ip	Source ip
<i>src_ip</i>	Source ip value
dest-ip	Destination ip
<i>dest_ip</i>	Destination ip value

Command Mode

- /exec/configure/if-ma /exec/configure/if-ma-p2p

bfd optimize subinterface

[no] bfd [ipv4] optimize subinterface

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
optimize	optimize
subinterface	optimize subinterfaces
ipv4	(Optional) ipv4 sessions

Command Mode

- /exec/configure/if-ma /exec/configure/if-ma-p2p

bfd per-link

[no] bfd [{ ipv4 | ipv6 }] per-link

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
per-link	Run BFD sessions on each port-channel link
ipv4	(Optional) ipv4 sessions
ipv6	(Optional) ipv6 sessions

Command Mode

- /exec/configure/if-eth-port-channel /exec/configure/if-port-channel-sub
/exec/configure/if-eth-port-channel-p2p

bfd session-store remove client

```
bfd session-store remove <hex_disc> client <int_cl>
```

Syntax Description

bfd	BFD commands
session-store	session store operation
remove	Remove session from session store
<i>hex_disc</i>	Session discriminator
client	Client Id
<i>int_cl</i>	client

Command Mode

- /exec/configure

bfd session-store source-ip dest-ip intf client

bfd session-store source-ip <src_ip> dest-ip <dest_ip> intf <intf_id> client <int_cl>

Syntax Description

bfd	BFD commands
session-store	Session store operation
source-ip	source ip
<i>src_ip</i>	source ip value
dest-ip	dest ip
<i>dest_ip</i>	source ip value
intf	interface
<i>intf_id</i>	Interface Id
client	Client Id
<i>int_cl</i>	client

Command Mode

- /exec/configure

bfd session state state

bfd session state <hex_disc> state <state_up_down>

Syntax Description

bfd	BFD commands
session	session related test
state	Change session state
<i>hex_disc</i>	Session discriminator
state	Change to state
<i>state_up_down</i>	UP/DOWN

Command Mode

- /exec/configure

bfd slow-timer

bfd [{ ipv4 | ipv6 }] slow-timer <int_slow_timer> | no bfd [{ ipv4 | ipv6 }] slow-timer

Syntax Description

no	Negate a command or set its defaults
bfd	BFD commands
slow-timer	Configure slow mode timer for sessions
<i>int_slow_timer</i>	Slow rate timer in milliseconds
ipv4	(Optional) ipv4 sessions
ipv6	(Optional) ipv6 sessions

Command Mode

- /exec/configure

bfd startup-timer bfd startup-timer

bfd startup-timer <int_startup_timer> | [no] bfd startup-timer

Syntax Description

no	(Optional) Negate a command or set its defaults
bfd	BFD commands
startup-timer	Configure Delayed Start Up timer for sessions
<i>int_startup_timer</i>	Start Up timer in seconds

Command Mode

- /exec/configure

bfd system internal

```
[no] bfd system internal { max session histories <sess_histories_val> | max lc retry interval <max_lc_retry_val>
| max acl retry interval <max_acl_retry_val> | lc retry interval <lc_retry_val> | acl retry interval <acl_retry_val>
| session init retry interval <init_retry_val> | move interval <move_interval> | max lc wait <max_lc_wait_val>
| move detect-mult <move_dm> | neighbor-discovery interval <discovery_val> | max sessions <max_sess_val>
| max mts tlvs <tlv_val> | enable-mts <f2lc_number_v> <f3lc_number_v> | max mts flush interval <flush_val>
| session expiry <session_expiry_val> } | { interval issu <tx_val> min_rx <rx_val> multiplier <multiplier_val>
}
```

Syntax Description

no	(Optional) Reset global config to defaults
bfd	BFD commands
system	System-related commands
internal	Commands for internal use
max	Configure maximum
session	session
histories	histories to retain
<i>sess_histories_val</i>	Number of session histories to retain
retry	retry
interval	interval
lc	LC
retry	LC retry (secs)
<i>max_lc_retry_val</i>	Value for max interval(sec)
<i>lc_retry_val</i>	gap in seconds
session	Session
init	reinit interval
flush	flush interval
interval	interval
<i>init_retry_val</i>	Gap in seconds
acl	acl
<i>max_acl_retry_val</i>	Maximum interval for which acl installation needs to be retried (secs)

<i>flush_val</i>	Maximum interval to wait before pending mts is sent to aclmgr/bfdc (sec)
acl	acl
<i>acl_retry_val</i>	Acl retry interval(secs)
interval	TX to use during ISSU
issu	issu parameters
min_rx	RX to use during ISSU
multiplier	Multiplier to use during ISSU
<i>tx_val</i>	TX val (msec)
<i>rx_val</i>	RX val (msecs)
<i>multiplier_val</i>	Multiplier
move	Move
interval	interval
<i>move_interval</i>	move interval value
detect-mult	detect multiplier
<i>move_dm</i>	move detect multiplier value
wait	wait
<i>max_lc_wait_val</i>	max wait time(sec)
neighbor-discovery	neighbor discovery
<i>discovery_val</i>	Neighbor discovery interval(msecs)
sessions	sessions
<i>max_sess_val</i>	max number of sessions(16-10000)
mts	mts msg
tlvs	TLVS batched
<i>tlv_val</i>	number of tlvs
enable-mts	Enables MTS send(F2)/rcv(F3) between Specified line cards
<i>f2lc_number_v</i>	F2 Line card number (1-10)
<i>f3lc_number_v</i>	F3 Line card number (1-10)
session	session

expiry	expiry
<i>session_expiry_val</i>	session expiry sec

Command Mode

- /exec

binary-location

[no] binary-location <source-uri>

Syntax Description

no	(Optional) Negate a command or set its defaults
binary-location	the location binaries are downloaded from
<i>source-uri</i>	Location for restoration to pick up binaries

Command Mode

- /exec/configure/personality

blink

```
[no] blink { module <module> | <s0> <santa-cruz-range> | chassis | powersupply <psnum> | fan <fan_num>
}
```

Syntax Description

no	(Optional) Negate a command or set its defaults
blink	blink locator led
module	blink module led
<i>module</i>	please enter the module number
<i>s0</i>	blink a specific xbar
<i>santa-cruz-range</i>	please enter the xbar number
chassis	blink chassis led
powersupply	blink powersupply led
<i>psnum</i>	powersupply number
fan	blink Fan led
<i>fan_num</i>	fan number

Command Mode

- /exec

bloggerd delete all

bloggerd delete { all-temporary-binary-log-dumps | all-temporary-binary-show-tech-files }

Syntax Description

bloggerd	Blogger commands
delete	Delete all logs of one type
all-temporary-binary-log-dumps	Delete all binary log dumps from the local partition (/var/sysmgr/tmp/)
all-temporary-binary-show-tech-files	Delete all binary show tech files

Command Mode

- /exec

bloggerd live-process-core process pid

bloggerd live-process-core process <process-name> pid <process-pid>

Syntax Description

bloggerd	Blogger commands
live-process-core	Request a process core dump without killing it
process	Linux Process name
<i>process-name</i>	Enter the Linux name of the process for which core is being requested (Eg: sysmgr)
pid	Process PID
<i>process-pid</i>	Enter the linux PID of the process for which core is being requested (Eg: 4571)

Command Mode

- /exec

bloggerd live-process-core sap

bloggerd live-process-core sap <sap>

Syntax Description

bloggerd	Blogger commands
live-process-core	Dump the core of the live-process
sap	Dump core for a particular SAP
<i>sap</i>	Enter a valid SAP. Enter 0 for ALL SAPs in this VDC

Command Mode

- /exec

bloggerd log-dump all

```
[no] bloggerd log-dump { all | [ module <module> ] sap <sap_num> [ vdc <new_id> | vdc-all ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
bloggerd	Blogger commands
log-dump	Dump Log Buffer
all	Log Dump for ALL services across ALL modules in the switch on reaching threshold
module	(Optional) Enable Buffer Dump for particular Module
<i>module</i>	(Optional) Enter a valid Module Number
sap	Enable Buffer Dump for a particular sap
<i>sap_num</i>	Enter a valid SAP. Enter 0 for ALL SAPs in this VDC
vdc	(Optional) Enable Log Dump for a particular VDC. DEFAULT_VDC by default
<i>new_id</i>	(Optional) Enter a valid VDC ID
vdc-all	(Optional) Enable Log Dump for the sap on ALL VDCs

Command Mode

- /exec/configure

bloggerd log-dump once log-buffer sap event-history

```
bloggerd log-dump once log-buffer sap <sap> event-history { errors | msgs | { app-specific <uuid> instance
<buffer-instance> } }
```

Syntax Description

bloggerd	Blogger commands
log-dump	Dump Log Buffer
once	Dump Log Buffer once immediately
log-buffer	Dump Log buffer
sap	Enable Buffer Dump for a particular sap
<i>sap</i>	Enter a valid SAP. Enter 0 for ALL SAPs in this VDC
event-history	Event-History Buffers
errors	event-history errors
msgs	event-history messages
app-specific	application specific event history
<i>uuid</i>	Enter valid app's UUID
instance	Buffer Instance of the App-Specific SDWrap buffer
<i>buffer-instance</i>	Enter a valid SDWrap buffer instance for the app

Command Mode

- /exec

bloggerd log-dump once pss uuid

bloggerd log-dump once pss uuid <uuid>

Syntax Description

bloggerd	Blogger commands
log-dump	Dump Log Buffer
once	Dump Log Buffer once immediately
pss	Dump PSS
uuid	Dump PSS for a particular UUID
<i>uuid</i>	Enter a app's UUID

Command Mode

- /exec

bloggerd log-throttle

```
[no] bloggerd log-throttle [ min-rollover <min-rollover> max-rollover-per-minute <max-rollover-per-minute> ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
bloggerd	Blogger commands
log-throttle	Enable Log Dump Throttling for all NxOS services
min-rollover	(Optional) Number of minimum buffer rollovers before starting to throttle. Default: 5
<i>min-rollover</i>	(Optional) Enter the minimum number of roll-overs before throttling log-dump. Default: 5
max-rollover-per-minute	(Optional) Maximum allowed buffer rollovers per minute. Default: 1
<i>max-rollover-per-minute</i>	(Optional) Enter the maximum allowed roll-overs per minute before throttling. Default: 1

Command Mode

- /exec/configure

bloggerd log-transfer

```
bloggerd log-transfer { <ip-addr> <path> | logflash }
```

Syntax Description

bloggerd	Blogger commands
log-transfer	Configure log transfer
<i>ip-addr</i>	IP addr of logging server
<i>path</i>	Path in tftp server to store logs. Eg: logOutput
logflash	Move all log-files to logflash

Command Mode

- /exec/configure

bloggerd log-transfer

[no] bloggerd log-transfer

Syntax Description

no	Negate a command or set its defaults
bloggerd	Blogger commands
log-transfer	Configure log transfer

Command Mode

- /exec/configure

bloggerd mleak-check directory1 directory2

bloggerd mleak-check directory1 <uri0> directory2 <uri1>

Syntax Description

bloggerd	Blogger commands
mleak-check	Leak check
directory1	Enter path of directory
<i>uri0</i>	Linux path to file/directory (Eg: /bootflash/abc)
directory2	Enter path of directory
<i>uri1</i>	Linux path to file/directory (Eg: /bootflash/abc)

Command Mode

- /exec

bloggerd leak-dump all

bloggerd leak-dump all

Syntax Description

bloggerd	Blogger commands
mleak-dump	Leak dump
all	All apps on all modules

Command Mode

- /exec

bloggerd parse log-buffer file

```
bloggerd parse log-buffer { file | directory } <uri0>
```

Syntax Description

bloggerd	Blogger commands
parse	Parse a file
log-buffer	Parse buffer log file
directory	Enter path of directory
file	Enter file name. Please unzip file before parsing!
<i>uri0</i>	Linux path to file/directory (Eg: /bootflash/abc)

Command Mode

- /exec

bloggerd parse log-buffer file sap

bloggerd parse log-buffer file <uri0> sap <sap-num>

Syntax Description

bloggerd	Blogger commands
parse	Parse a file
log-buffer	Parse buffer log file
file	Enter file name. Please unzip file before parsing!
<i>uri0</i>	Linux path to file (Eg: /bootflash/abc)
sap	SAP of the application which should parse the file
<i>sap-num</i>	Enter a valid SAP. Enter 0 for ALL SAPs in this VDC

Command Mode

- /exec

bloggerd parse pss file

bloggerd parse pss file <uri0>

Syntax Description

bloggerd	Blogger commands
parse	Parse a file
pss	Parse a dumped PSS File
file	Enter file name (without pss extensions). Please unzip file before parsing!
<i>uri0</i>	Linux path to file/directory (Eg: /bootflash/abc)

Command Mode

- /exec

bmp-activate-server

bmp-activate-server <server-number> | { no | default } bmp-activate-server <server-number>

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
bmp-activate-server	Activate BMP monitoring for the peer
<i>server-number</i>	Server Id

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

bmp-server

[no] bmp-server <server-number>

Syntax Description

no	(Optional) Negate a command or set its defaults
bmp-server	Configure bmp-server
<i>server-number</i>	server number value

Command Mode

- /exec/configure/router-bgp

boot-install nxos

```
{ boot-install nxos <uri0> | no boot-install nxos [ <uri0> ] }
```

Syntax Description

no	Negate a command or set its defaults
boot-install	Configure boot variables
nxos	Configure NXOS image
<i>uri0</i>	Enter NXOS image uri

Command Mode

- /exec/configure

boot-order

boot-order <new_id>

Syntax Description

boot-order	The order at which a vdc will boot up. VDCs at the same level will be started parallelly
<i>new_id</i>	The order at which a vdc will boot up. VDCs at the same level will be started parallelly

Command Mode

- /exec/configure/vdc

boot

```
{ boot <s0> <uri0> [ module [ <module> ] ] | no boot <s0> [ <uri0> [ module [ <module> ] ] ] }
```

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
<i>s0</i>	use [show boot variables] for list of keywords
<i>uri0</i>	Enter module image uri
module	(Optional) Enter module number for the image
<i>module</i>	(Optional) Enter module number

Command Mode

- /exec/configure

boot aci

```
{ boot aci <uri0> | no boot aci [ <uri0> ] }
```

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
aci	Configure ACI image
<i>uri0</i>	Enter ACI image uri

Command Mode

- /exec/configure

boot auto-copy

[no] boot auto-copy

Syntax Description

no	(Optional) Negate a command or set its defaults
boot	Configure boot variables
auto-copy	Turns on/off autocopy of bootvar images

Command Mode

- /exec/configure

boot kickstart

```
{ boot kickstart <uri0> | no boot kickstart [ <uri0> ] }
```

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
kickstart	Configure kickstart image
<i>uri0</i>	Enter Kickstart image uri

Command Mode

- /exec/configure

boot mode lxc

[no] boot mode lxc

Syntax Description

no	(Optional) Negate a command or set its defaults
boot	Configure boot mode
mode	boot mode
lxc	Turns on/off lxc mode

Command Mode

- /exec/configure

boot nxos

```
{ boot nxos <uri0> | no boot nxos [ <uri0> ] }
```

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
nxos	Configure NXOS image
<i>uri0</i>	Enter nxos image uri

Command Mode

- /exec/configure

boot nxos sup-1

{ boot nxos <uri0> sup-1 | no boot nxos <uri0> sup-1 }

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
nxos	Configure NXOS image
<i>uri0</i>	Enter kickstart image uri
sup-1	Enter sup-1 to configure the 1st sup

Command Mode

- /exec/configure

boot nxos sup-1 sup-2

{ boot nxos <uri0> sup-1 sup-2 | no boot nxos <uri0> sup-1 sup-2 }

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
nxos	Configure NXOS image
<i>uri0</i>	Enter kickstart image uri
sup-1	Enter sup-1 to configure the 1st sup
sup-2	Enter sup-2 to configure the 2nd sup

Command Mode

- /exec/configure

boot nxos sup-2

```
{ boot nxos <uri0> sup-2 | no boot nxos <uri0> sup-2 }
```

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
nxos	Configure NXOS image
<i>uri0</i>	Enter kickstart image uri
sup-2	Enter sup-2 to configure the 2nd sup

Command Mode

- /exec/configure

boot order bootflash

{ boot order bootflash [pxe] | no boot order bootflash [pxe] }

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
order	Configure loader fallback order
bootflash	Boot from Bootflash
pxe	(Optional) Pxe Boot

Command Mode

- /exec/configure

boot order pxe

{ boot order pxe [bootflash] | no boot order pxe [bootflash] }

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
order	Configure loader fallback order
pxe	Pxe Boot
bootflash	(Optional) Boot from Bootflash

Command Mode

- /exec/configure

boot system

{ boot system <uri0> | no boot system [<uri0>] }

Syntax Description

no	Negate a command or set its defaults
boot	Configure boot variables
system	Configure system image
<i>uri0</i>	Enter system image uri

Command Mode

- /exec/configure

bootmode boot

[no] bootmode boot

Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
boot	boot in boot mode

Command Mode

- /exec/configure

bootmode extruntime

[no] bootmode extruntime

Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
extruntime	boot in runtime mode with extended diags

Command Mode

- /exec/configure

bootmode hitless

[no] bootmode hitless

Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
hitless	boot in hitless mode

Command Mode

- /exec/configure

bootmode module

[no] bootmode module <module> { boot | extruntime | hitless | netboot | nodiagruntime | runtime }

Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
module	set bootmode for a given module in the switch
<i>module</i>	please enter module number
boot	boot in boot mode
extruntime	boot in runtime mode with extended diags
hitless	boot in hitless mode
netboot	boot using boot netboot in runtime mode
nodigruntime	boot in runtime mode without running any diags
runtime	boot in runtime mode with normal diags

Command Mode

- /exec/configure

bootmode nodiagruntime

[no] bootmode nodiagruntime

Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
nodiagruntime	boot in runtime mode without running any diags

Command Mode

- /exec/configure

bootmode runtime

[no] bootmode runtime

Syntax Description

no	(Optional) Negate a command or set its defaults
bootmode	set bootmode for all modules in the switch
runtime	boot in runtime mode with normal diags

Command Mode

- /exec/configure

buffer-boost

[no] buffer-boost

Syntax Description

no	(Optional) Negate a command or set its defaults
buffer-boost	Enable extra buffers for this interface

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

buffer-delete

```
buffer-delete { <id-range> | <id> | all }
```

Syntax Description

buffer-delete	delete buffered command(s)
<i>id-range</i>	Range(whole-number) of command id(s) to be deleted from switch-profile buffer
<i>id</i>	Exact command id (x.x.x format) to be deleted from switch-profile buffer
all	delete all buffered commands

Command Mode

- /exec/configure

buffer-move

buffer-move <fromid> <toid>

Syntax Description

buffer-move	move buffered command(s)
<i>fromid</i>	Command id of command(s) to be moved in switch-profile buffer
<i>toid</i>	New command id to be assigned in switch-profile buffer

Command Mode

- /exec/configure

burst-detect rise-threshold bytes fall-threshold bytes2

[no] burst-detect rise-threshold <value-in-bytes> bytes fall-threshold <value-in-bytes> bytes2

Syntax Description

no	(Optional) Negate a command or set its defaults
burst-detect	Specify OOBST burst-detect thresholds for the class
rise-threshold	Threshold bytes(queue depth) to start monitoring burst
<i>value-in-bytes</i>	
bytes	bytes
fall-threshold	Threshold bytes(queue depth) to stop monitoring burst
<i>value-in-bytes</i>	
bytes2	bytes2

Command Mode

- /exec/configure/policy-map/type/queuing/class



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callhome

callhome

Syntax Description

callhome	Enter the callhome configuration mode
----------	---------------------------------------

Command Mode

- /exec/configure

callhome send configuration

callhome send configuration

Syntax Description

callhome	callhome commands
send	send a command callhome message
configuration	configuration type

Command Mode

- /exec

callhome send diagnostic

callhome send diagnostic

Syntax Description

callhome	callhome commands
send	send a command callhome message
diagnostic	dignostic command

Command Mode

- /exec

callhome send eem subject body

callhome send eem subject <s1> body <s2>

Syntax Description

callhome	callhome commands
send	send a command callhome message
eem	eem action email
subject	action email subject
body	action email body
<i>s1</i>	subject-text string
<i>s2</i>	body-text string

Command Mode

- /exec

callhome test

callhome test

Syntax Description

callhome	callhome commands
test	send a test callhome message

Command Mode

- /exec

callhome test inventory

callhome test inventory

Syntax Description

callhome	callhome commands
test	send a test callhome message
inventory	send a dummy callhome inventory

Command Mode

- /exec

callhome test supfail

callhome test supfail

Syntax Description

callhome	callhome commands
test	send a test callhome message
supfail	send a dummy callhome message about sup failure

Command Mode

- /exec

capability additional-paths receive

[no | default] capability additional-paths receive [disable]

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
capability	Advertise capability to the peer
additional-paths	Additional paths capability
receive	Additional paths Receive capability
disable	(Optional) Do not advertise additional paths Receive capability

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpn4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpn6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn

capability additional-paths send

[no | default] capability additional-paths send [disable]

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
capability	Advertise capability to the peer
additional-paths	Additional paths capability
send	Additional paths Send capability
disable	(Optional) Do not advertise additional paths Send capability

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn

capability suppress 4-byte-as

[no | default] capability suppress 4-byte-as

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
capability	Capability
suppress	Suppress sending out capability
4-byte-as	Suppress 4-byte AS Capability

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

capability vrf-lite

[no] capability vrf-lite [evpn]

Syntax Description

no	(Optional) Negate a command or set its defaults
capability	Capability
vrf-lite	Enable VRF-lite support
evpn	(Optional) Ethernet VPN

Command Mode

- /exec/configure/router-ospf/vrf

capture session

[no] capture session <session-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
capture	Enable packet capture on this filter for session
session	Session ID <1-48> for this session
<i>session-id</i>	Session ID <1-48> for this session

Command Mode

- /exec/configure/ipacl /exec/configure/ipv6acl /exec/configure/macacl /exec/configure/arpacl

carrier-delay

carrier-delay { <sec_val> | msec <msec_val> } | no carrier-delay

Syntax Description

no	Negate a command or set its defaults
carrier-delay	Specify delay for interface transitions
<i>sec_val</i>	Carrier Transitions delay seconds
msec	Carrier Transitions delay milliseconds
<i>msec_val</i>	Carrier Transitions delay milliseconds

Command Mode

- /exec/configure/if-vlan-common

catena

{ catena <instance-name> } | { no catena <instance-name> }

Syntax Description

no	Negate a command or set its defaults
catena	instance
<i>instance-name</i>	instance-name

Command Mode

- /exec/configure

catena device-group

{ catena device-group <device-grp-name> } | { no catena device-group <device-grp-name> }

Syntax Description

no	Negate a command or set its defaults
catena	instance
device-group	device group
<i>device-grp-name</i>	device-grp-name

Command Mode

- /exec/configure

catena port-acl

{ catena port-acl <port-acl-name> } | { no catena port-acl <port-acl-name> }

Syntax Description

no	Negate a command or set its defaults
catena	instance
port-acl	port acl
<i>port-acl-name</i>	port-acl-name

Command Mode

- /exec/configure

catena port-group

```
{ catena port-group <port-group-name> } | { no catena port-group <port-group-name> }
```

Syntax Description

no	Negate a command or set its defaults
catena	instance
port-group	port group
<i>port-group-name</i>	port-group-name

Command Mode

- /exec/configure

catena vlan-group

{ catena vlan-group <vlan-grp-name> } | { no catena vlan-group <vlan-grp-name> }

Syntax Description

no	Negate a command or set its defaults
catena	instance
vlan-group	vlan group
<i>vlan-grp-name</i>	vlan-grp-name

Command Mode

- /exec/configure

cbts-member tunnel-te

[no] cbts-member tunnel-te <tunnel-num>

Syntax Description

no	(Optional) Negate a command or set its defaults
cbts-member	Member Tunnel
tunnel-te	Tunnel Interface
<i>tunnel-num</i>	Tunnel Interface number

Command Mode

- /exec/configure/if-te

cd

cd <uri0>

Syntax Description

cd	Change current directory
<i>uri0</i>	Enter the name of the directory

Command Mode

- /exec

cdp advertise v1

cdp advertise { v1 | v2 } | no cdp advertise [v1 | v2]

Syntax Description

no	Negate a command or set its defaults
cdp	Configure CDP parameters
advertise	Highest CDP version supported on the switch
v1	CDP Version 1
v2	CDP Version 2

Command Mode

- /exec/configure

cdp enable

[no] cdp enable

Syntax Description

no	(Optional) Negate a command or set its defaults
cdp	Configure CDP interface parameters
enable	Enable/disable CDP on the interface

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-gig-ether-all /exec/configure/if-gig-ether /exec/configure/if-eth-base /exec/configure/if-mgmt-ether

cdp enable

[no] cdp enable

Syntax Description

no	(Optional) Negate a command or set its defaults
cdp	Configure CDP interface parameters
enable	Enable/disable CDP on all interfaces

Command Mode

- /exec/configure

cdp format device-id

[no] cdp format device-id { mac-address | serial-number | system-name }

Syntax Description

no	(Optional) Negate a command or set its defaults
cdp	Configure CDP parameters
format	Device ID format for CDP
device-id	Device ID format for CDP
mac-address	Mac-address of the Chassis
serial-number	Chassis Serial Number/OUI
system-name	System name/Fully Qualified Domain Name (Default)

Command Mode

- /exec/configure

cdp holdtime

[no] cdp holdtime <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
cdp	Configure CDP parameters
holdtime	CDP hold time advertised (in seconds)
<i>i0</i>	CDP hold time advertised (in seconds)

Command Mode

- /exec/configure

cdp timer

[no] cdp timer <i>*i*>

Syntax Description

no	(Optional) Negate a command or set its defaults
cdp	Configure CDP parameters
timer	CDP refresh time interval (in seconds)
<i>i</i>	CDP refresh time interval (in seconds)

Command Mode

- /exec/configure

certificate

certificate <file-name> <host-name> | no certificate

Syntax Description

no	Negate a command or set its defaults
certificate	Specify certificate
<i>file-name</i>	.pem certificate filename
<i>host-name</i>	hostname associated with certificate

Command Mode

- /exec/configure/telemetry

cfs clear message-context name session-id

cfs clear message-context name <cfs-dyn-app-name> session-id <i0>

Syntax Description

cfs	CFS parameters
clear	clear message context
message-context	clear message context
name	clear message context for given application
<i>cfs-dyn-app-name</i>	Registered name of the local application
session-id	Seesion id of message context
<i>i0</i>	Seesion id

Command Mode

- /exec

cfs debug all

cfs debug all

Syntax Description

cfs	CFS parameters
debug	Internal command for debugs
all	Internal command for debugs

Command Mode

- /exec

cfs distribute

[no] cfs distribute

Syntax Description

no	(Optional) Negate a command or set its defaults
distribute	Enable fabric wide distribution

Command Mode

- /exec/configure

cfs eth cos

{ cfs eth cos <i0> | no cfs eth cos [<i0>] }

Syntax Description

no	Negate a command or set its defaults
eth	ETH configurations
cos	Configure CFS Ethernet COS value
<i>i0</i>	COS Value Range

Command Mode

- /exec/configure

cfs eth distribute

[no] cfs eth distribute

Syntax Description

no	(Optional) Negate a command or set its defaults
eth	ETH configurations
distribute	Enable CFS distribution over Ethernet

Command Mode

- /exec/configure

cfs internal

cfs internal { decrement-uncoord <i0> | decrement-unrestricted <i1> | increment-uncoord <i2> | increment-unrestricted <i3> | lock <i4> | unlock <i5> | latency-log-on | latency-log-off }

Syntax Description

cfs	CFS parameters
internal	CFs internal database modification
decrement-uncoord	Decrement the number of uncoord distributions for the sap
<i>i0</i>	SAP of the application to be locked
decrement-unrestricted	Decrement the number of unrestricted distributions for the sap
<i>i1</i>	SAP of the application to be locked
increment-uncoord	Increment the number of uncoord distributions for the sap
<i>i2</i>	SAP of the application to be locked
increment-unrestricted	Increment the number of unrestricted distributions for the sap
<i>i3</i>	SAP of the application to be locked
lock	Lock and application instance.
<i>i4</i>	SAP of the application to be locked
unlock	UnLock a application instance.
<i>i5</i>	SAP of the application to be unlocked
latency-log-on	Enable latency logs
latency-log-off	Disable latency logs

Command Mode

- /exec

cfs internal cfsoe

```
cfs internal cfsoe { sap <i0> { lmi <i1> | ami <i2> | emi <i3> | reorder <i4> | send_ack <i5> | drop_packet
<i6> | iod_register <i7> } | reset { all | reassembly_q } }
```

Syntax Description

cfs	CFS parameters
internal	CFs internal database modification
cfsoe	CFSOE IoD internal values
sap	SAP Number
<i>i0</i>	SAP Number
lmi	Least msg-id value
<i>i1</i>	Msg-id value
ami	Application msg-id value
<i>i2</i>	Msg-id value
emi	Least msg-id value
<i>i3</i>	Msg-id value
reorder	Reorder Set/Unset
<i>i4</i>	Set(1)/Unset(0)
send_ack	Send/Dont Send Ack
<i>i5</i>	Set(1)/Unset(0)
drop_packet	Drop/Dont Drop Packet
<i>i6</i>	Set(1)/Unset(0)
iod_register	Register app for IOD
<i>i7</i>	Set(1)/Unset(0)
reset	Reset globally
all	All values
reassembly_q	Set Reassembly Queue count to zero

Command Mode

- /exec

cfs ipv4 distribute

```
[no] cfs ipv4 { distribute | mcast-address <ip0> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv4	IPv4 configurations
distribute	Enable CFS distribution over IPv4
mcast-address	Configure IPv4 multicast address
<i>ip0</i>	Admin scope [239.255/16, 239.192/16-239.251/16]

Command Mode

- /exec/configure

cfs ipv6 distribute

[no] cfs ipv6 { distribute | mcast-address <ipv6> }

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	IPv6 configurations
distribute	Enable CFS distribution over IPv6
mcast-address	Configure IPv6 multicast address

Command Mode

- /exec/configure

cfs merge all-fabrics name

cfs merge all-fabrics name <cfs-dyn-app-name> [vsan <i0>]

Syntax Description

cfs	CFS parameters
merge	Resolve the merge failures
all-fabrics	Fabric wide within the scope of the application
name	Application name
<i>cfs-dyn-app-name</i>	Registered name of the local application
vsan	(Optional) For logical applications only
<i>i0</i>	(Optional) Vsan Id

Command Mode

- /exec

cfs region

[no] cfs region <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
region	Regions to limit the distribution scope of application(s)
<i>i0</i>	Region Id

Command Mode

- /exec/configure

chain

{ chain <chain-id> } | { no chain <chain-id> }

Syntax Description

no	Negate a command or set its defaults
chain	chain for instance
<i>chain-id</i>	chain ID

Command Mode

- /exec/configure/catena

change-password

change-password [old-password <s1> new-password <s2>]

Syntax Description

change-password	Change your password
old-password	(Optional) Current password for the user
<i>s1</i>	(Optional) Current password for the user (clear text)
new-password	(Optional) New password for the user
<i>s2</i>	(Optional) New password for the user (clear text)

Command Mode

- /exec

checkpoint

```
checkpoint { [ <name> ] [ description <descr_str> ] | file <file_uri> }
```

Syntax Description

checkpoint	Create configuration rollback checkpoint
<i>name</i>	(Optional) Checkpoint name
file	Create configuration rollback checkpoint to file
<i>file_uri</i>	Checkpoint file path
description	(Optional) checkpoint description for the given checkpoint
<i>descr_str</i>	(Optional) checkpoint description(can include spaces)

Command Mode

- /exec

checkpoint

[no] checkpoint <chkpoint_name>

Syntax Description

no	Negate a command or set its defaults
checkpoint	Delete configuration rollback checkpoint
<i>chkpoint_name</i>	Checkpoint name

Command Mode

- /exec

cipher-suite

[no] cipher-suite <suite>

Syntax Description

cipher-suite	Configure Cipher Suite
<i>suite</i>	Cipher Suite options

Command Mode

- /exec/configure/masec-policy

class-map

[no] class-map [type qos] [<any_or_all>] <omap-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
class-map	Configure a class map
type	(Optional) Specify the type of this class-map
qos	(Optional) Qos class
<i>any_or_all</i>	(Optional) Enter match-any or match-all
<i>omap-name</i>	class-map name

Command Mode

- /exec/configure

class-map type control-plane

[no] class-map type control-plane [<opt_any_or_all>] <cmmap-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
class-map	Configure a class map
type	Specify the type of this class-map
control-plane	Control-Plane
<i>opt_any_or_all</i>	(Optional) Enter match-any or match-all
<i>cmmap-name</i>	Class-map name

Command Mode

- /exec/configure

class-map type network-qos

[no] class-map type network-qos [match-any] <cmmap-name-nq>

Syntax Description

no	(Optional) Negate a command or set its defaults
class-map	Configure a class map
type	Specify the type of this class-map
network-qos	Network QoS class
match-any	(Optional) Match on any criteria
<i>cmmap-name-nq</i>	class-map name

Command Mode

- /exec/configure

class-map type psp

```
[no] class-map type psp [ <any_or_all> ] { <cmap-name-plc> | { handle <ppf_id> } } [ sequence <seq_no> ] [ client <clienttype> <clientID> ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
class-map	Configure a class map
type	Specify the type of this class-map
psp	PSP class
<i>any_or_all</i>	(Optional) Enter match-any or match-all
<i>cmap-name-plc</i>	class-map name
handle	Handle
<i>ppf_id</i>	PPF ID
sequence	(Optional) sequence
<i>seq_no</i>	(Optional) Sequence number
client	(Optional) set client type
<i>clienttype</i>	(Optional) cli/onep
<i>clientID</i>	(Optional) client appID

Command Mode

- /exec/configure

class-map type queuing

```
[no] class-map type queuing [ <any_or_all> ] { xxx <omap-enum-name> | <omap-dce-name> | zzz
<omap-name-hque> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
class-map	Configure a class map
type	Specify the type of this class-map
queuing	Queuing class
<i>any_or_all</i>	(Optional) Enter match-any
<i>omap-enum-name</i>	
xxx	xxx
zzz	zzz
<i>omap-dce-name</i>	Queuing class-map name
<i>omap-name-hque</i>	Hierarchical class-map name

Command Mode

- /exec/configure

class-map type queuing

[no] class-map type queuing { <omap-dce-name> }

Syntax Description

no	(Optional) Negate a command or set its defaults
class-map	Configure a class map
type	Specify the type of this class-map
queuing	Queuing class
<i>omap-dce-name</i>	Queuing class-map name

Command Mode

- /exec/configure

class

```
class { < cmap-name > [ insert-before < cmap-name2 > ] | class-default } | no class { < cmap-name > | class-default } }
```

Syntax Description

no	Negate a command or set its defaults
class	Attach class map to policy map
<i>cmap-name</i>	Class-map name
insert-before	(Optional) Insert this class before another class
<i>cmap-name2</i>	(Optional) class map name before which insertion should happen
class-default	Use class default

Command Mode

- /exec/configure/pmap

class

```
[no] class [ type qos ] <cmap-name> [ insert-before [ type qos1 ] <cmap-name2> ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
class	Policy Criteria
type	(Optional) Specify the type of class
qos	(Optional) Match on Qos class
<i>cmap-name</i>	class map name
insert-before	(Optional) Insert this class before another class
qos1	(Optional) Insert before Qos class
<i>cmap-name2</i>	(Optional) class map name

Command Mode

- /exec/configure/policy-map

class __inline__

[no] class __inline__ [type psp] <cmmap-name-plc> [insert-before <cmmap-name2>]

Syntax Description

no	(Optional) Negate a command or set its defaults
class	Policy Criteria
__inline__	Inline Class
type	(Optional) Specify the type of class
psp	(Optional) Match on PSP class
<i>cmmap-name-plc</i>	class map name
insert-before	(Optional) Insert this class before another class
<i>cmmap-name2</i>	(Optional) class map name

Command Mode

- /exec/configure/policy-map/type/plc

class class-default

[no] class class-default

Syntax Description

no	(Optional) Negate a command or set its defaults
class	Policy Criteria
class-default	System default class matching otherwise unclassified packets

Command Mode

- /exec/configure/policy-map

class type network-qos

[no] class type network-qos <cmmap-name-nq>

Syntax Description

no	(Optional) Negate a command or set its defaults
class	Match on network-qos class-map
type	Specify the type of this class-map
network-qos	Network QoS policy
<i>cmmap-name-nq</i>	Match class-map name

Command Mode

- /exec/configure/policy-map/type/uf

class type network-qos class-default

[no] class type network-qos class-default

Syntax Description

no	(Optional) Negate a command or set its defaults
class	Match on network-qos class-map
type	Specify the type of this class-map
network-qos	Network QoS policy
class-default	System default class matching otherwise not classified cos values

Command Mode

- /exec/configure/policy-map/type/uf

class type psp

```
[no] class type psp { <omap-name-plc> | { handle1 <ppf_id1> } } [ insert-before { <omap-name2> | { handle2 <ppf_id2> } } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
class	Policy Criteria
type	Specify the type of class
psp	Match on PSP class
<i>omap-name-plc</i>	class map name
handle1	Handle1
<i>ppf_id1</i>	PPF ID1
insert-before	(Optional) Insert this class before another class
<i>omap-name2</i>	(Optional) class map name
handle2	(Optional) Handle2
<i>ppf_id2</i>	(Optional) PPF ID2

Command Mode

- /exec/configure/policy-map/type/plc

class type queuing

```
[no] class type queuing { xxx <cmap-enum-name> | <cmap-dce-name> | zzz <cmap-name-hque> } [
insert-before type queuingl yyy <xomap-enum-name> ]
```

Syntax Description

xxx	xxx
yyy	(Optional) yyy
zzz	zzz
no	(Optional) Negate a command or set its defaults
class	Policy Criteria
type	Specify the type of class
queuing	Match on Queuing class
<i>cmap-enum-name</i>	
<i>cmap-dce-name</i>	Queuing class-map name
<i>cmap-name-hque</i>	Hierarchical class-map name
insert-before	(Optional) Insert this class before another class
queuingl	(Optional) Insert before Queuing class
<i>xomap-enum-name</i>	(Optional)

Command Mode

- /exec/configure/policy-map/type/queuing

clean ip bfd

clean ip bfd

Syntax Description

clean	Clean internal datastructures
ip	IP related information
bfd	clean ip bfd datastructures

Command Mode

- /exec

clean ipv6 bfd

clean ipv6 bfd

Syntax Description

clean	Clean internal datastructures
ipv6	IPV6 related information
bfd	clean ip bfd datastructures

Command Mode

- /exec

clear

```
clear { { ip eigrp [ <eigrp-ptag> ] topology { { <address> <mask> } | { <prefix> } } [ vrf { <vrf-name> |
<vrf-known-name> | all } ] } | { ipv6 eigrp [ <eigrp-ptag> ] topology { <ipv6-prefix> } [ vrf { <vrf-name> |
<vrf-known-name> | all } ] } }
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
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
topology	Clear IP-EIGRP topology table entry
<i>address</i>	Network to display information about
<i>mask</i>	Network mask
<i>prefix</i>	IP prefix <network>/<length>, e.g., 192.168.0.0/16
<i>eigrp-ptag</i>	(Optional)

Command Mode

- /exec

clear

```
clear { { ip eigrp [ <eigrp-ptag> ] neighbors { * | <address> | <interface> } [ soft ] [ no-goodbye ] [ vrf {
<vrf-name> | <vrf-known-name> | all } ] } | { ipv6 eigrp [ <eigrp-ptag> ] neighbors { * | <ipv6-addr> |
<interface> } [ soft ] [ no-goodbye ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] } }
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
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
neighbors	Clear EIGRP neighbors
*	Clear all EIGRP neighbors
<i>address</i>	IP-EIGRP neighbor address
<i>interface</i>	Interface
soft	(Optional) Soft reset
no-goodbye	(Optional) No goodbye
<i>eigrp-ptag</i>	(Optional)

Command Mode

- /exec

clear

```
clear { { ipv6 route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] | { routing [ vrf { <vrf-name> |
<vrf-known-name> } ] ipv6 [ unicast ] [ topology <topology-name> ] } } { <all> | { { <ipv6-addr> |
<ipv6-prefix> } [ <nh-addr> <nh-interface> ] } } [ no-ufdm ]
```

Syntax Description

clear	Reset functions
route	Clear routing information
routing	Clear routing information
vrf	(Optional) Clear 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	Clear IPv6 commands
unicast	(Optional) Clear unicast information
topology	(Optional) Clear per-topology information
<i>topology-name</i>	(Optional) Topology name
all	Clear all routes
<i>nh-interface</i>	(Optional) Interface Name
no-ufdm	(Optional) Do not tell UFDm about the change

Command Mode

- /exec

clear

```
clear { { ip route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] | { routing [ vrf { <vrf-name> | <vrf-known-name> } ] [ ip | ipv4 ] [ unicast ] [ topology <topology-name> ] } } { <all> | { { <ip-addr> | <ip-prefix> } [ <nh-addr> | <nh-addr-v6> ] [ <nh-interface> ] } } [ no-ufdm ]
```

Syntax Description

clear	Reset functions
route	Clear routing information
routing	Clear routing information
vrf	(Optional) Clear 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	Clear IP commands
ipv4	(Optional) Clear IP commands
unicast	(Optional) Clear unicast information
topology	(Optional) Clear per-topology information
<i>topology-name</i>	(Optional) Topology name
all	Clear all routes
<i>ip-addr</i>	Clear single host route
<i>ip-prefix</i>	Clear single exact match route
<i>nh-addr</i>	(Optional) Clear single path
<i>nh-interface</i>	(Optional) Interface Name
no-ufdm	(Optional) Do not tell UFDm about the change

Command Mode

- /exec

clear aaa local user blocked username

```
clear aaa local user blocked { username <s0> | all }
```

Syntax Description

clear	Reset functions
aaa	Configure aaa functions
local	Local username
user	Local system user
blocked	Clear blocked user
username	Blocked username
<i>s0</i>	Enter the username
all	Clear all the blocked users

Command Mode

- /exec

clear access-list counters

```
clear [ <ip_ipv6_mac> ] access-list counters [ <name> ]
```

Syntax Description

clear	Reset functions
<i>ip_ipv6_mac</i>	(Optional) IP/IPv6/MAC
access-list	Clear access list statistical information
counters	Clear access list counters
<i>name</i>	(Optional) List name

Command Mode

- /exec

clear access-list hardware counters

clear access-list hardware counters [module <module>]

Syntax Description

clear	Reset functions
access-list	Clear access list statistical information
hardware	hardware information
counters	Clear access list counters
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number

Command Mode

- /exec

clear access-list ipsg stats

clear access-list ipsg stats [module <module>] [instance <instance_number>]

Syntax Description

clear	Reset functions
access-list	access-list
ipsg	ipsg
stats	Clear Statistics of IPSG drop entries
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
instance	(Optional) ASIC Instance Number
<i>instance_number</i>	(Optional) ASIC Instance Number in Decimal

Command Mode

- /exec

clear accounting log

clear accounting log

Syntax Description

clear	Reset functions
accounting	Clear accounting log(s) in all vdc's
log	Clear the accounting log(s) in all vdc's

Command Mode

- /exec

clear aclqos cl-qos

clear aclqos cl-qos

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
cl-qos	cl-qos logs of ACLQOS

Command Mode

- /exec

clear aclqos fab

clear aclqos fab

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
fab	Fabric logs of ACLQOS

Command Mode

- /exec

clear aclqos fc

clear aclqos fc

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
fc	fc logs of ACLQOS

Command Mode

- /exec

clear aclqos libdrv

clear aclqos libdrv

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
libdrv	libdrv logs of ACLQOS

Command Mode

- /exec

clear aclqos map

clear aclqos map

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
map	map logs of ACLQOS

Command Mode

- /exec

clear aclqos merge

clear aclqos merge

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
merge	merge logs of ACLQOS

Command Mode

- /exec

clear aclqos pl

clear aclqos pl

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
pl	pl logs of ACLQOS

Command Mode

- /exec

clear aclqos ppf-parse

clear aclqos ppf-parse

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
ppf-parse	ppf-parse logs of ACLQOS

Command Mode

- /exec

clear aclqos ppf

clear aclqos ppf

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
ppf	ppf logs of ACLQOS

Command Mode

- /exec

clear aclqos qng-hw

clear aclqos qng-hw

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
qng-hw	Qng logs of ACLQOS

Command Mode

- /exec

clear aclqos qng

clear aclqos qng

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
qng	Qng logs of ACLQOS

Command Mode

- /exec

clear aclqos rl

clear aclqos rl

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
rl	RL logs of ACLQOS

Command Mode

- /exec

clear aclqos rm

clear aclqos rm

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
rm	RM logs of ACLQOS

Command Mode

- /exec

clear aclqos sch

clear aclqos sch

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
sch	Sch logs of ACLQOS

Command Mode

- /exec

clear aclqos stats

clear aclqos stats

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
stats	stats logs of ACLQOS

Command Mode

- /exec

clear aclqos tbl

clear aclqos tbl

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
tbl	tbl logs of ACLQOS

Command Mode

- /exec

clear aclqos trace-detail

clear aclqos trace-detail

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
trace-detail	detail logs of ACLQOS

Command Mode

- /exec

clear aclqos trace

clear aclqos trace

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
trace	trace logs of ACLQOS

Command Mode

- /exec

clear aclqos uf

clear aclqos uf

Syntax Description

clear	Reset functions
aclqos	Configure aclqos debug
uf	UF logs of ACLQOS

Command Mode

- /exec

clear bfd statistics

clear bfd statistics

Syntax Description

clear	Clear
bfd	bfd
statistics	statistics

Command Mode

- /exec

clear bgp

```
clear bgp { 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 |
vpnv6 } 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 } } } }
```

Syntax Description

clear	Reset functions
ipv4	Clear IPv4 address-family
ipv6	Clear IPv6 address-family
vpnv4	Clear VPNv4 address-family
vpnv6	Clear VPNv6 address-family
bgp	Clear BGP sessions
unicast	Clear unicast address-family
multicast	Clear multicast address-family
policy	Clear policy related information
statistics	Clear Route Filter statistics
redistribute	Statistics for redistribution
isis	(Optional) ISO IS-IS
ospf	(Optional) Open Shortest Path First (OSPF)
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)
tag	(Optional) Source protocol tag
neighbor	Clear neighbor specific counters
neighbor-id	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	Clear dampening info
network	Configured IP prefix to advertise
aggregate-address	Configured BGP aggregate prefixes
suppress-map	Statistics of suppress policy
advertise-map	Statistics of advertise policy
ip-addr	IP network advertised
mask	Configured mask of the IP prefix advertised
ip-mask	Dotted 4-octet mask
ip-prefix	IP prefix in CIDR format

Command Mode

- /exec

clear bgp bmp stats server

```
clear bgp bmp stats server { <server-id> | all }
```

Syntax Description

clear	Reset functions
bgp	Clear BGP sessions
bmp	Clear BMP
stats	Server Stats
server	BMP Server
<i>server-id</i>	Server ID
all	All BMP Servers

Command Mode

- /exec

clear bgp event-history

clear bgp event-history { <bgp-event-hist> | detail | periodic | errors | objstore | all | msgs }

Syntax Description

clear	Reset functions
bgp	Clear BGP sessions
event-history	Clear event-history buffers
<i>bgp-event-hist</i>	Event History
errors	Show error logs of BGP
objstore	Show objstore logs of BGP
periodic	Show periodic logs of BGP
detail	Show detailed event logs
all	All event history buffers
msgs	Clear message logs of BGP

Command Mode

- /exec

clear bgp private

```
clear bgp private { all | global | threads | session | debug | io | memory | af | damp | lists | attr [ <ip-prefix> |
<ipv6-prefix> ] | rpm-info [ <rpm-name> { <ip-prefix> | <ipv6-prefix> } ] | neighbor { <neighbor-id> |
<ipv6-neighbor-id> } | slab | mqstat | ipc | rnh | rpm-attribute-cache | rpm-comm-attr-cache | peer-template
<peer-template-name> | aggregates [ summary ] | bestpath }
```

Syntax Description

clear	Reset functions
bgp	Clear BGP sessions
private	Clear internal BGP counters
all	Clear all info
global	Clear global info
threads	Clear thread info
session	Clear session info
debug	Clear debug info
io	Clear IO info
memory	Clear memory info
af	Clear AF info
damp	Clear dampening info
lists	Clear BGP internal lists
attr	Clear BGP attributes
rpm-info	Clear BGP policy outbound info
<i>ip-prefix</i>	(Optional) Clear attribute for a prefix
neighbor	Clear neighbor specific counters
<i>neighbor-id</i>	Neighbor IP address
<i>rpm-name</i>	(Optional) Route-map name
slab	Clear information about SLABs used
mqstat	Clear message queue stats
ipc	Clear ipc information
rnh	Clear recursive next hops

aggregates	Clear information about aggregates
rpm-attribute-cache	Clear rpm attribute cache statistics
rpm-comm-attr-cache	Clear rpm community attribute cache statistics
peer-template	Clear information about a peer-template
bestpath	Clear internal information about bestpath
summary	(Optional) Summary only
<i>peer-template-name</i>	Peer-template name

Command Mode

- /exec

clear bootvar log

clear bootvar log

Syntax Description

clear	Reset functions
bootvar	Clear the bootvar log
log	Clear the bootvar log

Command Mode

- /exec

clear cdp counters

```
clear cdp { counters [ interface <if0> ] | table [ interface1 <if1> ] }
```

Syntax Description

clear	Reset functions
cdp	Cisco Discovery Protocol
counters	Clear CDP counters on all interfaces
interface	(Optional) Clear CDP counters on an interface
<i>if0</i>	(Optional)
table	Clear CDP cache on all interfaces
interface1	(Optional) Clear CDP cache on an interface
<i>if1</i>	(Optional)

Command Mode

- /exec

clear checkpoint database

clear checkpoint database [user | system]

Syntax Description

clear	Reset functions
checkpoint	Clear configuration rollback checkpoint
database	Clear configuration rollback checkpoint database
user	(Optional) Clear configuration rollback checkpoint database for user checkpoints
system	(Optional) Clear configuration rollback checkpoint database for system checkpoints

Command Mode

- /exec

clear cli history

clear cli history

Syntax Description

clear	Reset functions
cli	debug cli
history	history of cli commands

Command Mode

- /exec

clear clis event-history objstr

clear clis event-history { objstr | objstr-errors }

Syntax Description

clear	Reset functions
clis	cli server
event-history	Event history logs for clis
objstr	Log of Object Store events
objstr-errors	Log of Object Store error events

Command Mode

- /exec

clear controller accounting log

clear controller <ctrl-id> accounting log

Syntax Description

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

Command Mode

- /exec

clear copp statistics

clear copp statistics

Syntax Description

clear	Reset functions
copp	Clear policy information for copp
statistics	Clear statistics

Command Mode

- /exec

clear cores

clear cores

Syntax Description

clear	Reset functions
cores	clear all core dumps for the switch

Command Mode

- /exec

clear cores archive

clear cores archive [file <s0>]

Syntax Description

clear	Reset functions
cores	clear all cores for this vdc
archive	clear all core dump files for this vdc from logflash on this module
file	(Optional) delete a core file on logflash
s0	(Optional) Name of file in directory 'core

Command Mode

- /exec

clear counters

clear counters

Syntax Description

clear	Reset functions
counters	Clear counters

Command Mode

- /exec

clear counters buffers

```
clear counters buffers [ module <module> [ instance <instance> ] ] [ __readonly__ <clear_valid> ]
```

Syntax Description

clear	Reset functions
counters	Clear counters
buffers	Clear system buffer max cell usage counter
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
instance	(Optional) ASIC Instance Number
<i>instance</i>	(Optional) ASIC Instance Number in Decimal
<u>__readonly__</u>	(Optional) Read Only
<i>clear_valid</i>	(Optional) Clear

Command Mode

- /exec

clear counters interface

clear counters interface <ifindex>

Syntax Description

clear	Reset functions
counters	Clear counters
interface	Clear interface counters
<i>ifindex</i>	Clear interface counters

Command Mode

- /exec

clear counters interface all

clear counters interface all

Syntax Description

clear	Reset functions
counters	Clear counters
interface	Clear interface counters
all	Clear all interface counters

Command Mode

- /exec

clear counters interface snmp

clear counters interface <ifindex> snmp

Syntax Description

clear	Reset functions
counters	Clear counters
interface	Clear interface counters
<i>ifindex</i>	Clear interface counters
snmp	Clear snmp interface counters

Command Mode

- /exec

clear counters mpls strip

clear counters mpls strip

Syntax Description

clear	Reset functions
mpls	Configure MPLS settings
strip	Stripping of MPLS headers
counters	stats/counters for labels

Command Mode

- /exec

clear counters tah-buffers

```
clear counters tah-buffers [ module <module> ] [ { instance <instance> | { unit <unit> slice <slice> } } ]
```

Syntax Description

clear	Reset functions
counters	Clear counters
tah-buffers	Clear system buffer max cell usage counter
instance	(Optional) ASIC Instance Number
<i>instance</i>	(Optional) ASIC Instance Number in Decimal
unit	(Optional) Asic Number
<i>unit</i>	(Optional) Asic Number on the module
slice	(Optional) slice num on asic
<i>slice</i>	(Optional) slice number on asic
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number

Command Mode

- /exec

clear debug-logfile

clear debug-logfile <s0>

Syntax Description

clear	Reset functions
debug-logfile	Remove the debug logfile
s0	Provide name of the file

Command Mode

- /exec

clear debug logfile

clear debug logfile <s0>

Syntax Description

clear	Reset functions
debug	Debugging functions
logfile	Remove the debug logfile
<i>s0</i>	Provide name of the file

Command Mode

- /exec

clear dot1x all

```
{ clear dot1x all } | { clear dot1x interface <if> }
```

Syntax Description

clear	Reset functions
dot1x	dot1x configuration commands
all	authenticator instances on all interfaces
<i>if</i>	target interface

Command Mode

- /exec

clear dot1x supplicant all

```
{ clear dot1x supplicant all } | { clear dot1x supplicant interface <if> }
```

Syntax Description

clear	Reset functions
dot1x	dot1x configuration commands
all	instances on all interfaces
supplicant	802.1x supplicant
<i>if</i>	target interface

Command Mode

- /exec

clear ecp statistics

clear ecp statistics

Syntax Description

clear	Reset functions
ecp	ECP (Edge Control Protocol)
statistics	Clear ECP Statistics

Command Mode

- /exec

clear eigrp event-history

clear eigrp [<eigrp-ptag>] event-history [cli | notifications | all]

Syntax Description

clear	Reset functions
eigrp	EIGRP clear commands
<i>eigrp-ptag</i>	(Optional) Process tag
event-history	Clear the event history buffers
notifications	(Optional) EIGRP Notifications
cli	(Optional) EIGRP CLI related events
all	(Optional) All event history buffers

Command Mode

- /exec

clear evb hosts

```
clear evb { hosts | vsi } [ force-standby ] *
```

Syntax Description

clear	Reset functions
evb	EVB (Edge Virtual Bridge)
hosts	Clear EVB host information
vsi	Clear EVB vsi information
force-standby	(Optional) Force to clear standby entries
*	Clear all entries (Should be a * character)

Command Mode

- /exec

clear evb hosts

```
clear evb { hosts | vsi } [ force-standby ] [ { [ mac <mac-addr> | interface <intf-name> | vlan <vlan-id> | vni
<vni-id> | ip <ip-addr> | ipv6 <ipv6-addr> ] + } ]
```

Syntax Description

clear	Reset functions
evb	EVb (Edge Virtual Bridge)
hosts	Clear EVb host information
vsi	Clear EVb vsi information
force-standby	(Optional) Force to clear standby entries
mac	(Optional) Clear entries by filtering MAC address
<i>mac-addr</i>	(Optional) MAC Address
interface	(Optional) Clear entries by filtering interface
<i>intf-name</i>	(Optional) Interface name
vlan	(Optional) Clear entries by filtering VLAN
<i>vlan-id</i>	(Optional) VLAN ID
vni	(Optional) Clear entries by filtering VNI
<i>vni-id</i>	(Optional) VNI
ip	(Optional) Clear entries by filtering IP address
ipv6	(Optional) Clear entries by filtering IPv6 address
<i>ip-addr</i>	(Optional) IPV4 host address

Command Mode

- /exec

clear evb internal adjacency

clear evb internal adjacency

Syntax Description

clear	Reset functions
evb	EVB (Edge Virtual Bridge)
internal	Clear EVB internal information
adjacency	Clear EVB adjacency state

Command Mode

- /exec

clear evb internal event-history

clear evb internal event-history { all | <evt-hist-subsystem> }

Syntax Description

clear	Reset functions
evb	Clear EVB information
internal	Clear EVB internal information
event-history	Clear EVB event history buffers
all	All EVB logs
<i>evt-hist-subsystem</i>	EVB event history buffers

Command Mode

- /exec

clear evb statistics

clear evb statistics

Syntax Description

clear	Reset functions
evb	EVB (Edge Virtual Bridge)
statistics	Clear EVB Statistics

Command Mode

- /exec

clear fabric database dci vrf node-id

```
clear fabric database dci vrf { <vrf-name> | <vrf-known-name> } node-id <mgmt-ip-address> [ peer-id
<peer-ip-address> ]
```

Syntax Description

clear	Reset functions
fabric	Fabric
database	Fabric Database
dci	DCI profile
vrf	Display per-VRF information
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name
node-id	management ip address of this node
<i>mgmt-ip-address</i>	IP address in CIDR format
peer-id	(Optional) management ip address of peer
<i>peer-ip-address</i>	(Optional) IP address in CIDR format

Command Mode

- /exec

clear fabric database host all vni

```
{ clear fabric database host { all | { vni <vni-id> } | { dot1q <vlan-id> } } [ re-sync ] } | { clear fabric database host vni <vni-id> re-apply } | { clear fabric database client uuid <uuid> }
```

Syntax Description

clear	Reset functions
fabric	
database	
host	Active Host to profile mapping
vni	Virtual Network Identifier
<i>vni-id</i>	
dot1q	Dot1Q Encapsulation
<i>vlan-id</i>	
re-apply	Download new config parameters and re-apply
re-sync	(Optional) Force to sync the host entry
all	Remove all entries
client	Auto-config client
uuid	Auto-config client UUID
<i>uuid</i>	UUID

Command Mode

- /exec

clear fabric database host statistics

clear fabric database host statistics

Syntax Description

clear	Reset functions
fabric	Fabric
database	Fabric Database
host	Auto-configured Hosts
statistics	Statistics

Command Mode

- /exec

clear fabric database include-vrf

clear fabric database include-vrf <vrf-name>

Syntax Description

clear	Reset functions
fabric	
database	
include-vrf	Include VRF name
<i>vrf-name</i>	VRF name

Command Mode

- /exec

clear fabric database statistics

```
clear fabric database statistics [ type { network | profile | cabling | partition | bl-dci } [ server-proto ldap { ipv6
<ipv6addr> | ip <ipaddr> | host <hostname> } [ port <portnum> ] [ vrf { <vrf-name> | <vrf-known-name> }
]]]
```

Syntax Description

clear	Reset functions
fabric	Fabric
database	Clear Fabric Database
statistics	Clear 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
server-proto	(Optional) Enter database protocol
ldap	(Optional) Use LDAP
ipv6	(Optional) IPv6 address of server
ip	(Optional) IP address of server
<i>ipaddr</i>	(Optional) Enter IP address of server
host	(Optional) Hostname of server
<i>hostname</i>	(Optional) Enter hostname of server
port	(Optional) Port
<i>portnum</i>	(Optional) Enter port number
vrf	(Optional) vrf context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

clear fabric database statistics type server-proto xmpp ip

```
clear fabric database statistics type { network | profile | cabling | partition | bl-dci } server-proto xmpp { ip
<ipaddr> | host <hostname> } [ port <portnum> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

clear	Reset functions
fabric	Fabric
database	Clear Fabric Database
statistics	Clear database statistics
type	Enter database type
network	Network Database
profile	Port or Switch Profile Database
cabling	Cable Management Database
partition	Partition Database
bl-dci	Border Leaf - DCI
server-proto	Enter database protocol
xmpp	Use XMPP
ip	IP address of server
<i>ipaddr</i>	Enter IP address of server
host	Hostname of server
<i>hostname</i>	Enter hostname of server
port	(Optional) Port
<i>portnum</i>	(Optional) Enter port number
vrf	(Optional) vrf context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

clear fabric database statistics type server-proto radius group

clear fabric database statistics type { network | profile | cabling | partition | bl-dci } server-proto radius group <groupname>

Syntax Description

clear	Reset functions
fabric	Fabric
database	Clear Fabric Database
statistics	Clear database statistics
type	Enter database type
network	Network Database
profile	Port or Switch Profile Database
cabling	Cable Management Database
partition	Partition Database
bl-dci	Border Leaf - DCI
server-proto	Enter database protocol
radius	Use RADIUS
group	AAA group
<i>groupname</i>	Enter AAA group name of servers

Command Mode

- /exec

clear fabric multicast event-history

clear fabric multicast event-history [<ngmvpn-event-hist-buf-name>]

Syntax Description

clear	Reset functions
fabric	Fabric
multicast	Multicast information
event-history	Clear event history buffers
<i>ngmvpn-event-hist-buf-name</i>	(Optional) Event history buffer instance

Command Mode

- /exec

clear fc2

clear fc2 [counters]

Syntax Description

clear	Reset functions
fc2	Clear FC2 Port Counters
counters	(Optional) Clear All FC2/FCoE Port Counters

Command Mode

- /exec

clear flow cache

clear flow cache [ipv4 | ipv6 | ce] [force-export]

Syntax Description

clear	Reset functions
flow	NetFlow information
cache	Clear only cache contents
ipv4	(Optional) Show ipv4 cache entries
ipv6	(Optional) Show ipv6 cache entries
ce	(Optional) Show ce cache entries
force-export	(Optional) Force the cache entries to be exported

Command Mode

- /exec

clear flow exporter

clear flow exporter [name] <exportername>

Syntax Description

clear	Reset functions
flow	NetFlow information
exporter	Clear NetFlow exporter statistics
name	(Optional) The name of the exporter
<i>exportername</i>	Specify an exporter

Command Mode

- /exec

clear flow internal debug counters

clear flow internal debug counters

Syntax Description

clear	Clear running system information
flow	Show information about netflow
internal	Show internal nfm information
debug	Debug information
counters	Counters

Command Mode

- /exec

clear forwarding adjacency mpls stats

```
clear forwarding [ ip | ipv4 ] adjacency mpls stats [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ <aif> ] [ <anh> ] [ module <module> ]
```

Syntax Description

clear	Reset functions
forwarding	forwarding
adjacency	display adjacency information
mpls	mpls adjacency information
stats	Clear adjacency statistics
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
ip	(Optional) ipv4
ipv4	(Optional) ipv4
<i>aif</i>	(Optional) adjacency output interface
<i>anh</i>	(Optional) adjacency next hop
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding cumulative counter

clear forwarding cumulative counter [all | v4_ucast_add | v4_ucast_del | v6_ucast_add | v6_ucast_del] [module <module>]

Syntax Description

clear	clear
forwarding	forwarding information
cumulative	accumulated prefix add/delete count
counter	counter
all	(Optional) all
v4_ucast_add	(Optional) IPv4 unicast route add count
v4_ucast_del	(Optional) IPv4 unicast route delete count
v6_ucast_add	(Optional) IPv6 unicast route add count
v6_ucast_del	(Optional) IPv6 unicast route delete count
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding internal message counts

clear forwarding internal message counts [module <module>]

Syntax Description

clear	clear
forwarding	display fib information
internal	internal information
message	display internal message counts
counts	display internal message counts
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding internal unicast counts

```
clear forwarding internal unicast counts [ vdc { <vdc_id> | all } ] [ module <module> ] [ __readonly__
<err-str><count> ]
```

Syntax Description

clear	
forwarding	display fib information
internal	internal information
unicast	unicast counters
counts	display counts
module	(Optional) slot
<i>module</i>	(Optional) slot number
vdc	(Optional) vdc id
<i>vdc_id</i>	(Optional) vdc id
all	(Optional) all VDCs active on the module
__readonly__	(Optional)

Command Mode

- /exec

clear forwarding ipv4 multicast counters

```
clear forwarding ipv4 multicast counters [ vrf { <vrf-name> | <vrf-known-name> | all } ] { [ group <gaddr>
[ source <saddr> ] ] | [ source <saddr> [ group <gaddr> ] ] } [ module <module> ]
```

Syntax Description

clear	
forwarding	fib information
vrf	(Optional) Specify VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ipv4	Ipv4
multicast	Multicast IPv4 information
counters	
group	(Optional) Multicast IPv4 Group specific info
<i>gaddr</i>	(Optional) Multicast IPv4 Group Address
source	(Optional) Multicast IPv4 Source specific info
<i>saddr</i>	(Optional) Multicast IPv4 Source Address
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding ipv6 adjacency mpls stats

```
clear forwarding ipv6 adjacency mpls stats [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ <aif> ] [ <anh> ] [ module <module> ]
```

Syntax Description

clear	Reset functions
forwarding	forwarding
ipv6	ipv6
adjacency	adjacency information
mpls	mpls adjacency information
stats	Clear adjacency statistics
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
<i>aif</i>	(Optional) adjacency output interface
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding ipv6 multicast counters

```
clear forwarding ipv6 multicast counters [ vrf { <vrf-name> | <vrf-known-name> | all } ] { [ group <gaddr>
[ source <saddr> ] ] | [ source <saddr> [ group <gaddr> ] ] } [ module <module> ]
```

Syntax Description

clear	
forwarding	fib information
vrf	(Optional) Specify VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
all	(Optional) Display information for all VRFs
ipv6	Ipv6
multicast	Multicast IPv6 information
counters	
group	(Optional) Multicast IPv6 Group specific info
source	(Optional) Multicast IPv6 Source specific info
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding l2mcast info l2-oiflist-history

clear forwarding l2mcast info l2-oiflist-history [module <num>]

Syntax Description

clear	Reset functions
forwarding	forwarding
l2mcast	l2mcast
info	L2mcast Internal Info
l2-oiflist-history	L2 oiflist history
module	(Optional) Slot
<i>num</i>	(Optional) Slot number

Command Mode

- /exec

clear forwarding l2mcast info l2-route-history

clear forwarding l2mcast info l2-route-history [module <num>]

Syntax Description

clear	Reset functions
forwarding	forwarding
l2mcast	l2mcast
info	L2mcast Internal Info
l2-route-history	L2 Route history
module	(Optional) Slot
<i>num</i>	(Optional) Slot number

Command Mode

- /exec

clear forwarding l2mcast info l2-xbar-history

clear forwarding l2mcast info l2-xbar-history [module <num>]

Syntax Description

clear	Reset functions
forwarding	forwarding
l2mcast	l2mcast
info	L2mcast Internal Info
l2-xbar-history	L2 Route history
module	(Optional) Slot
<i>num</i>	(Optional) Slot number

Command Mode

- /exec

clear forwarding l2mcast info statistics

clear forwarding l2mcast info statistics [module <num>]

Syntax Description

clear	Clear all entries
forwarding	Forwarding Information
l2mcast	Layer-2 multicast
info	L2mcast Internal Info
statistics	L2mcast Internal Info Statistics
module	(Optional) Slot
<i>num</i>	(Optional) Slot number

Command Mode

- /exec

clear forwarding l2vpn trace member-history

clear forwarding l2vpn trace member-history

Syntax Description

clear	Reset functions
forwarding	forwarding
l2vpn	L2VPN
trace	internal trace
member-history	member history

Command Mode

- /exec

clear forwarding mpls drop-stats

clear forwarding mpls drop-stats

Syntax Description

clear	Clear Statistics
forwarding	forwarding
mpls	mpls forwarding
drop-stats	Clear dropped packets stats

Command Mode

- /exec

clear forwarding mpls stats

```
clear forwarding mpls stats [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] [ table <table_id> ] [ [ label
<label> | <prefix> | <v6prefix> ] | [ label-space <label-space-id> ] ] [ module <module> ]
```

Syntax Description

clear	Reset functions
forwarding	forwarding
mpls	mpls
stats	Clear Input Statistics
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</i>	(Optional) mpls label value
<i>prefix</i>	(Optional) Labels for single exact match route
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding mpls trace adj-history

clear forwarding mpls trace adj-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
mpls	mpls
trace	internal trace
adj-history	adjacency history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding mpls trace ecmp-history

clear forwarding mpls trace ecmp-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
mpls	mpls
trace	internal trace
ecmp-history	ECMP history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding mpls trace label-history

clear forwarding mpls trace label-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
mpls	mpls
trace	internal trace
label-history	label history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding mpls trace te-history

clear forwarding mpls trace te-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
mpls	mpls
trace	internal trace
te-history	TE history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding trace ecmp-history

clear forwarding trace ecmp-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
ecmp-history	ECMP history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding trace mfib oif-history

clear forwarding trace mfib oif-history

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
mfib	mfib entries
oif-history	oif history

Command Mode

- /exec

clear forwarding trace mfib oiflist-history

clear forwarding trace mfib oiflist-history

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
mfib	mfib entries
oiflist-history	oiflist history

Command Mode

- /exec

clear forwarding trace mfib otv oif-history

clear forwarding trace mfib otv oif-history

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
mfib	mfib entries
otv	otv entries
oif-history	oif history

Command Mode

- /exec

clear forwarding trace mfib otv oiflist-history

clear forwarding trace mfib otv oiflist-history

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
mfib	mfib entries
otv	otv entries
oiflist-history	oiflist history

Command Mode

- /exec

clear forwarding trace mfib otv v4-route-history

clear forwarding trace mfib otv v4-route-history

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
mfib	mfib entries
otv	otv entries
v4-route-history	v4 route history

Command Mode

- /exec

clear forwarding trace mfib otv v6-route-history

clear forwarding trace mfib otv v6-route-history

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
mfib	mfib entries
otv	otv mfib entries
v6-route-history	v6 route history

Command Mode

- /exec

clear forwarding trace mfib platform oiflist-history

clear forwarding trace mfib platform oiflist-history

Syntax Description

clear	Clear
forwarding	Forwarding information
trace	internal trace
mfib	mfib entries
platform	platform information
oiflist-history	Oiflist history

Command Mode

- /exec

clear forwarding trace mfib v4-route-history

clear forwarding trace mfib v4-route-history

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
mfib	clear mfib entries
v4-route-history	v4 route history

Command Mode

- /exec

clear forwarding trace mfib v6-route-history

clear forwarding trace mfib v6-route-history

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
mfib	mfib entries
v6-route-history	v6 route history

Command Mode

- /exec

clear forwarding trace nve-ir-peer-history

clear forwarding trace nve-ir-peer-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
nve-ir-peer-history	NVE ir-peer history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding trace nve-l3-vni-history

clear forwarding trace nve-l3-vni-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
nve-l3-vni-history	NVE L3 VNI history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding trace nve-peer-history

clear forwarding trace nve-peer-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
nve-peer-history	NVE peer history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding trace otv-adj-history

clear forwarding trace otv-adj-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
otv-adj-history	otv adj history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding trace otv-vlan-history

clear forwarding trace otv-vlan-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
otv-vlan-history	otv vlan prefix history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding trace v4-adj-history

clear forwarding trace v4-adj-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
v4-adj-history	V4 adjacency history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding trace v4-pfx-history

clear forwarding trace v4-pfx-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
v4-pfx-history	V4 prefix history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding trace v4-rnh-history

clear forwarding trace v4-rnh-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
v4-rnh-history	V4 rnh history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding trace v6-adj-history

clear forwarding trace v6-adj-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
v6-adj-history	V6 adjacency history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding trace v6-pfx-history

clear forwarding trace v6-pfx-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
v6-pfx-history	V6 prefix history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding trace v6-rnh-history

clear forwarding trace v6-rnh-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
v6-rnh-history	V6 rnh history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear forwarding trace vobj-history

clear forwarding trace vobj-history [module <module>]

Syntax Description

clear	Reset functions
forwarding	forwarding
trace	internal trace
vobj-history	vobj history
module	(Optional) slot
<i>module</i>	(Optional) slot number

Command Mode

- /exec

clear frame traffic

clear frame traffic

Syntax Description

clear	Reset functions
frame	Clear layer-2 frame statistics to/from the Route Processor
traffic	Clear layer-2 frame statistics to/from the Route Processor

Command Mode

- /exec

clear fs-daemon log

clear fs-daemon log

Syntax Description

clear	Reset functions
fs-daemon	Clear the fs daemon log
log	Clear the fs daemon log

Command Mode

- /exec

clear hardware flow ip

```
clear hardware flow ip [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ force-export ] [ module <num> ]
```

Syntax Description

clear	Reset functions
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
force-export	(Optional) Force to export data to collector
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

clear hardware flow ipmac

```
clear hardware flow ipmac [ { { profile <prof_id> } | { vlan <vlan_id> } | { interface <interface> } } ] [
instance <inst> ] [ module <num> ]
```

Syntax Description

clear	Reset functions
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
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

clear hardware flow ipv6

```
clear hardware flow ipv6 [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ force-export ] [ module <num> ]
```

Syntax Description

clear	Reset functions
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
force-export	(Optional) Force to export data to collector
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

clear hardware flow l2

```
clear hardware flow l2 [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } } ] [ instance
<inst> ] [ force-export ] [ module <num> ]
```

Syntax Description

clear	Reset functions
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
force-export	(Optional) Force to export data to collector
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

clear hardware flow mpls

```
clear hardware flow mpls [ { { monitor <mname> } | { profile <prof_id> } | { vlan <vlan_id> } | { interface
<interface> } } ] [ instance <inst> ] [ force-export ] [ module <num> ]
```

Syntax Description

clear	Reset functions
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
force-export	(Optional) Force to export data to collector
module	(Optional) Line card module
<i>num</i>	(Optional) slot number

Command Mode

- /exec

clear hardware internal fabric interface-all asic counters

clear hardware internal fabric interface-all asic counters [module <module>]

Syntax Description

clear	Reset functions
hardware	Show hardware information
internal	Show hardware internal information
fabric	clear fabric interface counters
interface-all	Clear counters for fabric interfaces
asic	Clear interface asic counters
counters	Clear interface counters
module	(Optional) Limit clear to single module
<i>module</i>	(Optional) Slot/module number

Command Mode

- /exec

clear hardware internal forwarding adjacency statistics default-route

clear hardware internal forwarding adjacency statistics default-route [module <module>]

Syntax Description

clear	Show running system information
hardware	SHOW_HW_HELP
internal	SHOW_HW_INT_HELP
forwarding	Show hardware information for forwarding Asic
adjacency	display adjacency utilization
statistics	Show hardware statistics
default-route	Show for adjacency of default route
module	(Optional) slot
<i>module</i>	(Optional) Slot/module number

Command Mode

- /exec

clear hardware internal forwarding l3 counters

clear hardware internal forwarding l3 counters [module <module>]

Syntax Description

clear	clear running system information
hardware	clear hardware usage settings
internal	SHOW_HW_INT_HELP
forwarding	clear forwarding related settings
l3	Layer-3
counters	clear Layer-3 Counters
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number

Command Mode

- /exec

clear hardware internal interface-all asic counters

clear hardware internal interface-all asic counters [module <module>]

Syntax Description

clear	Reset functions
hardware	Show hardware information
internal	Show hardware internal information
interface-all	Clear counters for front panel interfaces
asic	Clear interface asic counters
counters	Clear interface counters
module	(Optional) Limit clear to single module
<i>module</i>	(Optional) Slot/module number

Command Mode

- /exec

clear hardware internal ns interrupts

clear hardware internal ns interrupts

Syntax Description

clear	Reset functions
hardware	Clear hardware information
internal	Clear hardware internal information
ns	Northstar
interrupts	Interrupts

Command Mode

- /exec

clear hardware ip verify

```
clear hardware [ forwarding ] ip verify { all | address { source { broadcast | multicast } | class-e | destination
{ zero } | identical | reserved } | checksum | protocol | fragment | length { minimum | consistent | maximum {
max-frag | udp | max-tcp } } | tcp { tiny-frag } | version } [ module <module> ]
```

Syntax Description

clear	Reset functions
hardware	Show hardware information
forwarding	(Optional) Show hardware information for forwarding path
ip	IPv4 and IPv6 protocols
verify	IP packet validation checks in hardware
class-e	Class E IDS check
all	All IP packet validation checks
address	IPv4 and IPv6 Source and destination address validation
source	Check source address
broadcast	Source address is 255.255.255.255
multicast	Source address is 224.x.x.x
destination	Check destination address
zero	Destination address is 0.0.0.0
identical	Same IP SA and DA
reserved	Source address is 127.x.x.x
checksum	Verify IPv4 and IPv6 packet checksum
protocol	Verify IP protocol
fragment	Check IPv4 and IPv6 fragment with non-zero offset and DF bit active
length	Validate IPv4 packet header and payload length
minimum	Minimum IPv4 header length
consistent	Actual frame size is equal to or more than IPv4 length plus ethernet header
maximum	Check max fragment offset and payload length
max-frag	Fragment offset field value

udp	Maximum UDP length has to be less than IPv4 payload length
max-tcp	Maximum TCP length has to be less than IPv4 payload length
tcp	Validate TCP packet header
tiny-frag	Check TCP tiny fragment
version	Must be 4 for an ethertype of IPv4 (0x0800)
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec

clear hardware profile buffer monitor

clear hardware profile buffer monitor

Syntax Description

clear	Reset functions
hardware	Clear hardware profile buffer monitor data
profile	profile buffer monitor data
buffer	buffer
monitor	buffer monitor

Command Mode

- /exec

clear hardware profile latency monitor

clear hardware profile latency monitor [interface <intf-num>] [module <module>]

Syntax Description

clear	Reset functions
hardware	Clear hardware profile latency monitor data
profile	profile latency monitor data
latency	latency
monitor	latency monitor
interface	(Optional) clear per-interface latency monitor data
<i>intf-num</i>	(Optional) clear per-interface latency monitor data
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number

Command Mode

- /exec

clear hardware rate-limiter

```
clear hardware rate-limiter { all | layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 <l2-opts> | <opts>
| fl <fl-opts> | span-egress | urpf-fail } [ module <module> ]
```

Syntax Description

clear	Reset functions
hardware	Show hardware information
rate-limiter	Clear Rate-Limiter statistics
all	Clear all Rate-Limiter statistics
layer-3	Layer-3 control and Routed packets
<i>l3-opts</i>	
multicast	Multicast data packets
<i>mcast-opts</i>	
layer-2	Layer-2 control and Bridged packets
<i>l2-opts</i>	
<i>opts</i>	
fl	Control packets from F1 modules to supervisor
<i>fl-opts</i>	
span-egress	SPAN/ERSPAN egress packets
urpf-fail	URPF fail packets
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec

clear hsrp counters clear hsrp state-history

clear hsrp counters [<value>] | clear hsrp state-history [interface <interface-id>] [group <group-id>]

Syntax Description

clear	Reset functions
hsrp	HSRP commands
counters	Internal counters
<i>value</i>	(Optional) Counter to be cleared
state-history	Clear Groups' state history
interface	(Optional) Groups on this interface
<i>interface-id</i>	(Optional) Interface
group	(Optional) Group number
<i>group-id</i>	(Optional) Group Number

Command Mode

- /exec

clear icmpv6 cache

```
clear icmpv6 cache { { interface [ <intf> ] } }
```

Syntax Description

clear	Reset functions
icmpv6	ICMPv6 Commands
cache	Clear icmpv6 cache
interface	Clear icmpv6 interface information
<i>intf</i>	(Optional) Interface name to clear

Command Mode

- /exec

clear install all failed-standby

clear install all failed-standby

Syntax Description

clear	Reset functions
install	Clear the installer log
all	Clear the install all log
failed-standby	Clear the failed-standby log

Command Mode

- /exec

clear install failure-reason

clear install failure-reason

Syntax Description

clear	Reset functions
install	Clear the installer log
failure-reason	Clear the install failure-reason log

Command Mode

- /exec

clear install log-history all

clear install log-history { all | oldest <i0> }

Syntax Description

clear	Reset functions
install	Install related show commands
log-history	Patch installer historical logs
all	Delete complete history log
oldest	oldest Delete the oldest <n> install log-history points
<i>i0</i>	Number of log-history points to delete

Command Mode

- /exec

clear install status

clear install status

Syntax Description

clear	Reset functions
install	Clear the installer log
status	Clear the installer status log

Command Mode

- /exec

clear ip adjacency cache

```
clear ip adjacency cache { { interface [ <intf> ] } }
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
adjacency	Configure Adjmgr
cache	Clear adjacency cache
interface	Clear adjacency interface information
<i>intf</i>	(Optional) Interface name to clear

Command Mode

- /exec

clear ip adjacency no-ufdm

```
clear ip adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <ip-addr> | * } no-ufdm
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
adjacency	Clear Adjacency
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>ip-addr</i>	IPV4 source address
*	Delete all adjacency in this context
no-ufdm	Create inconsistency in adjacency

Command Mode

- /exec

clear ip adjacency statistics

clear ip adjacency statistics

Syntax Description

clear	Reset functions
ip	Clear IP commands
adjacency	Clear Adjacency
statistics	Clear Adjacency Statistics

Command Mode

- /exec

clear ip amt tunnel

```
clear ip amt tunnel [ <address4> <port> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

<i>clear</i>	AMT clear commands
<i>amt</i>	AMT show commands
<i>ip</i>	Display IP information
<i>tunnel</i>	Display tunnel information
<i>vrf</i>	(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

Command Mode

- /exec

clear ip arp

```
clear ip arp [ <interface> | <ip-address> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ force-delete ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	Clear ARP table and statistics
<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) Clear ARP entries for all vrfs
force-delete	(Optional) Clear the entries from ARP table without refresh

Command Mode

- /exec

clear ip arp cache

```
clear ip arp cache { { interface [ <intf> ] } }
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	arp
cache	Clear arp cache
interface	Clear arp interface information
<i>intf</i>	(Optional) Interface name to clear

Command Mode

- /exec

clear ip arp controller-statistics

clear ip arp controller-statistics

Syntax Description

clear	Reset functions
ip	Display IP information
arp	Display ARP table and statistics
controller-statistics	Controller statistics

Command Mode

- /exec

clear ip arp event-history

clear ip arp event-history { packet | event | sync-event | ip-sync-event | control | ha | errors | lcache | lcache-errors | client-event | client-errors | snmp | cli | suppression-event | suppression-errors | controller-errors | dme-event | all } [dump-to-file]

Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	ARP events
event-history	Clear the event history buffers
packet	inst packet logs
event	Internal event logs
sync-event	CFS and MCECM related event logs
ip-sync-event	L3 over vpc related event logs
control	ARP control event logs
ha	HA and GR logs
errors	inst error logs
lcache	lcache logs
lcache-errors	lcache_error logs
client-event	Client_event logs
client-errors	Client_error logs
cli	clear cli logs
snmp	SNMP logs
suppression-event	ARP suppression event logs
suppression-errors	ARP suppression error logs
controller-errors	Controller MAC-IP route error logs
dme-event	ARP DME event logs
all	All event history buffers
dump-to-file	(Optional) Dump the Arp event history logs into the file

Command Mode

clear ip arp event-history

- /exec

clear ip arp inspection log

clear ip arp inspection log

Syntax Description

clear	Reset functions
ip	Clear ip counters
arp	Clear State of ARP features
inspection	Clear State of ARP Inspection
log	Log Buffer

Command Mode

- /exec

clear ip arp inspection statistics vlan

clear ip arp inspection statistics vlan <vlan-id>

Syntax Description

clear	Reset functions
ip	Clear ip counters
arp	Clear State of ARP features
inspection	Clear State of ARP Inspection
statistics	Statistics
vlan	Vlan range
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

Command Mode

- /exec

clear ip arp multihoming-statistics

```
clear ip arp multihoming-statistics [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	Clear ARP table and statistics
<i>interface</i>	(Optional) ARP interface
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) Clear ARP Multihoming statistics for all vrfs

Command Mode

- /exec

clear ip arp static-arps-outside-subnet-count

clear ip arp static-arps-outside-subnet-count

Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	Display ARP table and statistics
static-arps-outside-subnet-count	Clear static ARPs outside subnet count

Command Mode

- /exec

clear ip arp statistics

clear ip arp statistics [<interface>] [vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	Clear ARP table and statistics
<i>interface</i>	(Optional) ARP interface
statistics	Clear 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) Clear ARP statistics for all vrfs

Command Mode

- /exec

clear ip arp suppression-cache statistics

clear ip arp suppression-cache statistics

Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	Clear ARP table and statistics
suppression-cache	ARP-suppression cache
statistics	clear suppression statistics

Command Mode

- /exec

clear ip arp tunnel-statistics

clear ip arp tunnel-statistics

Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	Display ARP table and statistics
tunnel-statistics	Clear ARP statistics for tunneled packets

Command Mode

- /exec

clear ip arp vpc-statistics

clear ip arp vpc-statistics

Syntax Description

clear	Reset functions
ip	Clear IP commands
arp	Display ARP table and statistics
vpc-statistics	Clear ARP vPC statistics

Command Mode

- /exec

clear ip cache

```
clear ip cache { { interface [ <intf> ] } }
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
cache	Clear ip cache
interface	Clear ip interface information
<i>intf</i>	(Optional) Interface name to clear

Command Mode

- /exec

clear ip dhcp global statistics

clear ip dhcp global statistics

Syntax Description

clear	Reset functions
ip	Clear ip counters
dhcp	Clear State of DHCP features
global	Clear State of DHCP global stats
statistics	DHCP snooping statistics

Command Mode

- /exec

clear ip dhcp relay statistics

```
clear ip dhcp relay statistics [ interface <intf> | { interface <intf> serverip <ip-addr-val> [ use-vrf <vrf-name> ] } ]
```

Syntax Description

clear	Reset functions
ip	Clear ip counters
dhcp	Clear State of DHCP features
relay	Clear State of DHCP relay stats
statistics	DHCP Relay statistics
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

Command Mode

- /exec

clear ip dhcp snooping binding

clear ip dhcp snooping binding [{ vlan <vlan-id> mac <mac-addr> ip <ip-addr> interface <interface-id> } |

Syntax Description

clear	Reset functions
ip	Clear ip counters
dhcp	Clear State of DHCP features
snooping	Clear State of DHCP Snooping
binding	DHCP snooping bindings
vlan	(Optional) VLAN
<i>vlan-id</i>	(Optional) VLAN id
mac	(Optional) MAC address
<i>mac-addr</i>	(Optional) MAC address
ip	(Optional) IP address
<i>ip-addr</i>	(Optional) IP address
interface	(Optional) interface
<i>interface-id</i>	(Optional) interface

Command Mode

- /exec

clear ip dhcp snooping statistics

```
clear ip dhcp snooping statistics [ { vlan <vlan-id> interface <intf> } ]
```

Syntax Description

clear	Reset functions
ip	Clear ip counters
dhcp	Clear State of DHCP features
snooping	Clear State of DHCP snooping stats
statistics	DHCP snooping statistics
vlan	(Optional) VLAN
<i>vlan-id</i>	(Optional) VLAN id
interface	(Optional) input interface
<i>intf</i>	(Optional) interface

Command Mode

- /exec

clear ip dns all config

clear ip dns all config

Syntax Description

clear	Clear entries
ip	Configure ip feature
dns	DNS related config
all	All DNS related content
config	Domain-name, name-server, domain-list, sortlist, options, results

Command Mode

- /exec

clear ip dns use-vrf config

clear ip dns use-vrf config

Syntax Description

clear	Clear entries
ip	Configure ip feature
dns	DNS related config
use-vrf	Config with keyword use-vrf
config	Domain-name, name-server, domain-list

Command Mode

- /exec

clear ip eigrp accounting

```
clear { ip | ipv6 } eigrp [ <eigrp-ptag> ] accounting [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
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
accounting	Clear IP-EIGRP accounting statistics

Command Mode

- /exec

clear ip eigrp event-history

clear { ip | ipv6 } eigrp [<eigrp-ptag>] event-history [fsm | packet | rib | all]

Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
<i>eigrp-ptag</i>	(Optional) Process tag
event-history	Clear the event history buffers
fsm	(Optional) FSM log of EIGRP
packet	(Optional) Packet log of EIGRP
rib	(Optional) RIB log of EIGRP
all	(Optional) All event history buffers

Command Mode

- /exec

clear ip eigrp event-history bfd

clear { ip | ipv6 } eigrp [<eigrp-ptag>] event-history bfd

Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
<i>eigrp-ptag</i>	(Optional) Process tag
event-history	Clear the event history buffers
bfd	Show bfd log of EIGRP

Command Mode

- /exec

clear ip eigrp events

clear { ip | ipv6 } eigrp [<eigrp-ptag>] events [vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
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
events	Clear IP-EIGRP event logs

Command Mode

- /exec

clear ip eigrp logging

```
clear { ip | ipv6 } eigrp [ <eigrp-ptag> ] logging [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
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
logging	Stop IP-EIGRP event logging

Command Mode

- /exec

clear ip eigrp redistribution

```
clear { ip | ipv6 } eigrp [ <eigrp-ptag> ] redistribution [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
<i>eigrp-ptag</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
redistribution	Clear EIGRP redistributed information

Command Mode

- /exec

clear ip eigrp route-map statistics redistribute

```
clear ip eigrp [ <eigrp-ptag> ] route-map statistics redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag> |
static | direct | amt | lisp } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
eigrp	EIGRP clear commands
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
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

Command Mode

- /exec

clear ip eigrp traffic

```
clear { ip | ipv6 } eigrp [ <eigrp-ptag> ] traffic [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
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
traffic	Clear IP-EIGRP traffic statistics

Command Mode

- /exec

clear ip ftm statistics

clear ip ftm statistics

Syntax Description

clear	Reset functions
ip	Clear IP commands
ftm	FTM API
statistics	Statistics

Command Mode

- /exec

clear ip igmp event-history

clear ip igmp event-history [<igmp-event-hist-buf-name>]

Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP related information
event-history	Clear event-history buffers
<i>igmp-event-hist-buf-name</i>	(Optional) Event hist buffer name

Command Mode

- /exec

clear ip igmp groups

```
clear ip igmp { groups | route } { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP related information
groups	Route information
route	Route information
all	Clear all routes
<i>group-prefix</i>	Clear all routes within the Group prefix
<i>group</i>	Clear all routes matching the Group
<i>source</i>	(Optional) Clear a (S,G) route
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

clear ip igmp interface statistics

clear ip igmp interface statistics [<interface>]

Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP statistics information
interface	Interface related information
statistics	Packet/internal counter statistics
<i>interface</i>	(Optional) Specific interface only

Command Mode

- /exec

clear ip igmp internal mrib-cache

clear ip igmp internal mrib-cache [vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP related information
internal	Commands for internal use
mrib-cache	clear this vrf mrib-cache and repopulate
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

clear ip igmp snooping event-history

clear ip igmp snooping event-history [<igmp-snoop-event-hist-buf-name>]

Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP Snooping
snooping	Clear IGMP Snooping
event-history	Clear event history buffers
<i>igmp-snoop-event-hist-buf-name</i>	(Optional) Event history buffer name

Command Mode

- /exec

clear ip igmp snooping explicit-tracking

```
clear ip igmp snooping explicit-tracking { vlan { <vlan> | all } | bridge-domain { <bdid> | all } }
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP Snooping
snooping	Clear IGMP Snooping
explicit-tracking	Clear Explicit Host tracking information
vlan	Clear explicit tracking information for VLAN
<i>vlan</i>	Specify VLAN
bridge-domain	Clear explicit tracking information for BD
<i>bdid</i>	Specify BD
all	Clear for all vlans/BD

Command Mode

- /exec

clear ip igmp snooping groups

```
clear ip igmp snooping groups { <all> | { <group-prefix> | <group> } [ <source> ] } [ interface <if-name> ]
{ vlan { <vlan> | all } | bridge-domain { <bdid> | all } }
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP Snooping
snooping	Clear IGMP Snooping
groups	Clear snooped groups
all	Clear all groups
<i>group-prefix</i>	Group prefix to clear
<i>group</i>	Group address to clear
<i>source</i>	(Optional) Source address to clear
interface	(Optional) Specify interface to clear group state
<i>if-name</i>	(Optional) Interface name to clear
vlan	Clear information for VLAN
<i>vlan</i>	Specify the VLAN number
bridge-domain	Clear information for BD
<i>bdid</i>	Specify the BD number
all	Clear for all VLAN/BDs

Command Mode

- /exec

clear ip igmp snooping proxy querier ports vlan

clear ip igmp snooping proxy querier ports { vlan <vlan> | bridge-domain <bdid> } <if-name> [purge]

Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP Snooping
snooping	Clear IGMP Snooping
proxy	Clear IGMP snooping proxy
querier	Clear IGMP snooping proxy querier
ports	Clear IGMP snooping proxy querier ports
vlan	Clear for a specific vlan
<i>vlan</i>	Specify the VLAN number
bridge-domain	Clear for a specific BD
<i>bdid</i>	Specify the BD number
<i>if-name</i>	Interface name to clear
purge	(Optional) Remove port from priority list

Command Mode

- /exec

clear ip igmp snooping report statistics

clear ip igmp snooping { report-policy | access-group } statistics [vlan <vlan>]

Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP Snooping
snooping	Clear IGMP Snooping
report-policy	IGMP Report Policy
access-group	IGMP access-group
statistics	Policy statistics
vlan	(Optional) Clear VLAN IGMP snooping policy statistics information
<i>vlan</i>	(Optional) Specify VLAN

Command Mode

- /exec

clear ip igmp snooping statistics

clear ip igmp snooping statistics { vlan <vlan> | bridge-domain <bdid> | all }

Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP Snooping
snooping	Clear IGMP Snooping
statistics	Packet/internal counter statistics
vlan	Clear VLAN statistics
<i>vlan</i>	Specify VLAN
bridge-domain	Clear BD statistics
<i>bdid</i>	Specify BD
all	All VLAN/BDs

Command Mode

- /exec

clear ip igmp snooping vpc peer-link-exclude

```
clear ip igmp snooping vpc peer-link-exclude { vlan <vlan> | bridge-domain <bdid> | all } [ group <group-addr> ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
igmp	Clear IGMP Snooping
snooping	Clear IGMP Snooping
vpc	Clear vPC information
peer-link-exclude	Clear vPC peer-link Exclude state
vlan	Clear vpc peer-link Exclude state for VLAN
<i>vlan</i>	Specify VLAN
bridge-domain	Clear vpc peer-link Exclude state for BD
<i>bdid</i>	Specify BD
all	All VLAN/BDs
group	(Optional) Clear vpc peer-link Exclude state for VLAN/BD
<i>group-addr</i>	(Optional) Specify Group address

Command Mode

- /exec

clear ip interface statistics

clear ip interface statistics [<interface>]

Syntax Description

clear	Reset functions
ip	Clear IP commands
interface	Clear IP related interface information
statistics	Clear IP interface statistics
<i>interface</i>	(Optional) Clear IP statistics for interface

Command Mode

- /exec

clear ip internal event-history

clear ip internal event-history { errors | log | ipc | snmp | ha | ppf | cli | vrf-errors | arp-miss | static-rt | pkt-buffer | dampening | all } [dump-to-file]

Syntax Description

clear	Reset functions
ip	CLEAR_IP_HELP
internal	Commands for internal use
event-history	Clear various event logs of IP
errors	Clear error logs of IP
log	Clear syslog message of IP
ipc	Clear ipc debug message of IP
dampening	Clear dampening debug message of IP
snmp	Clear snmp debug message of IP
ha	Clear ha debug message of IP
ppf	Clear ppf debug message of IP
cli	Clear cli interaction debug messages for IP
vrf-errors	Clear vrf related errors
arp-miss	Clear arp miss debug message of IP
static-rt	Clear ip static routing event buffer
pkt-buffer	Clear ip packet buffer event history
all	All event history buffers
dump-to-file	(Optional) Dump the IP event history logs into the file

Command Mode

- /exec

clear ip lisp data-cache

```
clear ip lisp data-cache [ <eid> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
lisp	LISP clear commands
data-cache	Clear EID-to-RLOC data cache mapping in this ITR
<i>eid</i>	(Optional) Clear 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

clear ip lisp map-cache

```
{ { clear ip lisp map-cache [ <eid-prefix> ] [ vrf { <vrf-name> | <vrf-known-name> } ] } } | { clear ipv6 lisp map-cache [ <eid-prefix6> ] [ vrf { <vrf-name> | <vrf-known-name> } ] } }
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
ipv6	Clear IPv6 commands
lisp	LISP clear commands
map-cache	Clear an EID-to-RLOC cache mapping in this ITR
vrf	(Optional) Clear entry for particular vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>eid-prefix</i>	(Optional) Clear entry associated with IP EID-prefix

Command Mode

- /exec

clear ip lisp statistics

clear ip lisp statistics [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

clear	Reset functions
ip	Clear IP commands
lisp	LISP clear commands
statistics	Clear global LISP statistics
vrf	(Optional) Clear statistics for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

clear ip mbgp dampening

```
{ { clear ip mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] dampening
[ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] } | { clear ip bgp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] dampening [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] } | { clear ip bgp [
vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] ipv4 { unicast | multicast }
dampening [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] } | { clear ip bgp [ vrf { <vrf-name> | <vrf-known-name>
| ALL_VRFS_012345678901234 } ] all dampening } | { clear bgp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] { ipv4 { unicast | multicast } | vpnv4 unicast } dampening [ <ip-prefix>
| <ip-addr> [ <ip-mask> ] ] } | { clear bgp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] { ipv6 { unicast | multicast } | vpnv6 unicast } dampening [ <ip6-prefix>
] ] } | { clear bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] all dampening
} } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
bgp	Clear BGP sessions
mbgp	Clear MBGP sessions
dampening	Clear route flap dampening information
<i>ip-prefix</i>	(Optional) Clear route flap dampening for prefix
<i>ip-addr</i>	(Optional) Clear route flap dampening for one network
<i>ip-mask</i>	(Optional) Network mask
ipv4	Clear IPv4 address-family
ipv6	Clear IPv6 address-family
vpnv4	Clear VPNv4 address-family
vpnv6	Clear VPNv6 address-family
unicast	Clear unicast address-family
multicast	Clear multicast address-family
all	Clear all address-families

Command Mode

clear ip mbgp dampening

- /exec

clear ip mbgp flap-statistics

```
{ { clear ip mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] flap-statistics
[ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] } | { clear ip bgp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] flap-statistics [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] } | { clear ip bgp
[ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] ipv4 { unicast | multicast }
flap-statistics [ <ip-prefix> | <ip-addr> [ <ip-mask> ] ] } | { clear ip bgp [ vrf { <vrf-name> | <vrf-known-name>
| ALL_VRFS_012345678901234 } ] all flap-statistics } | { clear bgp [ vrf { <vrf-name> | <vrf-known-name>
| ALL_VRFS_012345678901234 } ] { ipv4 { unicast | multicast } | vpnv4 unicast } flap-statistics [ <ip-prefix>
| <ip-addr> [ <ip-mask> ] | regexp <regexp-str> ] } | { clear bgp [ vrf { <vrf-name> | <vrf-known-name> |
ALL_VRFS_012345678901234 } ] { ipv6 { unicast | multicast } | vpnv6 unicast } flap-statistics [ <ipv6-prefix>
| regexp <regexp-str> ] } | { clear bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234
} ] all flap-statistics } } [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

clear	Reset functions
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
ip	Clear IP commands
bgp	Clear BGP sessions
mbgp	Clear MBGP sessions
flap-statistics	Clear flap statistics
<i>ip-prefix</i>	(Optional) Clear flap statistics for one prefix
<i>ip-addr</i>	(Optional) Clear flap statistics for one network
<i>ip-mask</i>	(Optional) Network mask
ipv4	Clear IPv4 address-family
ipv6	Clear IPv6 address-family
vpnv4	Clear VPNv4 address-family
vpnv6	Clear VPNv6 address-family
unicast	Clear unicast address-family
multicast	Clear multicast address-family
all	Clear all address-families
regexp	(Optional) Clear flap statistics for routes matching the regular expression

<i>regexp-str</i>	(Optional) Regular expression to match the AS paths
-------------------	---

Command Mode

- /exec

clear ip mbgp peer-template

```
{ { clear ip mbgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ] { <neighbor-id>
| * | <asn> | <prefix-id> peer-template <peer-template-name> } [ soft [ in | out ] | dampened-paths | flap-statistics
| no-notify ] } } | { clear ip bgp [ vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
{ <neighbor-id> | * | <asn> | <prefix-id> | peer-template <peer-template-name> } [ soft [ in | out ] |
dampened-paths | flap-statistics | no-notify ] { { ipv4 { unicast | multicast } } | { vpnv4 | vpnv6 } unicast | all } {
soft [ in | out ] | dampened-paths | flap-statistics | no-notify } ] } | { clear bgp [ vrf { <vrf-name> |
<vrf-known-name> | ALL_VRFS_012345678901234 } ] { ipv4 { unicast | multicast | mvpn | labeled-unicast
} | ipv6 { unicast | multicast | mvpn | labeled-unicast } | { vpnv4 | vpnv6 } unicast | l2vpn vpls | l2vpn evpn |
link-state | all } { <neighbor-id> | <ipv6-neighbor-id> | * | <asn> | peer-template <peer-template-name> |
<prefix-id> | <ipv6-prefix-id> } [ soft [ in | out ] | dampened-paths | flap-statistics | no-notify ] } } [ vrf {
<vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
vrf	(Optional) Virtual Router Context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
bgp	Clear BGP sessions
mbgp	Clear MBGP sessions
<i>neighbor-id</i>	IP address of the neighbor to clear
<i>prefix-id</i>	Clear all neighbors matching the prefix
*	Clear all neighbors (Should be a * character)
<i>asn</i>	Clear all neighbors in an AS
peer-template	Clear all neighbors in a peer-template
<i>peer-template-name</i>	Peer-template name
soft	(Optional) Soft reconfiguration
in	(Optional) Clear soft reconfiguration inbound
out	(Optional) Clear soft reconfiguration outbound
ipv4	(Optional) Clear IPv4 address-family
ipv6	Clear IPv6 address-family
vpnv4	(Optional) Clear VPNv4 address-family

vpn6	(Optional) Clear VPNv6 address-family
unicast	(Optional) Clear unicast address-family
multicast	(Optional) Clear multicast address-family
link-state	Clear 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
labeled-unicast	Display BGP information for labeled-unicast address family
all	(Optional) Clear all address-families
dampened-paths	(Optional) Clear dampened paths for neighbor
flap-statistics	(Optional) Clear flap statistics for neighbor
no-notify	(Optional) Clear without sending notification

Command Mode

- /exec

clear ip msdp event-history

clear ip msdp event-history [<msdp-event-hist-buf-name>]

Syntax Description

clear	Reset functions
ip	Clear IP commands
msdp	MSDP global configuration commands
event-history	Clear the event-history buffer instances
<i>msdp-event-hist-buf-name</i>	(Optional) Specify the particular instance of the event-history buffer

Command Mode

- /exec

clear ip msdp peer

```
clear ip msdp peer <peer-address> [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
msdp	MSDP clear commands
peer	Clear MSDP peer connection
<i>peer-address</i>	IP address of MSDP peer
vrf	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

clear ip msdp policy statistics sa-policy in

```
clear ip msdp policy statistics sa-policy <peer-address> { in | out } [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
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) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

clear ip msdp sa

```
clear ip msdp { sa-cache | route } { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name> |
<vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
msdp	MSDP clear commands
sa-cache	Clear contents of SA cache
route	Clear contents of SA cache
all	Clear all routes
<i>group-prefix</i>	Clear all routes within the Group prefix
<i>group</i>	Clear all routes matching the Group
<i>source</i>	(Optional) Clear a (S,G) route
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

clear ip msdp statistics

```
clear ip msdp statistics [ <peer-address> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
msdp	MSDP clear commands
statistics	Clear statistics for peers
<i>peer-address</i>	(Optional) IP address of MSDP peer
vrf	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

clear ip nat translation

```
clear ip nat translation { all | inside <insideGlobalIP> <insideLocalIP> [ outside <outsideLocalIP>
<outsideGlobalIP> ] | outside <outsideLocalIP> <outsideGlobalIP> | tcp { inside <insideGlobalIP>
<insideGlobal-port> <insideLocalIP> <insideLocal-port> outside <outsideLocalIP> <outsideLocal-port>
<outsideGlobalIP> <outsideGlobal-port> } | udp { inside <insideGlobalIP> <insideGlobal-port>
<insideLocalIP> <insideLocal-port> outside <outsideLocalIP> <outsideLocal-port> <outsideGlobalIP>
<outsideGlobal-port> } }
```

Syntax Description

clear	Reset functions
ip	Clear ip counters
nat	Clear NAT
translation	Clear dynamic translation
all	Delete all dynamic translations
inside	Inside addresses
<i>insideGlobalIP</i>	Inside global IP address
<i>insideLocalIP</i>	Inside local IP address
outside	(Optional) Outside addresses
<i>outsideLocalIP</i>	(Optional) Outside local IP address
<i>outsideGlobalIP</i>	(Optional) Outside global IP address
tcp	Transmission Control Protocol
udp	User Datagram Protocol
<i>insideGlobal-port</i>	Inside global TCP/UDP port address
<i>insideLocal-port</i>	Inside local TCP/UDP port address
<i>outsideLocal-port</i>	Outside local TCP/UDP port address
<i>outsideGlobal-port</i>	Outside global TCP/UDPport address

Command Mode

- /exec

clear ip ospf database

clear ip ospf [<tag>] database

Syntax Description

clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
<i>tag</i>	(Optional) Process tag
database	Clear the LSDB and all neighbors

Command Mode

- /exec

clear ip ospf event-history

clear ip ospf [<tag>] event-history [adjacency | event | ha | flooding | lsa | spf | redistribution | cli | ldp | te | rib | hello | spf-trigger | objstore | all]

Syntax Description

clear	Reset functions
ip	IP events
ospf	Debug OSPF events
<i>tag</i>	(Optional) Process tag
event-history	Clear the event history buffers
adjacency	(Optional) Adjacency formation logs
event	(Optional) Internal event logs
ha	(Optional) HA and GR logs
flooding	(Optional) LSA flooding logs
lsa	(Optional) LSA generation and database logs
spf	(Optional) SPF calculation logs
redistribution	(Optional) Redistribution logs
cli	(Optional) Cli logs
ldp	(Optional) LDP related logs
te	(Optional) MPLS TE related logs
rib	(Optional) RIB related logs
hello	(Optional) HELLO related logs
spf-trigger	(Optional) SPF TRIGGER related logs
objstore	(Optional) DME OBJSTORE related logs
all	(Optional) All event history buffers

Command Mode

- /exec

clear ip ospf event-history detail

clear ip ospf [<tag>] event-history detail

Syntax Description

clear	Reset functions
ip	IP events
ospf	Debug OSPF events
<i>tag</i>	(Optional) Process tag
event-history	Clear the event history buffer
detail	Detailed event history buffer

Command Mode

- /exec

clear ip ospf interface

```
clear ip ospf [ <tag> ] interface { * | <interface> }
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
<i>tag</i>	(Optional) Process tag
interface	Clear one or more interfaces
*	Clear all interfaces
<i>interface</i>	Interface to clear

Command Mode

- /exec

clear ip ospf internal interface-cache

```
clear ip ospf [ <tag> ] internal interface-cache [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ip	IP events
ospf	Debug OSPF events
<i>tag</i>	(Optional) Process tag
internal	Commands for internal use
interface-cache	Interface-cache
<i>interface</i>	(Optional) Interface to clear the interface cache on
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

clear ip ospf neighbor

```
clear ip ospf [ <tag> ] neighbor { { * | <neighborid> } [ vrf { <vrf-name> | <vrf-known-name> | all } ] } |
{ <interface> } }
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
<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
neighbor	Clear one or more neighbors
*	Clear all neighbors
<i>neighborid</i>	Source IP address, or router ID of the neighbor
<i>interface</i>	Interface to clear all neighbors on

Command Mode

- /exec

clear ip ospf policy statistics

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

Syntax Description

clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
<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	Clear 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
lisp	LISP EID-prefixes
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

clear ip ospf redistribution

```
clear ip ospf [ <tag> ] redistribution [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
<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
redistribution	Clear OSPF route redistribution

Command Mode

- /exec

clear ip ospf statistics

```
clear ip ospf [ <tag> ] statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
<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	Clear event counters

Command Mode

- /exec

clear ip ospf traffic

```
clear ip ospf [ <tag> ] traffic [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
ospf	Clear OSPF tables
<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
traffic	Clear packet counters
<i>interface</i>	(Optional) Interface to clear all traffic on

Command Mode

- /exec

clear ip pim event-history

clear ip pim event-history [<pim-event-hist-buf-name>]

Syntax Description

clear	Reset functions
ip	Clear IP commands
pim	PIM clear commands
event-history	Clear event history buffers
<i>pim-event-hist-buf-name</i>	(Optional) Event history buffer instance

Command Mode

- /exec

clear ip pim interface statistics

clear ip pim interface statistics [<interface> | vrf { <vrf-name> | <vrf-known-name> | all }]

Syntax Description

clear	Reset functions
ip	Clear IP commands
pim	Clear PIM information
interface	Interface related information
statistics	Packet interface counter statistics
<i>interface</i>	(Optional) Interface name to clear
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

clear ip pim policy statistics

```
clear 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 } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
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 BSR messages
rp-candidate-policy	Statistics for RP candidate messages
auto-rp	Statistics for auto-rp messages
rp-candidate-policy	Statistics for RP candidate messages
mapping-agent-policy	Statistics for 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

Command Mode

- /exec

clear ip pim policy statistics jp

clear ip pim policy statistics { jp-policy | neighbor-policy } <interface>

Syntax Description

clear	Reset functions
ip	Clear IP commands
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

Command Mode

- /exec

clear ip pim route

```
clear ip pim route { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name> | <vrf-known-name>
| all } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
pim	PIM clear commands
route	Route information
all	Clear all routes
<i>group-prefix</i>	Clear all routes within the Group prefix
<i>group</i>	Clear all routes matching the Group
<i>source</i>	(Optional) Clear a (S,G) route
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

clear ip pim statistics

```
clear ip pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
pim	Clear PIM information
statistics	Packet global 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

Command Mode

- /exec

clear ip rip policy statistics redistribute bgp

```
{ { clear ip rip policy statistics redistribute bgp <as> } | { clear ip rip policy statistics redistribute eigrp <tag>
} | { clear ip rip policy statistics redistribute isis <tag> } | { clear ip rip policy statistics redistribute rip <tag>
} | { clear ip rip policy statistics redistribute ospf <tag> } } | { clear ip rip policy statistics redistribute direct }
| { clear ip rip policy statistics redistribute static } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
rip	Routing Information Protocol (RIP)
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)
ospf	Open Shortest Path First (OSPFv2)
<i>tag</i>	Process tag
static	Static routes
direct	Directly connected 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

Command Mode

- /exec

clear ip rip statistics

```
clear { ipv6 | ip } rip statistics [ * | <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
ip	Clear IP commands
rip	Routing Information Protocol (RIP)
statistics	Clear RIP statistics
*	(Optional) RIP statistics for all interfaces
<i>interface</i>	(Optional) RIP 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

Command Mode

- /exec

clear ip rsvp authentication

clear ip rsvp authentication [<nbr-addr>]

Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
authentication	Clear security associations
<i>nbr-addr</i>	(Optional) RSVP Neighbor address

Command Mode

- /exec

clear ip rsvp counters

clear ip rsvp counters [teardown | authentication | all]

Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
counters	RSVP counters
teardown	(Optional) Clear signaling tear information
authentication	(Optional) Display RSVP Security Association information
all	(Optional) Clear all information

Command Mode

- /exec

clear ip rsvp hello instance counters

clear ip rsvp hello instance counters

Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
hello	RSVP Hello configuration commands
instance	Clear Hello instance information
counters	Clear RSVP statistics

Command Mode

- /exec

clear ip rsvp internal counters

clear ip rsvp internal counters [error | client | mts | pss | refresh | reliable | batch-history]

Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
internal	Clear RSVP internal information
counters	Clear RSVP statistics
error	(Optional) Clear signaling error information
client	(Optional) Clear client information
mts	(Optional) Clear message service information
pss	(Optional) Clear persistent store information
refresh	(Optional) Clear refresh information
reliable	(Optional) Clear reliable message information
batch-history	(Optional) Clear batching history

Command Mode

- /exec

clear ip rsvp reservation

```
clear ip rsvp reservation { [ destination <dest> ] [ source <src> ] [ ip-protocol <proto> ] [ dst-port <dport> ]
[ src-port <sport> ] | <all> }
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
reservation	Clear RSVP reservation state
destination	(Optional) Clear based on destination address
<i>dest</i>	(Optional) Destination address
source	(Optional) Clear based on a source address
<i>src</i>	(Optional) Source address
ip-protocol	(Optional) Clear based on IP protocol
<i>proto</i>	(Optional) IP protocol value
dst-port	(Optional) Clear based on destination port
<i>dport</i>	(Optional) Destination Port value
src-port	(Optional) Clear based on a source port
<i>sport</i>	(Optional) Source port value
all	Clear all state

Command Mode

- /exec

clear ip rsvp sender

```
clear ip rsvp sender { [ destination <dest> ] [ source <src> ] [ ip-protocol <proto> ] [ dst-port <dport> ] [
src-port <sport> ] | <all> }
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
sender	Clear RSVP sender state
destination	(Optional) Clear based on destination address
<i>dest</i>	(Optional) Destination address
source	(Optional) Clear based on a source address
<i>src</i>	(Optional) Source address
ip-protocol	(Optional) Clear based on IP protocol
<i>proto</i>	(Optional) IP protocol value
dst-port	(Optional) Clear based on destination port
<i>dport</i>	(Optional) Destination Port value
src-port	(Optional) Clear based on a source port
<i>sport</i>	(Optional) Source port value
all	Clear all state

Command Mode

- /exec

clear ip rsvp signalling

clear ip rsvp signalling [rate-limit | refresh-reduction]

Syntax Description

clear	Reset functions
ip	Clear IP commands
rsvp	Clear RSVP information
signalling	Configure RSVP Signalling information
rate-limit	(Optional) Clear rate-limit counters
refresh-reduction	(Optional) Clear refresh-reduction counters

Command Mode

- /exec

clear ip stats

clear ip stats

Syntax Description

clear	Reset functions
ip	Clear IP commands
stats	Clear IP internal stats

Command Mode

- /exec

clear ip traffic

```
clear ip traffic [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
traffic	Clear IP global statistics
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

clear ip vip

```
clear ip vip { uuid <uuid> | <vip-addr> vrf { <vrf-name> | <vrf-known-name> } }
```

Syntax Description

clear	Reset functions
ip	Clear IP commands
vip	Clear virtual ip address
uuid	UUID of client
<i>uuid</i>	UUID of client whose vips needs to be cleared
<i>vip-addr</i>	VIP in format A.B.C.D
vrf	Display per-VRF information
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name

Command Mode

- /exec

clear ipv6 adjacency no-ufdm

```
clear ipv6 adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <ipv6-addr> | * } no-ufdm
```

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
adjacency	Clear Adjacency
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
*	Delete all adjacency in this context
no-ufdm	Create inconsistency in adjacency

Command Mode

- /exec

clear ipv6 adjacency statistics

clear ipv6 adjacency statistics

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
adjacency	Clear Adjacency
statistics	Clear Adjacency Statistics

Command Mode

- /exec

clear ipv6 amt tunnel

```
clear ipv6 amt tunnel [ <address6> <port> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

clear	AMT clear commands
amt	AMT show commands
ipv6	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>port</i>	(Optional) UDP port number of gateway

Command Mode

- /exec

clear ipv6 cache

```
clear ipv6 cache { { interface [ <intf> ] } }
```

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
cache	Clear ipv6 cache
interface	Clear ipv6 interface information
<i>intf</i>	(Optional) Interface name to clear

Command Mode

- /exec

clear ipv6 dhcp-ldra statistics

clear ipv6 dhcp-ldra statistics

Syntax Description

clear	Reset functions
ipv6	IPv6
dhcp-ldra	Clear State of DHCPv6 LDRA stats
statistics	DHCPv6 LDRA statistics

Command Mode

- /exec

clear ipv6 dhcp relay statistics

```
clear 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> ] ] ] ]
```

Syntax Description

clear	Reset functions
ipv6	IPv6
dhcp	Clear State of DHCPv6 features
relay	Clear State of DHCPv6 relay stats
statistics	DHCPv6 Relay statistics
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

Command Mode

- /exec

clear ipv6 eigrp route-map statistics redistribute

```
clear ipv6 eigrp [ <eigrp-ptag> ] route-map statistics redistribute { bgp <as> | { eigrp | isis | ospfv3 | rip }
<tag> | static | direct | amt | lisp } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
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
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
isis	IS-IS Routing for IPv4
ospfv3	Open Shortest Path First (OSPF) V3
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

Command Mode

- /exec

clear ipv6 icmp

clear ipv6 { icmp | nd } { interface statistics [<interface>] | global statistics }

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
icmp	Clear ICMPv6 information
nd	Clear Neighbor Discovery interface information
interface	Clear ICMPv6 related interface information
statistics	Clear ICMPv6 interface statistics
global	Clear ICMPv6 global statistics
<i>interface</i>	(Optional) Interface to clear statistics for

Command Mode

- /exec

clear ipv6 icmp internal event-history

```
clear ipv6 icmp internal event-history { errors | icmpv6-internal | nd | mld { debugs | events } | ha | sync-event
| ipv6-sync-event | vrf | cli | all } [ dump-to-file ]
```

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
icmp	Clear ICMPv6 information
internal	Commands for internal use
event-history	various event logs of ICMPV
errors	error logs ICMPV6
icmpv6-internal	internal debug events of ICMPV6
nd	ICMPV6 ND debugs
mld	ICMPV6 MLD Information
events	ICMPV6 MLD non-periodic events
debugs	ICMPV6 MLD debug messages
ha	ICMPV6 debugs for HA events
sync-event	ICMPV6 debugs for CFS and MCECM related events
ipv6-sync-event	ICMPV6 debugs for CFS and MCECM related events for L3
vrf	ICMPV6 VRF related events
cli	ICMPV6 CLI related events
all	All event history buffers
dump-to-file	(Optional) Dump the ICMPV6 event history logs into the file

Command Mode

- /exec

clear ipv6 icmp vpc-statistics

clear ipv6 icmp vpc-statistics

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
icmp	Clear ICMPv6 information
vpc-statistics	Clear ICMPv6 ND vPC statistics

Command Mode

- /exec

clear ipv6 interface statistics

clear ipv6 interface statistics [<interface>]

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
interface	Clear IPv6 related interface information
statistics	Clear IPv6 interface statistics
<i>interface</i>	(Optional) Interface to clear statistics for

Command Mode

- /exec

clear ipv6 internal event-history

clear ipv6 internal event-history { errors | log | ipc | snmp | ha | sdb | bfd | all } [dump-to-file]

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
internal	Commands for internal use
event-history	Clear various event logs of IPV6
errors	Clear error logs of IPV6
log	Clear syslog message of IPV6
ipc	Clear ipc debug message of IPV6
snmp	Clear snmp debug message of IPV6
ha	Clear ha debug message of IPV6
sdb	Clear sdb debug message buffer size of IPV6
bfd	clear bfd debug messages for IPV6
all	All event history buffers
dump-to-file	(Optional) Dump the IPv6 event history logs into the file

Command Mode

- /exec

clear ipv6 lisp data-cache

```
clear ipv6 lisp data-cache [ <eid6> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
lisp	LISP clear commands
data-cache	Clear EID-to-RLOC data cache mapping in this ITR
<i>eid6</i>	(Optional) Clear mapping for IPv6 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

clear ipv6 lisp statistics

```
clear ipv6 lisp statistics [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
lisp	LISP clear commands
statistics	Clear global LISP statistics
vrf	(Optional) Clear statistics for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

clear ipv6 mld groups

```
clear ipv6 [ icmp ] mld { groups | route } { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name>
| <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
icmp	(Optional) Clear ICMPv6 information
mld	Clear Multicast Listener Discovery information
groups	Route information
route	Route information
all	Clear all routes
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

clear ipv6 mtu

```
clear ipv6 mtu [ <ipv6-addr> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
mtu	Display IPV6 Path MTU Cache
vrf	(Optional) Clear information for particular VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

clear ipv6 neighbor

```
clear ipv6 neighbor [ [ <nbr-addr> [ <intf> ] ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] | vrf { <vrf-name>
| <vrf-known-name> | all } | <interface> ] [ force-delete ]
```

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
neighbor	Clear ICMPv6 neighbor cache
<i>intf</i>	(Optional) Clear cache entries for given interface
<i>interface</i>	(Optional) Clear cache entries for given interface
force-delete	(Optional) Clear the cache entries without refresh
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

clear ipv6 neighbor binding

clear ipv6 neighbor binding [mac <macaddr> | address { <ipv6-addr> | all } | policy <policy-name> |

Syntax Description

clear	Reset functions
ipv6	IPv6
<i>macaddr</i>	(Optional) 48-bit hardware address
<i>policy-name</i>	(Optional) Snooping Policy name to be cleared

Command Mode

- /exec

clear ipv6 netstack mroute

```
clear ipv6 netstack mroute { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name> |
<vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
netstack	Netstack's local cache
mroute	Multicast route information
all	Clear all routes
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

clear ipv6 pim event-history

clear ipv6 pim event-history [<pim6-event-hist-buf-name>]

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
pim	Clear PIM event history buffers
event-history	Clear event-history buffers
<i>pim6-event-hist-buf-name</i>	(Optional) Event-history buffer instance

Command Mode

- /exec

clear ipv6 pim interface statistics

clear ipv6 pim interface statistics [<interface>]

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
pim	Clear PIM6 information
interface	Interface related information
statistics	Packet interface counter statistics
<i>interface</i>	(Optional) Interface name to clear

Command Mode

- /exec

clear ipv6 pim policy statistics jp

clear ipv6 pim policy statistics { jp-policy | neighbor-policy } <interface>

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
pim	Clear PIM information
policy	Policy related information
statistics	Policy statistics
jp-policy	Statistics for jp-policy
neighbor-policy	Statistics for neighbor-policy
<i>interface</i>	Interface

Command Mode

- /exec

clear ipv6 pim route

```
clear ipv6 pim route { <all> | <group-prefix> | <group> [ <source> ] } [ vrf { <vrf-name> | <vrf-known-name>
| all } ]
```

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
pim	PIM6 clear commands
route	Route information
all	Clear all routes
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

clear ipv6 pim statistics

```
clear ipv6 pim statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
pim	Clear PIM6 information
statistics	Packet global 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

Command Mode

- /exec

clear ipv6 raguard statistics

clear ipv6 raguard statistics

Syntax Description

clear	Reset functions
ipv6	IPv6
raguard	IPV6 raguard
statistics	RA packet drop count

Command Mode

- /exec

clear ipv6 rip policy statistics redistribute bgp

```
{ { clear ipv6 rip policy statistics redistribute bgp <as> } | { clear ipv6 rip policy statistics redistribute eigrp <tag> } | { clear ipv6 rip policy statistics redistribute isis <tag> } | { clear ipv6 rip policy statistics redistribute rip <tag> } | { clear ipv6 rip policy statistics redistribute ospfv3 <tag> } | { clear ipv6 rip policy statistics redistribute direct } | { clear ipv6 rip policy statistics redistribute static } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
rip	Routing Information Protocol (RIP)
policy	Policy related information
statistics	Policy statistics
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
isis	Intermediate-to-intermediate (ISIS)
ospfv3	Open Shortest Path First (OSPFv3)
tag	Process tag
static	Static routes
direct	Directly connected routes
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

Command Mode

- /exec

clear ipv6 snooping counters

clear ipv6 snooping counters [interface <intf>]

Syntax Description

clear	Reset functions
ipv6	IPv6
<i>intf</i>	(Optional) interface

Command Mode

- /exec

clear ipv6 snooping events

clear ipv6 snooping events

Syntax Description

clear	Reset functions
ipv6	IPv6

Command Mode

- /exec

clear ipv6 snooping messages

clear ipv6 snooping messages

Syntax Description

clear	Reset functions
ipv6	IPv6

Command Mode

- /exec

clear ipv6 statistics

clear ipv6 statistics

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
statistics	Clear IPv6 global statistics

Command Mode

- /exec

clear ipv6 traffic

```
clear ipv6 traffic [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

clear	Reset functions
ipv6	Clear IPv6 commands
traffic	Clear IPv6 traffic statistics
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

clear isis adjacency

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] adjacency { * | { <interface> | system-id
<sid> } + } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<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	Clear IS-IS adjacency state
*	IS-IS adjacencies on all interfaces
<i>interface</i>	IS-IS interface
system-id	Hostname or System ID
<i>sid</i>	Hostname or System ID (in the form of XXXX.XXXX.XXXX)

Command Mode

- /exec

clear isis dpi

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] dpi [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<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
dpi	Clear IS-IS DPI logs

Command Mode

- /exec

clear isis event-history

clear isis [<isis-tag>] event-history [<isis-event-hist-buf-name>]

Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<i>isis-tag</i>	(Optional) Routing process tag
event-history	Clear event history buffers
<i>isis-event-hist-buf-name</i>	(Optional) Clear the specific event history buffer

Command Mode

- /exec

clear isis internal packet queue counters

clear isis [<isis-tag>] internal packet queue counters

Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<i>isis-tag</i>	(Optional) Routing process tag
internal	Commands for internal use
packet	Packet counters
queue	Packet queue counters
counters	Clear packet queue max counters

Command Mode

- /exec

clear isis ipv6 route-map statistics

```
clear isis [<isis-tag>] [ vrf { <vrf-name> | <vrf-known-name> | all } ] ipv6 route-map statistics { { redistribute
{ bgp <as> | { <src-isis> | eigrp | ospfv3 | rip } <tag> } } | { redistribute { static | direct | amt } } | { distribute
<src-level> into <dst-level> } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<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	Clear IS-IS IPv6 information
statistics	Clear IS-IS route-map statistics
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
eigrp	Enhanced Interior Gateway Protocol
<i>as</i>	Autonomous system number
src-isis	IS-IS Routing for IPv6
ospfv3	Open Shortest Path First (OSPF) V3
rip	RIP for IPv6 (RIPNG)
<i>tag</i>	Process tag
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
route-map	Route-map to constrain redistribution
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
------------------	-----------------------------------

Command Mode

- /exec

clear isis redistribution

```
clear isis [ <isis-tag> ] redistribution [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<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
redistribution	Clear IS-IS redistributed information

Command Mode

- /exec

clear isis route-map statistics

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] [ ip ] route-map statistics { { redistribute
{ bgp <as> | { <src-isis> | eigrp | ospf | rip } <tag> } } | { redistribute { static | direct | amt } } | { distribute
<src-level> into <dst-level> } } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

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

Command Mode

- /exec

clear isis spf-log

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] spf-log [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<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

Command Mode

- /exec

clear isis statistics

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] statistics { * | <interface> } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<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	Clear IS-IS protocol statistics
*	All IS-IS protocol statistics
<i>interface</i>	IS-IS interface

Command Mode

- /exec

clear isis traffic

```
clear isis [ <isis-tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] traffic { * | <interface> } [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
isis	Clear IS-IS information
<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	Clear IS-IS traffic information
*	All IS-IS traffic information
<i>interface</i>	IS-IS interface

Command Mode

- /exec

clear itd statistics

clear itd statistics <service-name>

Syntax Description

clear	Reset functions
itd	ITD service
statistics	ITD statistics
<i>service-name</i>	ITD service-name

Command Mode

- /exec

clear keystore

clear { keystore | sksd } [<index> | <name>]

Syntax Description

clear	Reset functions
keystore	Clear all records in the keystore
sksd	Clear all records in the keystore/sksd-chip
<i>index</i>	(Optional) Clear secret at index <index>
<i>name</i>	(Optional) Clear secret with name <name>

Command Mode

- /exec

clear l2fwder statistics

clear l2fwder statistics

Syntax Description

clear	Reset functions
l2fwder	Clear L2FWDER related information
statistics	Clear the L2FWDER packet counters

Command Mode

- /exec

clear l3vm event-history

clear l3vm event-history { pss | errors | mts | reinit | cli | vrf | topology | all }

Syntax Description

clear	Reset functions
l3vm	Debug L3VM information
event-history	log debug events into event history buffer
pss	L3VM pss operation
errors	L3VM errors
mts	L3VM MTS messages
reinit	L3VM reinit events
cli	Log L3VM CLI related events
vrf	Log VRF related events
topology	Log Topology related events
all	All L3VM debugging

Command Mode

- /exec

clear lacp counters

```
clear lacp counters [ interface <if0> ]
```

Syntax Description

clear	Reset functions
lacp	LACP protocol
counters	LACP counters
interface	(Optional) Specify a port-channel
<i>if0</i>	(Optional)

Command Mode

- /exec

clear ldap-server statistics

```
clear ldap-server statistics <host0> [ __readonly__ { <server_state> [ <clock_time> { monitoring_statistics
<time_in_pstate> <ndead> <tt_in_dstate> } ] } { auth_statistics <auth_failed_transactions>
<auth_succ_transactions> <auth_req_sent> <auth_req_timedout> <auth_resp_no_match>
<auth_resp_not_processed> <auth_resp_error> } { acct_statistics <acct_failed_transactions>
<acct_succ_transactions> <acct_req_sent> <acct_req_timedout> <acct_resp_no_match>
<acct_resp_not_processed> <acct_resp_error> } } ]
```

Syntax Description

clear	Reset functions
ldap-server	Clear LDAP related parameters
statistics	Clear LDAP statistics
<i>host0</i>	DNS name or IP address
<i>__readonly__</i>	(Optional)
<i>server_state</i>	(Optional) Show state of server
<i>clock_time</i>	(Optional) Show clock time in terms of hours, minutes and seconds
monitoring_statistics	(Optional) Monitoring Statistics
<i>time_in_pstate</i>	(Optional) Time in previous state
<i>ndead</i>	(Optional) Number of times dead
<i>tt_in_dstate</i>	(Optional) Total time in dead state
auth_statistics	(Optional) Authentication Statistics
acct_statistics	(Optional) Accounting Statistics
<i>auth_failed_transactions</i>	(Optional) Authentication: Failed transactions
<i>auth_succ_transactions</i>	(Optional) Authentication: Successful transactions
<i>auth_req_sent</i>	(Optional) Authentication: Requests sent
<i>auth_req_timedout</i>	(Optional) Authentication: Requests timedout
<i>auth_resp_no_match</i>	(Optional) Authentication: Responses with no matching requests
<i>auth_resp_not_processed</i>	(Optional) Authentication: Responses not processed
<i>auth_resp_error</i>	(Optional) Authentication: Responses containing errors
<i>acct_failed_transactions</i>	(Optional) Accounting: Failed transactions
<i>acct_succ_transactions</i>	(Optional) Accounting: Successful transactions

<i>acct_req_sent</i>	(Optional) Accounting: Requests sent
<i>acct_req_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

clear license

```
clear license { <license-file> [ force ] | sprom | <s0> }
```

Syntax Description

clear	Reset functions
license	clear license
<i>license-file</i>	License file to be uninstalled
force	(Optional) Force license clear (don't prompt)
sprom	clear license contents in sprom
<i>s0</i>	License file to be uninstalled

Command Mode

- /exec

clear lim counters

clear lim counters [timeline]

Syntax Description

clear	Clear lim counters
lim	clear lim counters
counters	clear lim counters
timeline	(Optional) Clear all lim counters

Command Mode

- /exec

clear line

clear line <s0>

Syntax Description

clear	Reset functions
line	Kill a session on particular vty
s0	Enter the vty name

Command Mode

- /exec

clear lisp ddt referral-cache

```
clear lisp ddt referral-cache [ instance-id <iid> ] [ <eid-prefix> | <eid-prefix6> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

clear	Reset functions
lisp	LISP clear commands
ddt	LISP Delegated Database Tree
referral-cache	Clear the DDT referral cache
vrf	(Optional) Clear entry for particular vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
instance-id	(Optional) Clear entry for specific instance-ID
<i>iid</i>	(Optional) 24-bit instance-ID value
<i>eid-prefix</i>	(Optional) Clear entry associated with IP EID-prefix

Command Mode

- /exec

clear lisp dynamic-eid

```
clear lisp dynamic-eid { <dyn-eid-name> | <dyn-eid> } [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

clear	Reset functions
lisp	LISP clear commands
dynamic-eid	Clear dynamic-EID state
<i>dyn-eid</i>	IPv4 address of dynamic-EID entry
<i>dyn-eid-name</i>	Clear entries discovered for a dynamic-EID range
vrf	(Optional) Clear dynamic-EID entries for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

clear lisp internal event-history

clear lisp internal event-history <lisp-event-hist>

Syntax Description

clear	Reset functions
lisp	LISP clear commands
internal	Commands for internal use
event-history	Clear LISP event log
<i>lisp-event-hist</i>	Clear LISP event log

Command Mode

- /exec

clear lisp proxy-itr

```
clear lisp proxy-itr [ <addr> | <addr6> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

clear	Reset functions
lisp	LISP clear commands
proxy-itr	Clear discovered PITRs
<i>addr</i>	(Optional) IPv4 locator address of PITR
vrf	(Optional) Clear proxy-itr state for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

clear lisp site

```
clear lisp site <site-name> [ instance-id <iid> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

clear	Reset functions
lisp	LISP clear commands
site	Clear site registration data
<i>site-name</i>	Clear registration data for a single site
instance-id	(Optional) Clear registration for a single instance-id within a site
<i>iid</i>	(Optional) 24-bit instance-ID value
vrf	(Optional) Clear site entries for vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

clear lldp counters

clear lldp counters

Syntax Description

clear	Reset functions
lldp	Reset the lldp counters
counters	Reset the lldp traffic counters to zero

Command Mode

- /exec

clear lldp counters interface

clear lldp counters interface <if0>

Syntax Description

clear	Reset functions
lldp	Reset the lldp counters
counters	Reset the lldp traffic counters to zero
interface	Clear lldp traffic counters per interface
<i>if0</i>	Enter interface

Command Mode

- /exec

clear logging logfile

clear logging logfile

Syntax Description

clear	Reset functions
logging	Clear logging information
logfile	Clear logfile messages

Command Mode

- /exec

clear logging nvram

clear logging nvram

Syntax Description

clear	Reset functions
logging	Clear logging information
nvram	Clear nvram logs

Command Mode

- /exec

clear logging onboard

```
clear logging onboard [ { counter-stats | epld-log | internal { <dc3_options> } | module <module> [ {
counter-stats | internal { <dc3_options> } } ] ] ]
```

Syntax Description

clear	Reset functions
logging	Clear logging information
onboard	Clear OBFL information
counter-stats	(Optional) Clear OBFL counter statistics
epld-log	(Optional) Clear EPLD log
internal	(Optional) Clear Logging Onboard Internal
module	(Optional) Clear OBFL information for Module
<i>module</i>	(Optional) Enter module number
counter-stats	(Optional) Clear OBFL counter statistics
<i>dc3_options</i>	(Optional) dc3 options

Command Mode

- /exec

clear logging onboard

```
clear logging onboard [ { card-boot-history | card-first-power-on | environmental-history | error-stats |
exception-log | interrupt-stats | module <module> [ { environmental-history | error-stats | exception-log |
interrupt-stats | obfl-logs | stack-trace | card-boot-history | card-first-power-on } ] | obfl-logs | stack-trace } ]
```

Syntax Description

clear	Reset functions
logging	Clear logging information
onboard	Clear OBFL information
environmental-history	(Optional) Clear OBFL environmental history
error-stats	(Optional) Clear OBFL error statistics
exception-log	(Optional) Clear OBFL exception log
interrupt-stats	(Optional) Clear OBFL interrupt statistics
card-boot-history	(Optional) Clear Card Boot History
card-first-power-on	(Optional) Clear Card First Power On
module	(Optional) Clear OBFL information for Module
<i>module</i>	(Optional) Enter module number
obfl-logs	(Optional) Clear OBFL (boot-uptime/device-version/obfl-history).
stack-trace	(Optional) Clear OBFL stack trace

Command Mode

- /exec

clear logging session

clear logging session

Syntax Description

clear	Reset functions
logging	Clear logging information
session	Clear logging session

Command Mode

- /exec

clear mac address-table datapath

```
clear mac address-table datapath { dynamic [ vlan <id> ] | static [ vlan <id> ] | { statistics [ interface ] } |
isis_intf_stats }
```

Syntax Description

clear	Clear
mac	MAC configuration commands
address-table	MAC Address Table
datapath	Titanium Datapath Table
dynamic	clear dynamic entries from Titanium PD Forwarding Table
static	USE WITH CAUTION!! clear static entries from Titanium PD Forwarding Table
vlan	(Optional) VLAN
<i>id</i>	(Optional) VLAN ID
statistics	Clear datapath statistics
interface	(Optional) Clear datapath interface statistics
isis_intf_stats	Statistics of ISIS Frames Tx/Rx

Command Mode

- /exec

clear macsec mka statistics

clear macsec mka statistics [interface <ifname>]

Syntax Description

clear	Reset functions
macsec	Clear MACsec parameters
mka	Clear MKA parameters
statistics	Clear MKA statistics
interface	(Optional) Specify interface
<i>ifname</i>	(Optional) Interface list

Command Mode

- /exec

clear macsec secy statistics

clear macsec secy statistics [interface <ifname>]

Syntax Description

clear	Reset functions
macsec	Clear MACsec parameters
secy	Clear secy parameters
statistics	Clear secy statistics
interface	(Optional) Specify interface
<i>ifname</i>	(Optional) Interface list

Command Mode

- /exec

clear mmode database

clear mmode database

Syntax Description

clear	Reset functions
mmode	Clear mmode
database	Clear mmode database

Command Mode

- /exec

clear mpls forwarding statistics

clear mpls forwarding statistics [interface { <interface> | all }]

Syntax Description

clear	Reset functions
mpls	MPLS events
forwarding	Clear MPLS software forwarded
statistics	Traffic statistics
interface	(Optional) Interface specific information
<i>interface</i>	(Optional) Interface chosen to clear statistics
all	(Optional) All interfaces

Command Mode

- /exec

clear mpls ldp internal counters

clear mpls ldp internal counters { all | system | forwarding }

Syntax Description

clear	Reset functions
mpls	MPLS clear commands
ldp	Clear LDP state
internal	Clear LDP internal information
counters	Clear LDP statistics
all	Clear all LDP statistics
system	Clear LDP system statistics
forwarding	Clear LDP forwarding related statistics

Command Mode

- /exec

clear mpls ldp neighbor

```
clear mpls ldp neighbor [ vrf { <vrf-name> | <vrf-known-name> } ] { <address> | * }
```

Syntax Description

clear	Reset functions
mpls	MPLS clear commands
ldp	Clear LDP state
neighbor	Clear LDP neighbor sessions
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
<i>address</i>	IP address for LDP neighbor
*	Clear all neighbors

Command Mode

- /exec

clear mpls static trace

clear mpls static trace { error | warning | event }

Syntax Description

clear	Clear MPLS static trace buffer
mpls	MPLS configuration commands
static	MPLS static
trace	MPLS static trace
error	MPLS static error trace
warning	MPLS static warning trace
event	MPLS static event trace

Command Mode

- /exec

clear mpls strip labels

clear mpls strip labels { static | dynamic | all }

Syntax Description

clear	Reset functions
mpls	Configure MPLS settings
strip	Stripping of MPLS headers
labels	labels in database
all	all labels [default]
static	labels learned using cli
dynamic	dynamically learned

Command Mode

- /exec

clear mpls switching label statistics

clear mpls switching label statistics { all | <label-value> }

Syntax Description

clear	Reset functions
mpls	MPLS clear commands
switching	Clear MPLS label switching database information
label	Clear MPLS label information
statistics	Clear label statistics
all	Clear statistics for all labels
<i>label-value</i>	Label

Command Mode

- /exec

clear mpls traffic-eng auto-bw timers

clear mpls traffic-eng auto-bw timers

Syntax Description

auto-bw	Clear auto-bw collection
timers	Clear tunnel counters
clear	Reset functions
mpls	MPLS clear commands
traffic-eng	Clear MPLS Traffic-Engineering statistical information

Command Mode

- /exec

clear mpls traffic-eng internal counters

clear mpls traffic-eng internal counters { forwarding | mts | rsvp-client | threads }

Syntax Description

counters	Clear internal counters
forwarding	Clear forwarding programming stats
mts	Clear MTS send and receive stats
rsvp-client	Clear rsvp client call stats
threads	Clear thread event stats
clear	Reset functions
mpls	MPLS clear commands
traffic-eng	Clear MPLS Traffic-Engineering statistical information
internal	Clear internal information

Command Mode

- /exec

clear mpls traffic-eng link-management counters

clear mpls traffic-eng link-management counters

Syntax Description

link-management	Clear Link-Management statistical information
counters	Clear Link-Management counters
clear	Reset functions
mpls	MPLS clear commands
traffic-eng	Clear MPLS Traffic-Engineering statistical information

Command Mode

- /exec

clear mpls traffic-eng tunnel counters

clear mpls traffic-eng tunnel counters

Syntax Description

tunnel	Clear Tunnel statistics
counters	Clear tunnel counters
clear	Reset functions
mpls	MPLS clear commands
traffic-eng	Clear MPLS Traffic-Engineering statistical information

Command Mode

- /exec

clear nbm flow statistics

clear nbm flow statistics

Syntax Description

clear	Clear
nbm	Non blocking Multicast
flow	NBM flows
statistics	Clear nbm flow statistics

Command Mode

- /exec

clear ngoam

```
clear ngoam { loopback { { session { <ses-hdl> | all } } } | { statistics { summary | { session { <ses-hdl> | all } } } } } | database [ session <ses-hdl> ] } [ force ] }
```

Syntax Description

clear	Reset functions
ngoam	ngoam information
loopback	clear ngoam loopback
statistics	clear ngoam statistics
summary	clear ngoam statistics summary
database	clear ngoam database
session	clear ngoam information by session handle
<i>ses-hdl</i>	specify session handle
all	clear stats for all ping sessions
force	(Optional) Clear it, do not ask to confirm

Command Mode

- /exec

clear ngoam

```
clear ngoam { traceroute { { session { <handle> | all } } | { statistics { summary | { session { <handle> | all } } } } } [ force ] }
```

Syntax Description

clear	Reset functions
ngoam	ngoam information
traceroute	clear ngoam traceroute
statistics	clear ngoam statistics
summary	clear ngoam statistics summary
session	clear ngoam information by session handle
<i>handle</i>	specify session handle
all	clear stats for all traceroute sessions
force	(Optional) Clear it, do not ask to confirm

Command Mode

- /exec

clear ngoam

```
clear ngoam { probe { statistics { summary | { session { <handle> | all } } } } }
```

Syntax Description

clear	Reset functions
ngoam	ngoam information
probe	clear ngoam probe
statistics	clear ngoam statistics
summary	clear ngoam statistics summary
session	clear ngoam information by session handle
<i>handle</i>	specify session handle
all	clear stats for all probe sessions

Command Mode

- /exec

clear ngoam

```
clear ngoam { { interface statistics } }
```

Syntax Description

clear	Reset functions
ngoam	ngoam information
interface	probe packet interface
statistics	clear ngoam statistics

Command Mode

- /exec

clear ngoam pathtrace

```
clear ngoam pathtrace { { statistics { summary | { session { <handle> | all } } } } | { database { session { <handle> | all } } } } [ force ]
```

Syntax Description

clear	Reset functions
ngoam	ngoam information
pathtrace	clear ngoam pathtrace
database	clear ngoam pathtrace database
statistics	clear ngoam statistics
summary	clear ngoam statistics summary
session	clear ngoam information by session handle
<i>handle</i>	specify session handle
all	clear stats for all pathtrace sessions
force	(Optional) Clear it, do not ask to confirm

Command Mode

- /exec

clear ntp session

clear ntp session

Syntax Description

clear	Reset functions
ntp	Network Time Protocol
session	Clear the ntp configuration session

Command Mode

- /exec

clear ntp statistics

clear ntp statistics { all-peers | io | local | memory }

Syntax Description

clear	Reset functions
ntp	Network Time Protocol
statistics	Clear NTP Statistics
all-peers	Clear per-peer statistics counter of all peers
io	Clear input-output statistics
local	Clear counters maintained by the local NTP
memory	Clear statistics counters related to memory code

Command Mode

- /exec

clear nve peers history-log

clear nve peers history-log

Syntax Description

clear	Reset functions
nve	Configure NVE information
peers	NVE Peer
history-log	nve_clear_peers_history_log_cmd

Command Mode

- /exec

clear nve peers interface counters

clear nve peers <addr> interface <nve-if> counters

Syntax Description

clear	Reset functions
nve	Configure NVE information
peers	NVE Peer
<i>addr</i>	Remote Peer IP Address
counters	Counters
interface	Interface
<i>nve-if</i>	NVE interface

Command Mode

- /exec

clear nve peers vni interface counters

clear nve peers { <addr> | all } vni { <vni-id> | all } interface <nve-if> counters

Syntax Description

clear	Reset functions
nve	Configure NVE information
peers	NVE Peer
<i>addr</i>	Remote Peer IP Address
all	Clear 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

Command Mode

- /exec

clear nve vni counters

clear nve vni { <vni-id> | all } counters

Syntax Description

clear	Reset functions
nve	Configure NVE information
vni	Virtual Network Identifier
<i>vni-id</i>	Virtual Network Identifier
counters	Counters
all	Clear counters for all vnis

Command Mode

- /exec

clear nvram

clear nvram

Syntax Description

clear	Reset functions
nvram	purge NVRAM

Command Mode

- /exec

clear nxapi-server logs

clear nxapi-server logs

Syntax Description

clear	Reset functions
nxapi-server	Clear NX-API Server
logs	Clear NX-API Server logs

Command Mode

- /exec

clear onep error

clear onep error

Syntax Description

clear	Reset functions
onep	One Platform
error	Clear the ONE-P error buffer

Command Mode

- /exec

clear onep history

```
clear onep history { { archived } | { all } | { session { all | <onep-session-id> } } }
```

Syntax Description

clear	Reset functions
onep	One Platform
history	One Platform history trails
archived	One Platform archived session
session	One Platform session
all	All sessions
<i>onep-session-id</i>	Specific session name

Command Mode

- /exec

clear onep internal api statistics

```
clear onep internal api statistics { session { all | <onep-session-id> } }
```

Syntax Description

clear	Clear command
onep	ONE-P clear commands
internal	Internal commands
api	Thrift API calls
statistics	Clear internal ONE-P statistics
session	session
all	All current sessions
<i>onep-session-id</i>	Specific session

Command Mode

- /exec

clear onep session rate-limit

clear onep session rate-limit

Syntax Description

clear	Reset functions
onep	One Platform
session	One Platform session
rate-limit	rate limiting feature info

Command Mode

- /exec

clear onep statistics

clear onep statistics [session { all | <onep-session-id> }]

Syntax Description

clear	Reset functions
onep	One Platform
statistics	statistics
session	(Optional) One Platform session
all	(Optional) All sessions
<i>onep-session-id</i>	(Optional) Specific session name

Command Mode

- /exec

clear onep trace

clear onep trace

Syntax Description

clear	Reset functions
onep	One Platform
trace	Clear the ONE-P trace buffer

Command Mode

- /exec

clear openflow internal counters

```
clear openflow internal counters { mts | plifnxos | arp [ interface <ifname> ] }
```

Syntax Description

clear	Reset functions
openflow	Clear OpenFlow switch information
internal	Commands for internal use
counters	Clear internal counters
mts	Clear MTS send and receive stats
plifnxos	Clear counters for the L2RIB flow mods
arp	Clear ARP packet counters
interface	(Optional) Interface
<i>ifname</i>	(Optional) Interface name

Command Mode

- /exec

clear openflow internal pktflowdb

clear openflow internal pktflowdb

Syntax Description

clear	Reset functions
openflow	Clear OpenFlow switch information
internal	Commands for internal use
pktflowdb	Clear internal pktflowdb

Command Mode

- /exec

clear openflow internal switch flows stats table-id

clear openflow internal switch <switch-id> flows stats table-id <table-id> [interface <ifname>]

Syntax Description

clear	Reset functions
internal	Commands for internal use
openflow	Clear OpenFlow switch flows stats
switch	Logical switch id
<i>switch-id</i>	Logical switch-id
flows	Flows
stats	Clear packet count and bytes
table-id	Table-id for the pipeline
<i>table-id</i>	Table ID
interface	(Optional) Interface
<i>ifname</i>	(Optional) Interface name

Command Mode

- /exec

clear openflow switch controller all

clear openflow switch <switch-id> controller all

Syntax Description

clear	Reset functions
openflow	Clear OpenFlow switch information
switch	Logical switch id
<i>switch-id</i>	Logical switch-id
controller	Controller
all	All

Command Mode

- /exec

clear ospfv3 database

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] database [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ospfv3	Clear OSPF tables
<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	Clear the LSDB and all neighbors

Command Mode

- /exec

clear ospfv3 event-history

clear ospfv3 [<tag>] event-history [adjacency | event | ha | flooding | lsa | spf | redistribution | cli | hello | spf-trigger | all]

Syntax Description

clear	Reset functions
ospfv3	Debugging functions
<i>tag</i>	(Optional) Process tag
event-history	Clear the event history buffers
adjacency	(Optional) Adjacency formation logs
event	(Optional) Internal event logs
ha	(Optional) HA and GR logs
flooding	(Optional) LSA flooding logs
lsa	(Optional) LSA generation and database logs
spf	(Optional) SPF calculation logs
redistribution	(Optional) Redistribution logs
cli	(Optional) Cli logs
hello	(Optional) HELLO related logs
spf-trigger	(Optional) SPF TRIGGER related logs
all	(Optional) All event history buffers

Command Mode

- /exec

clear ospfv3 event-history detail

clear ospfv3 [<tag>] event-history detail

Syntax Description

clear	Reset functions
ospfv3	Debugging functions
<i>tag</i>	(Optional) Process tag
event-history	Clear the event history buffer
detail	Detailed event history buffer

Command Mode

- /exec

clear ospfv3 interface

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] interface { * | <interface> } [ vrf {
<vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ospfv3	Clear OSPF tables
<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	Clear one or more interfaces
*	Clear all interfaces
<i>interface</i>	Interface to clear

Command Mode

- /exec

clear ospfv3 internal interface-cache

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] internal interface-cache [ <interface>
] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ospfv3	Clear OSPF tables
<i>tag</i>	(Optional) Process tag
internal	Commands for internal use
interface-cache	Interface-cache
<i>interface</i>	(Optional) Interface to clear the interface-cache on
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

clear ospfv3 neighbor

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] neighbor { * | <neighborid> | <interface>
} [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ospfv3	Clear OSPF tables
<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
neighbor	Clear one or more neighbors
*	Clear all neighbors
<i>neighborid</i>	Source IP address, or router ID of the neighbor
<i>interface</i>	Interface to clear all neighbors on

Command Mode

- /exec

clear ospfv3 policy statistics

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

Syntax Description

clear	Reset functions
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	Clear Policy related information
statistics	Display Route Filter statistics
redistribute	Statistics for redistribution
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
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
lisp	LISP EID-prefixes
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

clear ospfv3 redistribution

```
clear ospfv3 [ <tag> ] redistribution [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ospfv3	Clear OSPF tables
<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
redistribution	Clear OSPFv3 route redistribution

Command Mode

- /exec

clear ospfv3 statistics

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] statistics [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ospfv3	Clear OSPF tables
<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	Clear statistics counters

Command Mode

- /exec

clear ospfv3 traffic

```
clear ospfv3 [ <tag> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] traffic [ <interface> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ]
```

Syntax Description

clear	Reset functions
ospfv3	Clear OSPF tables
<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
traffic	Clear traffic counters
<i>interface</i>	(Optional) Interface to clear all traffic on

Command Mode

- /exec

clear otv arp-nd

clear otv arp-nd [<l3_addr>]

Syntax Description

clear	Reset functions
otv	OTV events
arp-nd	Log ARP/ND caching clear
<i>l3_addr</i>	(Optional) L3 IP address

Command Mode

- /exec

clear otv internal event-history

clear otv internal event-history { event | learn | debug | arp-nd | packet | cli | delivery | fc | stp | all }

Syntax Description

clear	Reset functions
otv	OTV events
internal	Display OTV internal information
event-history	Clear the event history buffers
event	OTV Event logs
fc	OTV FC logs
learn	OTV Learn logs
debug	OTV Internal debug logs
arp-nd	OTV arp-nd logs
packet	OTV packet logs
cli	CLI logs
delivery	OTV Delivery logs
stp	OTV STP logs
all	All event history buffers

Command Mode

- /exec

clear otv isis adjacency

```
clear otv isis [ <otv-isis-tag> ] adjacency { * | { <interface> | system-id <sid> } } [ vpn { <vrf-name> | all } ]
```

Syntax Description

clear	Reset functions
otv	Clear OTV commands
isis	Clear IS-IS information
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
adjacency	Clear IS-IS adjacency state
*	IS-IS adjacencies on all interfaces
<i>interface</i>	IS-IS interface
system-id	Hostname or System ID
<i>sid</i>	Hostname or System ID (in the form of XXXX.XXXX.XXXX)

Command Mode

- /exec

clear otv isis event-history

```
clear otv isis [ <isis-tag> ] event-history [ <isis-event-hist-buf-name> ]
```

Syntax Description

clear	Reset functions
otv	Clear OTV commands
isis	Clear IS-IS information
<i>isis-tag</i>	(Optional) Routing process tag
event-history	Clear event history buffers
<i>isis-event-hist-buf-name</i>	(Optional) Clear the specific event history buffer

Command Mode

- /exec

clear otv isis internal packet queue counters

clear otv isis [<otv-isis-tag>] internal packet queue counters

Syntax Description

clear	Reset functions
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
internal	Commands for internal use
packet	Packet counters
queue	Packet queue counters
counters	Clear packet queue max counters

Command Mode

- /exec

clear otv isis internal perf timer

clear otv isis [<otv-isis-tag>] internal perf timer

Syntax Description

clear	Reset functions
otv	Display OTV information
isis	Display IS-IS status and configuration
<i>otv-isis-tag</i>	(Optional) Routing process tag
internal	Commands for internal use
perf	Performance
timer	Timer performance

Command Mode

- /exec

clear otv isis route-map statistics

```
clear otv isis [ <otv-isis-tag> ] [ ip ] route-map statistics [ vpn { <vrf-name> | all } ]
```

Syntax Description

clear	Reset functions
otv	Clear OTV commands
isis	Clear IS-IS information
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
ip	(Optional) Clear IS-IS IPv4 information
route-map	Clear IS-IS route-map information
statistics	Clear IS-IS route-map statistics

Command Mode

- /exec

clear otv isis statistics

```
clear otv isis [ <otv-isis-tag> ] statistics { * | <interface> } [ vpn { <vrf-name> | all } ]
```

Syntax Description

clear	Reset functions
otv	Clear OTV commands
isis	Clear IS-IS information
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
statistics	Clear IS-IS protocol statistics
*	All IS-IS protocol statistics
<i>interface</i>	IS-IS interface

Command Mode

- /exec

clear otv isis traffic

```
clear otv isis [ <otv-isis-tag> ] traffic { * | <interface> } [ vpn { <vrf-name> | all } ]
```

Syntax Description

clear	Reset functions
otv	Clear OTV commands
isis	Clear IS-IS information
<i>otv-isis-tag</i>	(Optional) Routing process tag
vpn	(Optional) Display VPN information
<i>vrf-name</i>	(Optional) VPN name
all	(Optional) All configured VPNs
traffic	Clear IS-IS traffic information
*	All IS-IS traffic information
<i>interface</i>	IS-IS interface

Command Mode

- /exec

clear pktmgr cache interface

```
clear pktmgr cache { { interface [ <intf> ] } | { vlan [ <vl> ] } }
```

Syntax Description

clear	Reset functions
pktmgr	Clear Packet Manager information
cache	Clear pktmgr cache
interface	Clear pktmgr related interface information
vlan	Clear pktmgr related vlan information
<i>intf</i>	(Optional) Interface name to clear
<i>vl</i>	(Optional) Vlan

Command Mode

- /exec

clear pktmgr client

clear pktmgr client [<uuid>]

Syntax Description

clear	Reset functions
pktmgr	Clear Packet Manager information
client	Clear pktmgr clients counters
<i>uuid</i>	(Optional) Clear pktmgr client counters for given uuid

Command Mode

- /exec

clear pktmgr interface

clear pktmgr interface [<interface>]

Syntax Description

clear	Reset functions
pktmgr	Clear Packet Manager information
interface	Clear pktmgr related interface information
<i>interface</i>	(Optional) Interface name to display

Command Mode

- /exec

clear plb analytics

clear plb analytics <service-name>

Syntax Description

clear	Reset functions
plb	PLB service
analytics	PLB analytics
<i>service-name</i>	PLB service name

Command Mode

- /exec

clear port-profile command-cache

clear port-profile command-cache [interface <intfname>]

Syntax Description

clear	Reset functions
port-profile	Clear port-profiles
command-cache	Clear port-profile command cache
interface	(Optional) Name of interface
<i>intfname</i>	(Optional) Name of interface

Command Mode

- /exec

clear port-profile database

clear port-profile database

Syntax Description

clear	Reset functions
port-profile	Clear port-profiles
database	Clear port-profile database

Command Mode

- /exec

clear port-security dynamic address vlan

clear port-security dynamic address <mac-address> vlan <vlanid>

Syntax Description

clear	Reset functions
port-security	Clear port-security information
dynamic	dynamic addresses
address	secure address
<i>mac-address</i>	48 bit mac address
vlan	vlan information
<i>vlanid</i>	vlan id. Enter a value between 1 and 4094

Command Mode

- /exec

clear port-security dynamic interface

clear port-security dynamic interface <if_index> [vlan <vlanid>]

Syntax Description

clear	Reset functions
port-security	Clear port-security information
dynamic	dynamic addresses
interface	interface
<i>if_index</i>	ethernet
vlan	(Optional) vlan information
<i>vlanid</i>	(Optional) vlan id. Enter a value between 1 and 4094

Command Mode

- /exec

clear port-security nvram

clear port-security nvram

Syntax Description

clear	Reset functions
port-security	Clear port-security information
nvram	port-security nvram

Command Mode

- /exec

clear processes log all

clear processes log all

Syntax Description

clear	Reset functions
processes	process-related clear commands
log	Delete log files
all	Delete all the log files

Command Mode

- /exec

clear processes log all vdc-all

clear processes log all vdc-all

Syntax Description

clear	Reset functions
processes	process-related clear commands
log	Delete log files
all	Delete all the log files
vdc-all	Delete all the log files in all vdc's

Command Mode

- /exec

clear processes log archive

clear processes log archive [file <so>]

Syntax Description

clear	Reset functions
processes	system manager spawned processes
log	Delete log files
archive	clear all process logs for this vdc from logflash on this module
file	(Optional) delete a log file on logflash
so	(Optional) Name of file in directory 'log'

Command Mode

- /exec

clear processes log pid

clear processes log pid <i0>

Syntax Description

clear	Reset functions
processes	process-related clear commands
log	Delete log files
pid	Delete log file of a specific process
<i>i0</i>	pid of the process

Command Mode

- /exec

clear processes vdc log all

clear processes vdc <e-vdc2> log all

Syntax Description

clear	Reset functions
processes	process-related clear commands
vdc	process-related clear commands in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Delete log files
all	Delete all the log files

Command Mode

- /exec

clear processes vdc log pid

clear processes vdc <e-vdc2> log pid <i1>

Syntax Description

clear	Reset functions
processes	process-related clear commands
vdc	process-related clear commands in vdc
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
log	Delete log files
pid	Delete log file of a specific process
<i>i1</i>	pid of the process

Command Mode

- /exec

clear ptp counters interface

```
clear ptp counters { interface <if0> | all }
```

Syntax Description

clear	Reset functions
ptp	Precision Time Protocol (IEEE 1588) Subsystem
counters	Display PTP packet counters
interface	Enter the port interface
all	Displays all information
<i>if0</i>	

Command Mode

- /exec

clear qos mpls-snmp

clear qos mpls-snmp

Syntax Description

clear	Reset functions
mpls-snmp	MPLS default table-map and snmp indices in pss

Command Mode

- /exec

clear qos policies

clear qos policies

Syntax Description

clear	Reset functions
policies	Clear default policies

Command Mode

- /exec

clear qos policies force

clear qos policies force

Syntax Description

clear	Reset functions
policies	Clear default policies
force	Clear forcefully

Command Mode

- /exec

clear qos statistics

```
clear qos statistics [ { interface [ <iface-list> ] | vlan [ <vlan-list> ] } [ input | output ] [ type <qos-or-q> ] ]
```

Syntax Description

clear	Reset functions
statistics	Clear statistics
interface	(Optional) Clear statistics on a interface
<i>iface-list</i>	(Optional) List of Interfaces
vlan	(Optional) 802.1Q vlan
<i>vlan-list</i>	(Optional) List of vlan ids
input	(Optional) Input Service policy
output	(Optional) Output Service policy
type	(Optional) Policy type
<i>qos-or-q</i>	(Optional)

Command Mode

- /exec

clear queuing burst-detect

```
clear queuing burst-detect [ interface <if_name> [ queue <queue_num> ] ] [ module <module> ]
```

Syntax Description

clear	Clear all entries
queuing	Queuing related information
burst-detect	Out of Band micro-burst queue statistics
interface	(Optional) Interface
<i>if_name</i>	(Optional) interface name
queue	(Optional) Queue number for displaying statistics
<i>queue_num</i>	(Optional) Queue number
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number

Command Mode

- /exec

clear queuing pfc-queue

clear queuing pfc-queue [interface <if_list>]

Syntax Description

clear	Reset functions
queuing	clear queuing related counters
pfc-queue	clear watchdog timers
interface	(Optional) Interface
<i>if_list</i>	(Optional) List of interfaces

Command Mode

- /exec

clear queuing pfc-queue interface

clear queuing pfc-queue interface <if_list>

Syntax Description

clear	Reset functions
queuing	clear queuing related counters
pfc-queue	clear watchdog timers
interface	Interface
<i>if_list</i>	List of interfaces

Command Mode

- /exec

clear queuing tah-pfc-queue

clear queuing tah-pfc-queue [interface <if_list>] [module <module>]

Syntax Description

clear	Clear
queuing	Queuing related information
tah-pfc-queue	PFC watchdog queuing related stats
interface	(Optional) Interface for clearing queuing stats
<i>if_list</i>	(Optional) List of interfaces
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number

Command Mode

- /exec

clear radius-server statistics

```
clear 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

clear	Reset functions
radius-server	Clear RADIUS related parameters
statistics	Clear 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_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

clear radius session

clear radius session

Syntax Description

clear	Reset functions
radius	clear to be committed RADIUS config and lock in fabric
session	clear to be committed RADIUS config and lock in fabric

Command Mode

- /exec

clear rmon

clear rmon { alarms | events | logs | hcalarms | all-alarms }

Syntax Description

clear	Reset functions
rmon	Clear RMON tables
alarms	Clear all 32 bit alarms
events	Clear rmon log this also clears rmon event table
logs	Clear rmon log
hcalarms	Clear all 64 bit rmon alarms
all-alarms	Clear all 32 bit and 64 bit rmon alarms

Command Mode

- /exec

clear route-map pbr-statistics

```
clear route-map { <route-map-name> | <route-map-cfg-name> } pbr-statistics
```

Syntax Description

clear	Reset functions
route-map	Route-map used for PBR
<i>route-map-name</i>	Route-map name
<i>route-map-cfg-name</i>	Known route-map name
pbr-statistics	Statistics for policy based routing

Command Mode

- /exec

clear routing event-history

```
clear routing [ ip | ipv4 ] [ unicast ] event-history { add-route | cli | delete-route | detail | errors | general | ha |
loop-detection | modify-route | notifications | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary
}
```

Syntax Description

clear	Reset functions
routing	Clear routing information
ip	(Optional) Clear IP commands
ipv4	(Optional) Clear IP commands
unicast	(Optional) Clear unicast information
event-history	Clear routing event log
add-route	Add route
cli	CLI
delete-route	Delete route
detail	Detail
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

Command Mode

- /exec

clear routing ipv6 event-history

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

Syntax Description

clear	Reset functions
routing	Clear routing information
ipv6	Clear IPv6 commands
unicast	(Optional) Clear unicast information
event-history	Clear routing 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

clear routing memstats

```
clear routing [ ip | ipv4 ] [ unicast ] memstats
```

Syntax Description

clear	Reset functions
routing	Clear routing information
ip	(Optional) Clear IP commands
ipv4	(Optional) Clear IP commands
unicast	(Optional) Display unicast information
memstats	Clear urib memory statistics

Command Mode

- /exec

clear rpm pss

clear rpm pss { running | startup | all }

Syntax Description

clear	Reset functions
rpm	Route Policy Manager (RPM)
pss	Clear PSS related information
running	Clear the running PSS commands configuration
startup	Clear the startup PSS commands configuration
all	Clear all PSS commands configuration

Command Mode

- /exec

clear scheduler logfile

clear scheduler logfile

Syntax Description

clear	Reset functions
scheduler	Scheduler clear commands
logfile	Clear scheduler log file

Command Mode

- /exec

clear screen

clear screen

Syntax Description

clear	Reset functions
screen	Clear screen

Command Mode

- /exec

clear session state name

clear session state name <s4>

Syntax Description

clear	Reset functions
session	Reset cfg session internals
state	Reset cfg session internal state
name	Reset cfg session internal state for a given name
s4	Enter the name of the session

Command Mode

- /exec

clear sflow statistics

clear sflow statistics

Syntax Description

clear	Reset functions
sflow	sFlow global configuration
statistics	Clear sFlow statistics

Command Mode

- /exec

clear snmp counters

clear snmp counters

Syntax Description

clear	Reset functions
snmp	Clear SNMP Tables
counters	Clear SNMP counters

Command Mode

- /exec

clear snmp hostconfig

clear snmp hostconfig

Syntax Description

clear	Reset functions
snmp	Clear SNMP Tables
hostconfig	Clear SNMP Host List

Command Mode

- /exec

clear sockets internal event-history

clear sockets internal event-history { errors | setup | ha | event | proto | log | all } [dump-to-file]

Syntax Description

clear	Reset functions
sockets	Display sockets status and configuration
internal	Commands for internal use
event-history	various event logs of sockets
errors	Clear error logs of sockets
setup	Clear setup debug message buffer of sockets
ha	Clear ha debug message buffer of sockets
event	Clear events/pcb debug message of sockets
proto	Clear tcp/udp/raw ip debug message of sockets
log	Clear syslog message of sockets
all	Clear all event history buffers
dump-to-file	(Optional) Dump the sockets event history logs into the file

Command Mode

- /exec

clear sockets statistics

clear sockets statistics { all | tcp | tcp6 | udp | udp6 | raw | raw6 }

Syntax Description

clear	Reset functions
sockets	Clear sockets statistics
statistics	Clear sockets statistics
all	Clear TCP/UDP/RAW v4/v6 statistics
tcp	Clear TCP v4 statistics
tcp6	Clear TCP v6 statistics
udp	Clear UDP v4 statistics
udp6	Clear UDP v6 statistics
raw	Clear RAW v4 statistics
raw6	Clear RAW v6 statistics

Command Mode

- /exec

clear spanning-tree counters

clear spanning-tree counters [interface <interface-id> | vlan <vlan-id> | bridge-domain <bd-id>]

Syntax Description

clear	Reset functions
spanning-tree	Spanning Tree Subsystem
counters	Clear spanning tree statistics
interface	(Optional) Specify an interface as a target for the command
<i>interface-id</i>	(Optional) Specify an interface as a target for the command
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

Command Mode

- /exec

clear spanning-tree detected-protocols

clear spanning-tree detected-protocols [interface <interface-id>]

Syntax Description

clear	Reset functions
spanning-tree	Spanning Tree Subsystem
detected-protocols	Restart the protocol migration process
interface	(Optional) Specify an interface as a target for the command
<i>interface-id</i>	(Optional) Specify an interface as a target for the command

Command Mode

- /exec

clear spanning-tree sps-hist

clear spanning-tree sps-hist

Syntax Description

clear	Reset functions
spanning-tree	Spanning Tree Subsystem
sps-hist	Set port state stats

Command Mode

- /exec

clear ssh hosts

clear ssh hosts

Syntax Description

clear	Reset functions
ssh	Clear ssh values
hosts	Clear the list of trusted ssh hosts

Command Mode

- /exec

clear system internal adjmgr event-history

clear system internal adjmgr event-history { control | errors | ipc | stats | ha | cli | sdb | snmp | ksink | nb | dme-event | event | all } [dump-to-file]

Syntax Description

clear	Reset functions
system	System-related show commands
internal	Commands for internal use
adjmgr	AM information
event-history	various event logs of Adjmgr
control	Clear control logs of Adjmgr
errors	Clear error logs of Adjmgr
ipc	Clear ipc debug message logs of Adjmgr
stats	Clear stats debug message logs of Adjmgr
ha	Clear ha debug message logs of Adjmgr
cli	Clear cli related events of Adjmgr
sdb	Clear sdb debug message logs of Adjmgr
snmp	Clear snmp debug message logs of Adjmgr
ksink	Clear ksink debug message logs of Adjmgr
nb	Clear netbroker debug message logs of Adjmgr
dme-event	Clear dme event logs of Adjmgr
event	Clear event logs of Adjmgr
all	Clear all event-history logs of Adjmgr
dump-to-file	(Optional) Dump the AdjMgr event history logs into the file

Command Mode

- /exec

clear system internal forwarding pd-history

clear system internal forwarding pd-history

Syntax Description

clear	Clear bintrace entries
system	System-related show commands
internal	Commands for internal use
forwarding	forwarding
pd-history	MFDM DI history

Command Mode

- /exec

clear system internal forwarding pd-history bitmask

clear system internal forwarding pd-history bitmask

Syntax Description

clear	Clear bintrace entries
system	System-related show commands
internal	Commands for internal use
forwarding	forwarding
pd-history	MFDM DI history
bitmask	Bitmask

Command Mode

- /exec

clear system internal forwarding unicast counters

clear system internal forwarding unicast counters

Syntax Description

clear	Show running system information
system	System-related show commands
internal	Commands for internal use
forwarding	Show fib information
unicast	show unicast information
counters	Show mpls pd counters

Command Mode

- /exec

clear system internal nbm counters

clear system internal nbm counters

Syntax Description

clear	Reset functions
system	System-related show commands
internal	Commands for internal use
nbm	Non Blocking Multicast
counters	Counters

Command Mode

- /exec

clear system internal nbm events-bt-history

clear system internal nbm events-bt-history

Syntax Description

clear	Reset functions
system	System-related show commands
internal	Commands for internal use
nbm	Non Blocking Multicast
events-bt-history	events bt history

Command Mode

- /exec

clear system internal nbm flow-bt-history

clear system internal nbm flow-bt-history

Syntax Description

clear	Reset functions
system	System-related show commands
internal	Commands for internal use
nbm	Non Blocking Multicast
flow-bt-history	flow bt history

Command Mode

- /exec

clear system internal nbm host-bt-history

clear system internal nbm host-bt-history

Syntax Description

clear	Reset functions
system	System-related show commands
internal	Commands for internal use
nbm	Non Blocking Multicast
host-bt-history	host bt history

Command Mode

- /exec

clear system internal nbm receiver-bt-history

clear system internal nbm receiver-bt-history

Syntax Description

clear	Reset functions
system	System-related show commands
internal	Commands for internal use
nbm	Non Blocking Multicast
receiver-bt-history	rc bt history

Command Mode

- /exec

clear system internal nbm receiver-list

```
clear system internal nbm receiver-list { <grp> <src> <rep> <oif-name> | all }
```

Syntax Description

clear	Reset functions
system	System-related show commands
internal	Commands for internal use
nbm	Non Blocking Multicast
receiver-list	Receiver list
<i>grp</i>	Multicast group address
<i>src</i>	Source address
<i>rep</i>	Reporter address
<i>oif-name</i>	Outgoing interface name
all	Entire list

Command Mode

- /exec

clear system internal nbm sender-bt-history

clear system internal nbm sender-bt-history

Syntax Description

clear	Reset functions
system	System-related show commands
internal	Commands for internal use
nbm	Non Blocking Multicast
sender-bt-history	send bt history

Command Mode

- /exec

clear system internal nbm sender-list

```
clear system internal nbm sender-list { <grp> <src> | all }
```

Syntax Description

clear	Reset functions
system	System-related show commands
internal	Commands for internal use
nbm	Non Blocking Multicast
sender-list	Sender list
<i>grp</i>	Multicast group address
<i>src</i>	Source address
all	Entire list

Command Mode

- /exec

clear system internal nbm shm table

clear system internal nbm shm table [<i0>]

Syntax Description

clear	Reset functions
system	System-related show commands
internal	Commands for internal use
nbm	Non Blocking Multicast
shm	Shared Memory related commands
table	SHM table
<i>i0</i>	(Optional) If Index

Command Mode

- /exec

clear system internal nbm timelapse-bt-history

clear system internal nbm timelapse-bt-history

Syntax Description

clear	Reset functions
system	System-related show commands
internal	Commands for internal use
nbm	Non Blocking Multicast
timelapse-bt-history	timelapse

Command Mode

- /exec

clear system internal npacl event-history

clear system internal npacl event-history { acl | ppf | cli | internal | all } [dump-to-file]

Syntax Description

clear	Reset functions
system	system
internal	Commands for internal use
npacl	Configure NPACL feature
event-history	event history
acl	Clear acl policy history
ppf	Clear ppf interaction history
cli	Clear cli history
internal	Clear internal
all	Clear all history buffers
dump-to-file	(Optional) Dump the npacl event history logs into the file

Command Mode

- /exec

clear system internal orib event-history

clear system internal orib event-history [<orib-event-hist-buf-name>] [verbose]

Syntax Description

clear	Reset functions
system	Clear logs in system
internal	Commands for internal use
orib	Clear ORIB commands
event-history	ORIB event logs
<i>orib-event-hist-buf-name</i>	(Optional) Event history buffer
verbose	(Optional) Do not add per route info into buffer

Command Mode

- /exec

clear system internal pktmgr internal event-history

clear system internal pktmgr internal event-history { errors | control | log | ha | pkt-errors | pkt-buffer | all } [dump-to-file]

Syntax Description

clear	Reset functions
system	System-related show commands
internal	Commands for internal use
pktmgr	Clear Packet Manager information
internal	Commands for internal use
event-history	Clear various event logs of Pktmgr
errors	Clear error logs of Pktmgr
control	Clear control message of Pktmgr
log	Clear syslog message of Pktmgr
ha	Clear ha debug message of Pktmgr
pkt-errors	Clear pkt error message of Pktmgr
pkt-buffer	Clear pkt buffers message of Pktmgr
all	All event history buffers
dump-to-file	(Optional) Dump the PktMgr event history logs into the file

Command Mode

- /exec

clear system internal plbm event-history debug-logs

clear system internal plbm event-history debug-logs

Syntax Description

clear	clear help
system	System-related show commands
internal	Commands for internal use
plbm	PLBM information
event-history	various trace logs of plbm
debug-logs	debug-logs

Command Mode

- /exec

clear system internal virtual-service utilization statistics CPU

clear system internal virtual-service utilization statistics CPU

Syntax Description

clear	Reset functions
system	Enable debugging of system components
internal	Commands for internal use
virtual-service	Clear statistics of virtual service
utilization	Utilization information about virtual service
statistics	Clear statistics of virtual service
CPU	Clear CPU statistics of virtual service

Command Mode

- /exec

clear system login failures

clear system login failures

Syntax Description

clear	Reset functions
system	System management commands
login	Secure Login
failures	Clear login failures in the current watch period

Command Mode

- /exec

clear system reset-reason

clear system reset-reason

Syntax Description

clear	Reset functions
system	Clear logs in system
reset-reason	Clear reset-reason logs in the system

Command Mode

- /exec

clear system reset-reason history

clear system reset-reason history

Syntax Description

clear	Reset functions
system	Clear logs in system
reset-reason	Clear reset-reason logs in the system
history	Clear reset-reason history logs in the system

Command Mode

- /exec

clear tacacs-server statistics

```
clear 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

clear	Reset functions
tacacs-server	Clear TACACS related parameters
statistics	Clear 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_timedout</i>	(Optional) Authorization: Requests timedout
<i>autho_resp_no_match</i>	(Optional) Authorization: Responses with no matching requests
<i>autho_resp_not_processed</i>	(Optional) Authorization: Responses not processed
<i>autho_resp_error</i>	(Optional) Authorization: Responses containing errors
<i>acct_failed_transactions</i>	(Optional) Accounting: Failed transactions
<i>acct_succ_transactions</i>	(Optional) Accounting: Successful transactions
<i>acct_req_sent</i>	(Optional) Accounting: Requests sent
<i>acct_req_timedout</i>	(Optional) Accounting: Requests timedout
<i>acct_resp_no_match</i>	(Optional) Accounting: Responses with no matching requests
<i>acct_resp_not_processed</i>	(Optional) Accounting: Responses not processed
<i>acct_resp_error</i>	(Optional) Accounting: Responses containing errors

Command Mode

- /exec

clear tech-support lock

clear tech-support lock

Syntax Description

clear	Reset functions
tech-support	Gather information for troubleshooting
lock	Clear the lock which prohibits multiple show techs to run in parallel

Command Mode

- /exec

clear tech-support lock

clear tech-support lock

Syntax Description

clear	Reset functions
tech-support	Gather information for troubleshooting
lock	Clear the lock which prohibits multiple show techs to run in parallel

Command Mode

- /exec

clear track internal info counters

clear track internal info counters

Syntax Description

clear	Reset functions
track	Clear track information
internal	Clear internal track information
info	Clear internal data structure information
counters	Clear track counters information

Command Mode

- /exec

clear user

clear user <*s0*>

Syntax Description

clear	Reset functions
user	Logout a particular user
<i>s0</i>	Enter the username

Command Mode

- /exec

clear veobc counters

clear veobc counters

Syntax Description

clear	Reset function
veobc	Reset the veobc counters
counters	Reset the veobc statistic counters to zero

Command Mode

- /exec

clear vlan access-list counters

clear vlan access-list counters [<name>]

Syntax Description

clear	Reset functions
vlan	Vlan commands
access-list	Clear access list statistical information
counters	Clear access list counters
<i>name</i>	(Optional) List name

Command Mode

- /exec

clear vlan counters

```
clear vlan [ id <vlan-id> ] counters
```

Syntax Description

clear	Reset functions
vlan	Vlan commands
id	(Optional) clear VLAN counters by VLAN id
<i>vlan-id</i>	(Optional) VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
counters	display counters

Command Mode

- /exec

clear vmtracker counters

clear vmtracker counters

Syntax Description

clear	Clear
vmtracker	Clear vmtracker info
counters	Clear vmtracker counter info

Command Mode

- /exec

clear vpc statistics all

clear vpc statistics all

Syntax Description

clear	Reset functions
vpc	Virtual Port Channel configuration
statistics	Statistics
all	All vPC statistics

Command Mode

- /exec

clear vpc statistics peer-keepalive

clear vpc statistics peer-keepalive

Syntax Description

clear	Reset functions
vpc	Virtual Port Channel configuration
statistics	Statistics
peer-keepalive	peer keepalive module related statistics

Command Mode

- /exec

clear vpc statistics vpc

```
clear vpc statistics { vpc <vpc_num> | peer-link }
```

Syntax Description

clear	Reset functions
vpc	Statistics for a specific vPC
statistics	Statistics
<i>vpc_num</i>	Virtual Port Channel number
peer-link	stats for peer-link

Command Mode

- /exec

clear vpc transport statistics

clear vpc transport statistics [__readonly__ <last-clear-time>]

Syntax Description

clear	Reset functions
vpc	Virtual Port Channel configuration
transport	cfs transport
statistics	Statistics
__readonly__	(Optional) Read Only
<i>last-clear-time</i>	(Optional) time difference from last clear time

Command Mode

- /exec/

clear vrrp statistics

```
clear vrrp statistics [ interface <intf_num> ] [ vr <vr_id> ]
```

Syntax Description

clear	Reset functions
vrrp	Clear virtual router
statistics	Clear global virtual router statistics
interface	(Optional) Select interface
<i>intf_num</i>	(Optional)
vr	(Optional) [1-255] clear virtual router statistics
<i>vr_id</i>	(Optional)

Command Mode

- /exec

clear vrrpv3 event-history

clear vrrpv3 event-history { debugs | errors | msgs | all }

Syntax Description

clear	Reset functions
vrrpv3	VRRPv3 Clear commands
event-history	Clear event history buffers of vrrpv3
debugs	Clear debug event buffer of vrrpv3
errors	Clear errors event buffer of vrrpv3
msgs	Clear MTS event buffer of vrrpv3
all	Clear all event buffers of vrrpv3

Command Mode

- /exec

clear vrrpv3 statistics

clear vrrpv3 statistics [<interface_num> [<group_num>]] [<opt_v4_or_v6>]

Syntax Description

clear	Reset functions
vrrpv3	VRRPv3 Clear commands
statistics	VRRPV3 statistics
<i>interface_num</i>	(Optional) Interface
<i>group_num</i>	(Optional) Group number
<i>opt_v4_or_v6</i>	(Optional) Enter ipv4 or ipv6

Command Mode

- /exec

clear xl

clear xl

Syntax Description

clear	Reset functions
xl	

Command Mode

- /exec

cli alias name

{ cli alias name <s0> <line> | no cli alias name <s0> [<line>] }

Syntax Description

no	Negate a command or set its defaults
cli	Configure CLI commands
alias	Define an alias
name	Specify the alias
<i>s0</i>	Alias command
<i>line</i>	Alias definition

Command Mode

- /exec/configure

cli create new-cmd

{ cli create new-cmd <s0> | no cli create new-cmd <s0> }

Syntax Description

no	Negate a command or set its defaults
cli	Configure cli commands
create	Create a new cli
new-cmd	Specify the new cli
s0	new cli command (should include spaces)

Command Mode

- /exec/configure

cli reload parsetree

cli reload parsetree

Syntax Description

cli	
reload	
parsetree	

Command Mode

- /exec

cli show running-config local

cli show running-config local

Syntax Description

cli	
show	
running-config	
local	

Command Mode

- /exec

cli var name

{ cli var name <s0> <line> | no cli var name <s0> [<line>] }

Syntax Description

no	Negate a command or set its defaults
cli	Configure CLI commands
var	Define a variable
name	Specify a variable name
<i>s0</i>	Variable name
<i>line</i>	Variable value

Command Mode

- /exec/configure

cli var name

cli no var name <s0>

Syntax Description

cli	CLI commands
no	Negate a command or set its defaults
var	Unset a variable
name	Specify a variable name
s0	Variable name

Command Mode

- /exec

cli var name

[no] cli var name <s0>

Syntax Description

no	Negate a command or set its defaults
cli	CLI commands
var	Unset a variable
name	Specify a variable name
s0	Variable name

Command Mode

- /exec

cli var name

cli var name <s0> <line>

Syntax Description

cli	CLI commands
var	Define a variable
name	Specify a variable name
<i>s0</i>	Variable name
<i>line</i>	Variable value

Command Mode

- /exec

cli verifyrun

[no] cli verifyrun

Syntax Description

no	(Optional) Negate a command or set its defaults
cli	CLI commands
verifyrun	Verify and run

Command Mode

- /exec

client-to-client reflection

[no] client-to-client reflection

Syntax Description

no	(Optional) Negate a command or set its defaults
client-to-client	Configure client-to-client route reflection
reflection	reflection of routes permitted

Command Mode

- /exec/configure/router-bgp/router-bgp-af

clis all

clis { no debug | undebug } all

Syntax Description

clis	dcos cli command
no	Negate a command or set its defaults
undebug	Disable Debugging functions (See also debug)
debug	Debugging functions
all	Disable

Command Mode

- /exec

clock-tolerance ntp oneway absolute

```
{ { no | default } clock-tolerance | clock-tolerance ntp oneway { absolute <abs-value> | percent <percentage> } }
```

Syntax Description

no	
<i>clock-tolerance</i>	ntp
default	Set a command to its defaults
clock-tolerance	Set acceptable clock synchronization error
ntp	Acceptable clock synchronization error due to NTP
oneway	Acceptable clock synchronization error in oneway measurement
absolute	Acceptable error in microseconds
percent	Acceptable error as percent of value measured
<i>abs-value</i>	Number in microseconds
<i>percentage</i>	Percentage of one-way delay

Command Mode

- /exec/configure/ip-sla/jitter

clock format 12

[no] clock format { 12-hours | 24-hours }

Syntax Description

no	(Optional) Negate a command or set its defaults
clock	Clock
format	Display format of clock
12-hours	12 hours display
24-hours	24 hours display

Command Mode

- /exec/configure

clock format show-timezone debug

[no] clock format show-timezone debug

Syntax Description

no	(Optional) Negate a command or set its defaults
clock	Clock
format	Display format of clock
show-timezone	Display the configured timezone
debug	Display the configured timezone in debugs

Command Mode

- /exec/configure

clock format show-timezone syslog

[no] clock format show-timezone syslog

Syntax Description

no	(Optional) Negate a command or set its defaults
clock	Clock
format	Display format of clock
show-timezone	Display the configured timezone
syslog	Display the configured timezone in syslogs

Command Mode

- /exec/configure

clock protocol

[no] clock protocol { ntp | ptp | none } vdc <vdc-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
clock	Clock
protocol	protocol
ntp	ntp
ptp	ptp
none	none (clock can be set manually)
vdc	vdc
<i>vdc-id</i>	vdc-id

Command Mode

- /exec/configure

clock set

clock set <s0> <i0> { April <i1> | August <i2> | December <i3> | February <i4> | January <i5> | July <i6> | June <i7> | March <i8> | May <i9> | November <i10> | October <i11> | September <i12> }

Syntax Description

clock	Clock
set	HH:MM:SS Current Time
s0	HH:MM:SS Current Time
i0	Day of the month
April	Month of the year
i1	Enter the year (no abbreviation)
August	Month of the year
i2	Enter the year (no abbreviation)
December	Month of the year
i3	Enter the year (no abbreviation)
February	Month of the year
i4	Enter the year (no abbreviation)
January	Month of the year
i5	enter the year (no abbreviation)
July	Month of the year
i6	Enter the year (no abbreviation)
June	Month of the year
i7	Enter the year (no abbreviation)
March	Month of the year
i8	Enter the year (no abbreviation)
May	Month of the year
i9	Enter the year (no abbreviation)
November	Month of the year
i10	Enter the year (no abbreviation)

October	Month of the year
<i>i11</i>	Enter the year (no abbreviation)
September	Month of the year
<i>i12</i>	Enter the year (no abbreviation)

Command Mode

- /exec

clock summer

```
{ clock { summer-time <s0> [ <i0> <s1> <s2> <s3> <i1> <s4> <s5> <s6> [ <i2> ] ] | timezone <s7> <i3>
<i4> } | no clock { summer-time [ <s0> <i0> <s1> <s2> <s3> <i1> <s4> <s5> <s6> <i2> ] | timezone [ <s7>
<i3> <i4> ] } }
```

Syntax Description

no	Negate a command or set its defaults
clock	Clock
summer-time	Configure summer (daylight savings) time
<i>s0</i>	Name of time zone in summer, such as PDT, CDT, EDT, etc..
<i>i0</i>	(Optional) Week number to start (first week=1, last week=5)
<i>s1</i>	(Optional) Weekday to start
<i>s2</i>	(Optional) Month to start
<i>s3</i>	(Optional) HH:MM Time to start
<i>i1</i>	(Optional) Week number to end (first week=1, last week=5)
<i>s4</i>	(Optional) Weekday to end
<i>s5</i>	(Optional) Month to end
<i>s6</i>	(Optional) HH:MM Time to end
<i>i2</i>	(Optional) Offset to add in minutes
timezone	Configure time zone
<i>s7</i>	Name of time zone, such as PST, MST, CST, EST, etc..
<i>i3</i>	Hours offset from UTC
<i>i4</i>	Minutes offset from UTC

Command Mode

- /exec/configure

clock sync-interval

[no] clock sync-interval <intv>

Syntax Description

no	(Optional) Negate a command or set its defaults
clock	Clock
sync-interval	sync-interval in seconds
<i>intv</i>	interval

Command Mode

- /exec/configure

cluster-id

[no] cluster-id { <ip-cluster-id> | <int-cluster-id> }

Syntax Description

no	(Optional) Negate a command or set its defaults
cluster-id	Configure Route Reflector Cluster-ID
<i>ip-cluster-id</i>	Cluster-id as an IP address
<i>int-cluster-id</i>	Cluster-id as a 32 bit quantity

Command Mode

- /exec/configure/router-bgp/vrf-cmds

collect counter bytes

[no] collect counter { bytes | packets } [long]

Syntax Description

collect	Specify a non-key field
counter	Counters to collect
bytes	Total number of bytes
packets	Total number of packets
long	(Optional) Long counter (64 bits)

Command Mode

- /exec/configure/nfm-record

collect ip version

[no] collect ip version

Syntax Description

collect	Specify a non-key field
ip	IP attributes
version	IPv4 or IPv6

Command Mode

- /exec/configure/nfm-record

collect timestamp sys-uptime first

[no] collect timestamp sys-uptime { first | last }

Syntax Description

collect	Specify a non-key field
timestamp	Timestamp fields
sys-uptime	System uptime
first	Time the first packet was seen
last	Time the most recent packet was seen

Command Mode

- /exec/configure/nfm-record

collect transport tcp flags

[no] collect transport tcp flags

Syntax Description

collect	Specify a non-key field
transport	Transport layer fields
tcp	TCP layer fields
flags	TCP flags

Command Mode

- /exec/configure/nfm-record

commit

commit

Syntax Description

commit	commit itd session
--------	--------------------

Command Mode

- /exec/configure/itd-session-device-group

commit

commit

Syntax Description

commit	Commit the current configuration session
--------	--

Command Mode

- /exec/configure

commit

commit

Syntax Description

commit	commit plb session
--------	--------------------

Command Mode

- /exec/configure/plb-session-device-group

commit verbose

commit verbose

Syntax Description

commit	Commit the current configuration session
verbose	Commit the current configuration session with more details

Command Mode

- /exec/configure

compress-bitfields ipv6 multicast

[no] compress-bitfields ipv6 multicast

Syntax Description

no	(Optional) Negate a command or set its defaults
compress-bitfields	Compress bitfields for improved memory utilization
ipv6	Use for IPv6 multicast
multicast	Use compressed bitfields for M6RIB and PIM6

Command Mode

- /exec/configure

conf-offset

[no] conf-offset <offset>

Syntax Description

conf-offset	Configure Confidentiality offset
<i>offset</i>	Confidentiality offset options

Command Mode

- /exec/configure/masec-policy

confederation identifier

[no] confederation identifier <confed-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
confederation	AS confederation parameters
identifier	Set routing domain confederation AS
<i>confed-id</i>	AS number

Command Mode

- /exec/configure/router-bgp/vrf-cmds

confederation peers

[no] confederation peers <confed-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
confederation	AS confederation parameters
peers	Peer ASs in BGP confederation
<i>confed-id</i>	AS number

Command Mode

- /exec/configure/router-bgp/vrf-cmds

config-source controller

[no] config-source controller

Syntax Description

no	(Optional) Negate a command or set its defaults
config-source	Configuration source for this NVE interface. Defaults to CLI
controller	Controller

Command Mode

- /exec/configure/if-nve

configure

configure [terminal]

Syntax Description

configure	Enter configuration mode
terminal	(Optional) Configure the system from terminal input

Command Mode

- /exec

configure config-template create substitute

[no] configure config-template <name> { type vrf } { create | delete } substitute <match_replace>

Syntax Description

no	(Optional) Negate a command or set its defaults
configure	Enter configuration mode
config-template	Configuration-template
<i>name</i>	Configuration-template name
create	Configuration-template for create action
delete	Configuration-template for delete action
type	Configuration-template type
vrf	Configuration-template for VRF
substitute	Configuration-template substitute
<i>match_replace</i>	string in match:replace format for substitution

Command Mode

- /exec

configure maintenance profile normal

[no] configure maintenance profile { normal-mode | maintenance-mode }

Syntax Description

no	(Optional) Negate a command or set its defaults
configure	Enter configuration mode
maintenance	maintenance profile mode
profile	maintenance profile
normal-mode	Normal mode profile
maintenance-mode	Maintenance mode profile

Command Mode

- /exec

configure private

configure private [sandbox]

Syntax Description

configure	Enter configuration mode
private	Prototype place holder for config session phase two
sandbox	(Optional) Used by the CLI sandbox

Command Mode

- /exec

configure profile

[no] configure profile <all_conf_profile_name> [type admin]

Syntax Description

no	(Optional) Negate a command or set its defaults
configure	Enter configuration mode
profile	Configure profile
<i>all_conf_profile_name</i>	Enter the name of the configure profile
type	(Optional) config profile type
admin	(Optional) config profile admin type

Command Mode

- /exec

configure replace

```
configure replace { <uri_local> | <uri_remote> [ source-interface <intf> | vrf <vrf-known-name> ] } [ verbose ] [ show-patch ] [ debug | stop-at-first-failure ]
```

Syntax Description

configure	Configure the box
replace	Perform a replace of the running-config
<i>uri_local</i>	Configuration file to use
<i>uri_remote</i>	Configuration file to use
source-interface	(Optional) Select source interface
<i>intf</i>	(Optional)
vrf	(Optional) Display per-VRF information
verbose	(Optional) Show the logs of operation
show-patch	(Optional) Show the patch to be applied
debug	(Optional) Skip errors and proceed with rollback
stop-at-first-failure	(Optional) Stop config-replace at the first error
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

configure session

configure session <s0>

Syntax Description

configure	Enter configuration mode
session	Configure the system in a session
s0	Enter the name of the session

Command Mode

- /exec

configure sync

configure sync

Syntax Description

configure	Enter configuration mode
sync	Configure the system in config-sync mode

Command Mode

- /exec

congestion-control dctcp ecn-threshold bytes

[no] congestion-control dctcp ecn-threshold <threshold> { bytes }

Syntax Description

no	(Optional) Negate a command or set its defaults
congestion-control	Congestion Control Protocol
dctcp	Data Center TCP
ecn-threshold	Explicit Congestion Notification - threshold
<i>threshold</i>	Threshold in bytes
bytes	Bytes

Command Mode

- /exec/configure/policy-map/type/uf/class

congestion-control ecn

[no] congestion-control ecn

Syntax Description

no	(Optional) Negate a command or set its defaults
congestion-control	Congestion Control Protocol
ecn	Enable ECN protocol

Command Mode

- /exec/configure/policy-map/type/uf/class

congestion-control random-detect

```
[no] congestion-control random-detect { [ threshold { burst-optimized | mesh-optimized } ] | {
minimum-threshold <min-thresh> [ packets | bytes | kbytes | mbytes ] maximum-threshold <max-thresh> [
packets1 | bytes1 | kbytes1 | mbytes1 ] drop-probability <drop-prob> } } { [ ecn ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
congestion-control	Congestion Control Protocol
random-detect	Enable WRED protocol
threshold	(Optional) Threshold
minimum-threshold	Minimum Threshold
maximum-threshold	Maximum Threshold
burst-optimized	(Optional) Threshold optimized for bursty traffic
mesh-optimized	(Optional) Threshold optimized for mesh traffic
drop-probability	Drop Probability at Maximum Threshold
<i>drop-prob</i>	Drop Probability Value
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo Bytes
mbytes	(Optional) Mega Bytes
packets1	(Optional) Packets
bytes1	(Optional) Bytes
kbytes1	(Optional) Kilo Bytes
mbytes1	(Optional) Mega Bytes
ecn	(Optional) Explicit Congestion Notification

Command Mode

- /exec/configure/policy-map/type/uf/class

congestion-control random-detect forward-nonecn

[no] congestion-control random-detect forward-nonecn

Syntax Description

no	(Optional) Negate the command
congestion-control	Congestion control protocol
random-detect	Enable WRED protocol
forward-nonecn	Forward non ECN capable traffic without WRED dropping

Command Mode

- /exec/configure

congestion-control random-detect global-buffer minimum-threshold maximum-threshold

[no] congestion-control random-detect global-buffer minimum-threshold { <min-thresh> [packets | bytes | kbytes | mbytes] } maximum-threshold { <max-thresh> [packets1 | bytes1 | kbytes1 | mbytes1] }

Syntax Description

no	(Optional) Negate the command
congestion-control	Congestion control protocol
random-detect	Enable WRED protocol
global-buffer	global buffer threshold
minimum-threshold	Specify minimum threshold for WRED
<i>min-thresh</i>	Minimum threshold value
maximum-threshold	Specify maximum threshold for WRED
<i>max-thresh</i>	Maximum threshold value
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
packets1	(Optional) Packets
bytes1	(Optional) Bytes
kbytes1	(Optional) Kilo Bytes
mbytes1	(Optional) Mega Bytes

Command Mode

- /exec/configure

congestion-control tail-drop

[no] congestion-control tail-drop [threshold { burst-optimized | mesh-optimized }]

Syntax Description

no	(Optional) Negate a command or set its defaults
congestion-control	Congestion Control Protocol
tail-drop	Enable Tail-Drop
threshold	(Optional) Threshold
burst-optimized	(Optional) Threshold optimized for bursty traffic
mesh-optimized	(Optional) Threshold optimized for mesh traffic

Command Mode

- /exec/configure/policy-map/type/uf/class

connect

[no] connect

Syntax Description

no	(Optional) Negate a command or set its defaults
connect	Connect to remote host

Command Mode

- /exec/configure/vmt-conn

continue

{ continue <value> } | { no continue [<value>] }

Syntax Description

no	Negate a command or set its defaults
continue	Continue on a different entry within the route-map
<i>value</i>	Route-map entry sequence number

Command Mode

- /exec/configure/route-map

contract-id

{ contract-id <s0> | no contract-id }

Syntax Description

no	Negate a command or set its defaults
contract-id	Service contract id of the customer
s0	Provide contract number (as specified in the service agreement)

Command Mode

- /exec/configure/callhome

control-plane

control-plane

Syntax Description

control-plane	Enter to control-plane sub-mode
---------------	---------------------------------

Command Mode

- /exec/configure

control vlan

[no] control vlan <vlan-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
control	ITD control vlan
vlan	control vlan
<i>vlan-id</i>	Control vlan id

Command Mode

- /exec/configure/itd-inout

control vlan

[no] control vlan <vlan-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
control	Configure PLB control vlan
vlan	control vlan
<i>vlan-id</i>	vlan id

Command Mode

- /exec/configure/plb-inout

controller-credentials username password 0

[no] controller-credentials username <user> password { 0 <clear> | 7 <encrypted> }

Syntax Description

no	(Optional) Negate a command or set its defaults
controller-credentials	NBM Controller login credentials
username	User ID
<i>user</i>	Enter user ID
password	Password
0	Password that follows should be in clear text
<i>clear</i>	Password in clear text
7	Password that follows should be encrypted text
<i>encrypted</i>	Encrypted password

Command Mode

- /exec/configure/nbm-controller

controller ip vrf

[no] controller ip <cntrl-ip> vrf { <vrf-name> | <vrf-known-name> }

Syntax Description

no	(Optional) Negate a command or set its defaults
controller	Controller
ip	IP Address
<i>cntrl-ip</i>	IP Address of Controller
vrf	vrf context
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name

Command Mode

- /exec/configure/nbm-controller

controller ipv4

```
[no] controller ipv4 <ipv4> [ port <tcpport> ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ security { none |
tls } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
controller	OpenFlow controller to use
ipv4	Controller ipv4 address (A.B.C.D)
<i>ipv4</i>	IP address (A.B.C.D)
port	(Optional) Controller TCP port (default is 6653)
<i>tcpport</i>	(Optional) TCP port number (default port is 6653)
vrf	(Optional) Controller VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
security	(Optional) Set security protocol
none	(Optional) Disable security protocol
tls	(Optional) Enable security protocol

Command Mode

- /exec/configure/openflow/switch

controller ipv4

```
[no] controller ipv4 <ipv4> [ port <tcpport> ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ security { none |
tls } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
controller	OpenFlow controller to use
ipv4	Controller ipv4 address (A.B.C.D)
<i>ipv4</i>	IP address (A.B.C.D)
port	(Optional) Controller TCP port (default is 6653)
<i>tcpport</i>	(Optional) TCP port number (default port is 6653)
vrf	(Optional) Controller VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
security	(Optional) Set security protocol
none	(Optional) Disable security protocol
tls	(Optional) Enable security protocol

Command Mode

- /exec/configure/openflow/switch/sub-switch

controller type l2 identifier

[no] controller type { l2-vxlan | vxlan } identifier <controller-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
controller	Controller command
type	Controller type
l2-vxlan	l2-vxlan
vxlan	vxlan
identifier	Controller identifier
<i>controller-id</i>	Controller id value

Command Mode

- /exec/configure

copp clear policy pps

copp clear policy pps

Syntax Description

copp	copp
clear	clear
policy	policy
pps	pps

Command Mode

- /exec/configure

copp copy profile prefix

copp copy profile <profile_type> { prefix | suffix } <user_string>

Syntax Description

copp	Control-Plane Policing
copy	Make a copy of the CoPP Profile
profile	CoPP Profile
<i>profile_type</i>	CoPP Profile Types
prefix	prefix for the copied policy
suffix	suffix for the copied policy
<i>user_string</i>	Enter prefix/suffix for the copied policy

Command Mode

- /exec

copp distributed-policing enable

[no] copp distributed-policing enable

Syntax Description

no	(Optional) Negate a command or set its defaults
copp	Control-Plane Policing
distributed-policing	distributed policer
enable	enable distributed policing

Command Mode

- /exec/configure

copp profile

[no] copp profile [<profile_type>]

Syntax Description

no	Negate a command or set its defaults
copp	Control-Plane Policing
profile	CoPP Profile
<i>profile_type</i>	(Optional) CoPP Profile Types

Command Mode

- /exec/configure

copp profile

copp profile <profile_type>

Syntax Description

copp	Control-Plane Policing
profile	CoPP Profile
<i>profile_type</i>	CoPP Profile Types

Command Mode

- /exec/configure

copp rate-limit disable

[no] copp rate-limit disable

Syntax Description

no	(Optional) Negate a command or set its defaults
copp	copp
rate-limit	rate-limit
disable	Disable rate-limit on CoPP queues

Command Mode

- /exec/configure

copy

```
copy { { <src_local> { <dest_remote> [ source-interface <intf> | vrf <vrf-known-name> ] } } [ use-kstack ]
| { <src_remote> { <dest_local> [ compact ] | running-config [ echo-commands ] [ stop-at-first-failure ] |
startup-config } } [ source-interface <intf> | vrf <vrf-known-name> ] [ use-kstack ] | { <src_core> {
<dest_remote> [ source-interface <intf> | vrf <vrf-known-name> ] } } [ use-kstack ] | { running-config-src {
<dest_remote> [ source-interface <intf> | vrf <vrf-known-name> ] } } [ use-kstack ] | { startup-config-src {
<dest_remote> [ source-interface <intf> | vrf <vrf-known-name> ] } } [ use-kstack ] }
```

Syntax Description

copy	Copy from one file to another
<i>src_local</i>	Select source filesystem
<i>src_core</i>	Select source filesystem
<i>dest_local</i>	Select destination filesystem
<i>dest_remote</i>	Select destination filesystem
<i>src_remote</i>	Select source filesystem
vrf	(Optional) Display per-VRF information
source-interface	(Optional) Select source interface
<i>intf</i>	(Optional)
<i>vrf-known-name</i>	(Optional) Known VRF name
compact	(Optional) Compacting NXOS NBI image using scp
use-kstack	(Optional) Use faster version of copy but with limited options
running-config	Copy from source to running configuration
running-config-src	Copy running configuration to destination
startup-config	Copy from source to startup configuration
startup-config-src	Copy startup configuration to destination
echo-commands	(Optional) Echo the commands before applying them (to correlate errors)
stop-at-first-failure	(Optional) Stop at first error

Command Mode

- /exec

Usage Guidelines



Note When a source or destination URI contains a reserved character such as '!' or '#', the reserved character must be entered as its percent-encoded ascii value, as described in RFC 3986. For example, the URI `!pa##word@example.com` must be entered as `%21pa%23%23word@example.com`. In this example, the reserved characters '!' (ascii 0x21) and '#' (ascii 0x23) are represented as '%21' and '%23'.



Note When the `terminal password password` command is entered prior to using the `copy` command, the `use-kstack` option is not supported and should not be used.

copy

```
copy { { <src_local> { <dest_local> | running-config [ echo-commands ] [ stop-at-first-failure ] | startup-config
| scheduled-config } } | { <src_core> <dest_local_core> } } | { running-config-src { startup-config [ fabric ] |
<dest_local_config> } } | { startup-config-src { running-config [ echo-commands ] [ stop-at-first-failure ] |
<dest_local_config> } } | { switch-profile-cfg <dest_local_config> } }
```

Syntax Description

copy	Copy from one file to another
<i>src_local</i>	Select source filesystem
<i>src_core</i>	Select source filesystem
<i>dest_local</i>	Select destination filesystem
<i>dest_local_core</i>	Select destination filesystem
<i>dest_local_config</i>	Select destination filesystem
running-config	Copy from source to running configuration
running-config-src	Copy running configuration to destination
startup-config	Copy from source to startup configuration
startup-config-src	Copy startup configuration to destination
scheduled-config	Schedule configuration at the specified source to be applied at next switch reload
switch-profile-cfg	Copy switch profile running configuration to destination
echo-commands	(Optional) Echo the commands before applying them (to correlate errors)
stop-at-first-failure	(Optional) Stop at first error
fabric	(Optional) Copy from source to fabric startup configuration

Command Mode

- /exec

Usage Guidelines



Note When a source or destination URI contains a reserved character such as '!' or '#', the reserved character must be entered as its percent-encoded ascii value, as described in RFC 3986. For example, the URI `!pa##word@example.com` must be entered as `%21pa%23%23word@example.com`. In this example, the reserved characters '!' (ascii 0x21) and '#' (ascii 0x23) are represented as '%21' and '%23'.

copy licenses

copy licenses <uri0>

Syntax Description

copy	Copy from one file to another
licenses	Backup license files
<i>uri0</i>	Specify URL (with .tar extension) for backing up license files

Command Mode

- /exec

copy recursive

```
copy <source> <destination> recursive [ vrf <vrf-known-name> ] [ use-kstack ]
```

Syntax Description

<code>copy</code>	Copy from one file to another
<code>recursive</code>	Recursively copy files and folders
<code>source</code>	Select source filesystem
<code>destination</code>	Select destination filesystem
<code>vrf</code>	(Optional) Display per-VRF information
<code>use-kstack</code>	(Optional) Use kstack version of copy
<code>vrf-known-name</code>	(Optional) Known VRF name

Command Mode

- /exec

Usage Guidelines



Note When a source or destination URI contains a reserved character such as '!' or '#', the reserved character must be entered as its percent-encoded ascii value, as described in RFC 3986. For example, the URI `!pa##word@example.com` must be entered as `%21pa%23%23word@example.com`. In this example, the reserved characters '!' (ascii 0x21) and '#' (ascii 0x23) are represented as '%21' and '%23'.

copy running vdc-all

```
copy { running-config-src { <dest_remote> [ source-interface <intf> | vrf <vrf-known-name> ] } |
startup-config-src { <dest_remote> [ source-interface <intf> | vrf <vrf-known-name> ] } } vdc-all [ use-kstack
]
```

Syntax Description

copy	Copy from one file to another
<i>dest_remote</i>	Select destination filesystem
vrf	(Optional) Display per-VRF information
<i>vrf-known-name</i>	(Optional) Known VRF name
source-interface	(Optional) Select source interface
<i>intf</i>	(Optional)
running-config-src	Copy running configuration to destination
startup-config-src	Copy startup configuration to destination
vdc-all	Perform copy for all vdc
use-kstack	(Optional) Use kstack version of copy

Command Mode

- /exec

Usage Guidelines



Note When a source or destination URI contains a reserved character such as '!' or '#', the reserved character must be entered as its percent-encoded ascii value, as described in RFC 3986. For example, the URI `!pa##word@example.com` must be entered as `%21pa%23%23word@example.com`. In this example, the reserved characters '!' (ascii 0x21) and '#' (ascii 0x23) are represented as '%21' and '%23'.

copy vdc-all

```
copy { running-config-src { startup-config | <dest_local_config> } | startup-config-src { running-config | <dest_local_config> } } vdc-all
```

Syntax Description

copy	Copy from one file to another
<i>dest_local_config</i>	Select destination filesystem
running-config-src	Copy running configuration to destination
startup-config	Copy from source to startup configuration
running-config	Copy from source to running configuration
startup-config-src	Copy startup configuration to destination
vdc-all	Perform copy for all vdc's

Command Mode

- /exec

Usage Guidelines



Note When a source or destination URI contains a reserved character such as '!' or '#', the reserved character must be entered as its percent-encoded ascii value, as described in RFC 3986. For example, the URI `!pa##word@example.com` must be entered as `%21pa%23%23word@example.com`. In this example, the reserved characters '!' (ascii 0x21) and '#' (ascii 0x23) are represented as '%21' and '%23'.

core-on-no-memory

[no] core-on-no-memory

Syntax Description

no	(Optional) Negate a command or set its defaults
core-on-no-memory	Generate core dump on memory allocation failure

Command Mode

- /exec/configure/router-ospf

core-on-no-memory

[no] core-on-no-memory

Syntax Description

no	(Optional) Negate a command or set its defaults
core-on-no-memory	Generate core dump on memory allocation failure

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

cost

{ cost <cost> } | { no cost [<cost>] }

Syntax Description

no	Negate a command or set its defaults
cost	Cost associated with interface
<i>cost</i>	Cost value

Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

count

| count

Syntax Description

	Pipe command output to filter
count	Count number of lines

Command Mode

- /output

counter name value op

counter name <counter-name> value <counter-value> op <op-val>

Syntax Description

counter	Specify the name of the counter
name	Specify the name of the counter
<i>counter-name</i>	Name of the counter
value	Specify the value to be applied to the counter
<i>counter-value</i>	Enter the value
op	Specify the operator to be applied
<i>op-val</i>	Enter the value of the operator

Command Mode

- /exec

cpu threshold

[no] cpu threshold [rising <risingth> falling <fallingth> interval <seconds>]

Syntax Description

no	Negate a command or set its defaults
cpu	CPU resource
threshold	Threshold settings
rising	(Optional) Rising threshold setting
<i>risingth</i>	(Optional) Rising threshold in percentage
falling	(Optional) Falling threshold setting
<i>fallingth</i>	(Optional) Falling threshold in percentage
interval	(Optional) Observation interval setting
<i>seconds</i>	(Optional) Observation interval in seconds

Command Mode

- /exec/configure/onep

cpu threshold rising falling interval

cpu threshold rising <risingth> falling <fallingth> interval <seconds>

Syntax Description

cpu	CPU resource
threshold	Threshold settings
rising	Rising threshold setting
<i>risingth</i>	Rising threshold in percentage
falling	Falling threshold setting
<i>fallingth</i>	Falling threshold in percentage
interval	Observation interval setting
<i>seconds</i>	Observation interval in seconds

Command Mode

- /exec/configure/onep

crypto ca authenticate

[no] crypto ca authenticate <s0> [accept]

Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
authenticate	Authenticate the certificate authority certificate
s0	trustpoint label
accept	(Optional) accept the certificate automatically

Command Mode

- /exec/configure

crypto ca crl request

[no] crypto ca crl request <s0> <uri0>

Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
crl	import certificate revocation list
request	import certificate revocation list
s0	trustpoint label
uri0	Specify source file name

Command Mode

- /exec/configure

crypto ca enroll

[no] crypto ca enroll <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
enroll	Create certificate request
s0	trustpoint label

Command Mode

- /exec/configure

crypto ca export pkcs12

[no] crypto ca export <s0> pkcs12 <uri0> <s1>

Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
export	export rsa private key and certificates in pkcs#12
s0	trustpoint label
pkcs12	destination file url
uri0	Specify destination file name
s1	passphrase to encrypt the private key

Command Mode

- /exec/configure

crypto ca import certificate

[no] crypto ca import <s0> certificate

Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
import	import the certificate or key
s0	trustpoint label
certificate	import the certificate

Command Mode

- /exec/configure

crypto ca import pkcs12

```
crypto ca import <s0> pkcs12 <uri0> <s1>
```

Syntax Description

crypto	Set crypto settings
ca	Configure certificate authority related information
import	import the certificate or key
<i>s0</i>	trustpoint label
pkcs12	source file url
<i>uri0</i>	source file url
<i>s1</i>	passphrase to decrypt the private key

Command Mode

- /exec/configure

crypto ca lookup

[no] crypto ca lookup { remote | local | both }

Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
lookup	Choose the certstore for authentication
remote	Use remote certstore
local	Use local certstore
both	Use both local and remote certstore

Command Mode

- /exec/configure

crypto ca remote ldap

```
[no] crypto ca remote ldap { server-group <s0> | [ crl-refresh-time <i0> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
remote	Use ca from remote certstore
ldap	Ldap certstore
crl-refresh-time	(Optional) Configure refresh-time to fetch crl from remote certstore
<i>i0</i>	(Optional) Refresh time value in hours. A value of 0 will now run the refresh routine once.
server-group	Ldap server group
<i>s0</i>	Ldap server group name

Command Mode

- /exec/configure

crypto ca test verify

[no] crypto ca test verify <uri0>

Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
test	certificate tests
verify	verify the certificate
<i>uri0</i>	Specify certificate file name

Command Mode

- /exec/configure

crypto ca trustpoint

[no] crypto ca trustpoint <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
ca	Configure certificate authority related information
trustpoint	Configure trustpoint certificate authority
s0	trustpoint label

Command Mode

- /exec/configure

crypto cert ssh-authorize

[no] crypto cert ssh-authorize [<s0> map <s1> [<s2>] | default map <s3>]

Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Configure crypto settings
cert	Configure certificate mapping filter settings
ssh-authorize	Configure mapping filter for ssh
s0	(Optional) Issuer name of the certificate
map	(Optional) Mapping filter to be applied
s1	(Optional) Name of the mapping filter which is already configured
s2	(Optional) Name of the mapping filter which is already configured
default	(Optional) Default map for ssh authorization
s3	(Optional) Name of the default mapping filter which is already configured

Command Mode

- /exec/configure

crypto certificatemap mapname

[no] crypto certificatemap mapname <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
certificatemap	Configure certificatemap filters
mapname	Create a new filter map
s0	Name of the filter map

Command Mode

- /exec/configure

crypto key generate rsa

```
[no] crypto key generate rsa [ { [ exportable ] [ modulus <i0> ] | [ label <s0> ] [ [ exportable ] [ modulus1 <i1> ] ] | modulus2 <i2> } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
key	Configure key pair related information
generate	Configure key pair generation related information
rsa	Configure rsa key pair generation related information
exportable	(Optional) key-pair is exportable
modulus	(Optional) key-pair size
<i>i0</i>	(Optional) key-pair size
label	(Optional) key-pair label
<i>s0</i>	(Optional) key-pair label
exportable	(Optional) key-pair is exportable
modulus1	(Optional) key-pair size
<i>i1</i>	(Optional) key-pair size
modulus2	(Optional) key-pair size
<i>i2</i>	(Optional) key-pair size

Command Mode

- /exec/configure

crypto key param rsa label modulus

[no] crypto key param rsa label <s0> modulus <i0> [exportable]

Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
key	Configure key pair related information
param	Configure key pair related information
rsa	Configure rsa key pair related information
label	key-pair label
s0	key-pair label
modulus	key-pair size
i0	key-pair size
exportable	(Optional) key-pair is exportable

Command Mode

- /exec/configure

crypto key zeroize rsa

[no] crypto key zeroize rsa <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
crypto	Set crypto settings
key	Configure key pair related information
zeroize	Delete key-pair
rsa	Delete rsa key-pair
s0	key-pair label

Command Mode

- /exec/configure

cryptographic-algorithm

[no] cryptographic-algorithm <algo>

Syntax Description

no	(Optional) Negate a command or set its defaults
cryptographic-algorithm	Set cryptographic-algorithm to be used
<i>algo</i>	Cryptographic-algorithm

Command Mode

- /exec/configure/keychain-key

customer-id

{ customer-id <s0> | no customer-id }

Syntax Description

no	Negate a command or set its defaults
customer-id	customer id
s0	Provide customer id (as specified in the service agreement)

Command Mode

- /exec/configure/callhome

cut

| cut { -b <bytes> | -c <chars> | -f <fields> | -d <delim> | -s | --help } +

Syntax Description

	Pipe command output to filter
cut	Print selected parts of lines.
-b	output only these bytes
-c	output only these characters
-d	specify other field delimiter (default is TAB).
-f	output only these fields also print any line that contains no delimiter character, unless the -s option is specified
-s	do not print lines not containing delimiters
<i>bytes</i>	{n n- n-m -m} N-th byte, N to end of line, N to M, start of line to N
<i>chars</i>	{n n- n-m -m} N-th char, N to end of line, N to M, start of line to N
<i>fields</i>	{n n- n-m -m} N-th field, N to end of line, N to M, start of line to N
<i>delim</i>	field separator char, TAB is default, use ' ' for space
--help	print help of underlying unix command

Command Mode

- /output



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dampen-igp-metric

dampen-igp-metric <sec> | no dampen-igp-metric

Syntax Description

no	Negate a command or set its defaults
dampen-igp-metric	Dampen IGP metric-related changes
<i>sec</i>	Time interval in seconds

Command Mode

- /exec/configure/router-bgp/router-bgp-af

dampening

```
[no] dampening [ { <half-life> <reuse-limit> <suppress-limit> <max-suppress-time> } | { route-map
<rmap-name> } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
dampening	Configure route flap dampening
<i>half-life</i>	(Optional) Decay half life
<i>reuse-limit</i>	(Optional) Value to start reusing a route
<i>suppress-limit</i>	(Optional) Value to start suppressing a route
<i>max-suppress-time</i>	(Optional) Maximum suppress time for stable route
route-map	(Optional) Apply route-map to specify dampening criteria
<i>rmap-name</i>	(Optional) Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-ipv4
/exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-af-link-state
/exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

dampening

[no] dampening [{ <half-life> <reuse-limit> <suppress-limit> <max-suppress-time> } | { route-map <rmap-name> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
dampening	Configure route flap dampening
<i>half-life</i>	(Optional) Decay half life
<i>reuse-limit</i>	(Optional) Value to start reusing a route
<i>suppress-limit</i>	(Optional) Value to start suppressing a route
<i>max-suppress-time</i>	(Optional) Maximum suppress time for stable route
route-map	(Optional) Apply route-map to specify dampening criteria
<i>rmap-name</i>	(Optional) Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4-mdt /exec/configure/router-bgp/router-bgp-af-l2vpn-vpls

dampening

```
[no] dampening | dampening [ { <half-life> [ { <reuse> <suppress> <max-suppress> } ] restart [ <penalty> ] ] ] }
```

Syntax Description

<code>no</code>	Negate a command or set its defaults
<code>dampening</code>	configures dampening feature
<i>half-life</i>	(Optional) half-life time for the penalty
<i>reuse</i>	(Optional) Value to start reusing an interface
<i>suppress</i>	(Optional) Value to start suppressing an interface
<i>max-suppress</i>	(Optional) Maximum duration to suppress an interface
<code>restart</code>	(Optional) Enable restart penalty
<i>penalty</i>	(Optional) Penalty applied at restart

Command Mode

- /exec/configure/if-igp

dampenpenalty

dampenpenalty [<penalty>]

Syntax Description

dampenpenalty	charge penalty
<i>penalty</i>	(Optional) Penalty to be charged

Command Mode

- /exec/configure/if-igp

data-pattern

```
{ { no | default } data-pattern | data-pattern <hex-pattern> }
```

Syntax Description

no	
default	Set a command to its defaults
data-pattern	Data Pattern
<i>hex-pattern</i>	Data Pattern in Hex

Command Mode

- /exec/configure/ip-sla/udp

data-pattern pad

```
{ data-pattern pad <pad-val> }
```

Syntax Description

<code>data-pattern</code>	Configure NGOAM ping payload
<code>pad</code>	Configure NGOAM payload test pattern pad
<i>pad-val</i>	Configure NGOAM payload test pad value

Command Mode

- /exec/configure/configngoamconnectcheck

data-source

{ data-source <type> } | { no data-source [<type>] }

Syntax Description

no	Negate a command or set its defaults
data-source	Specify the data source
<i>type</i>	

Command Mode

- /exec/configure/telemetry/sensor-group

database-mapping

```
{ [ no ] database-mapping { <eid-prefix> | <eid-prefix6> } { redistribute | { { <locator> | <locator6> } priority <priority> weight <weight> } } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
database-mapping	Configure EID-prefix and locator-set for dynamic-EID
<i>eid-prefix</i>	IP EID-prefix for RLOC static mapping
<i>locator</i>	IP address of LISP-VM routers
priority	Configures which Locators from a set are preferred
<i>priority</i>	Lower priority Locator takes preference
weight	Traffic load-spreading among Locators
<i>weight</i>	Specified in a percentage from 0 to 100
redistribute	Used for redistributing into routing protocols

Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

databits

[no] databits <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
databits	Set number of databits per character
<i>i0</i>	Number of data bits

Command Mode

- /exec/configure/com1

databits

[no] databits <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
databits	Set number of databits per character
<i>i0</i>	Number of data bits

Command Mode

- /exec/configure/console

datapath-id

datapath-id <datapathid-val> | no datapath-id

Syntax Description

no	Negate a command or set its defaults
datapath-id	Datapath ID
<i>datapathid-val</i>	64-bit hex value [0x1-0xffffffffffffff]

Command Mode

- /exec/configure/openflow/switch

datapath-id

datapath-id <datapathid-val> | no datapath-id

Syntax Description

no	Negate a command or set its defaults
datapath-id	Datapath ID
<i>datapathid-val</i>	64-bit hex value [0x1-0xffffffffffff]

Command Mode

- /exec/configure/openflow/switch/sub-switch

datapath transport mts

[no] datapath transport mts

Syntax Description

no	(Optional) Negate a command or set its defaults
datapath	One Platform datapath
transport	transport for datapath
mts	mts

Command Mode

- /exec/configure/onep

db-jid

[no] db-jid <jid> [key-type <key-type>]

Syntax Description

no	(Optional) Negate a command or set its defaults
db-jid	Jabber ID of database
<i>jid</i>	Enter Jabber ID of database
key-type	(Optional) Query key type for this database
<i>key-type</i>	(Optional)

Command Mode

- /exec/configure/fabric-db/server-xmpp

db-security user password

```
[no] db-security user <user> password { 0 <clear> | 7 <encrypted> | <password> } [ shared-secret { 10 <clear> | 7 <encrypted> | <secret> } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
db-security	Database Security
user	User ID
<i>user</i>	Enter user ID
password	Password
0	Password that follows should be in clear text
<i>clear</i>	Password in clear text
7	Password that follows should be in encrypted text
<i>encrypted</i>	Encrypted password
<i>password</i>	Enter password in clear text
shared-secret	(Optional) Shared-secret
10	(Optional) Indicates that password that follows should be in clear text
<i>clear</i>	(Optional) Password in clear text
7	(Optional) Password that follows should be in encrypted text
<i>encrypted</i>	(Optional) Encrypted password
<i>secret</i>	(Optional) Enter shared-secret in clear text

Command Mode

- /exec/configure/fabric-db/server-ldap

db-table

[no] db-table <tablename> [key-type <key-type>]

Syntax Description

no	(Optional) Negate a command or set its defaults
db-table	Table name to search
<i>tablename</i>	Enter table name to search
key-type	(Optional) Query key type for this table
<i>key-type</i>	(Optional)

Command Mode

- /exec/configure/fabric-db/server-ldap

dead-interval

```
{ { dead-interval <interval> } | { no dead-interval [ <interval> ] } }
```

Syntax Description

no	Negate a command or set its defaults
dead-interval	Dead interval
<i>interval</i>	(seconds)

Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

dead-interval

```
{ { dead-interval <interval> } | { no dead-interval [ <interval> ] } }
```

Syntax Description

no	Negate a command or set its defaults
dead-interval	Dead interval
<i>interval</i>	(seconds)

Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

dead-interval

```
{ { dead-interval <interval> } | { no dead-interval [ <interval> ] } }
```

Syntax Description

no	Negate a command or set its defaults
dead-interval	Dead interval
<i>interval</i>	(seconds)

Command Mode

- /exec/configure/router-ospf3/router-ospf3-vlink /exec/configure/router-ospf3/vrf/router-ospf3-vlink

deadtime

[no] deadtime <*i0*>

Syntax Description

no	(Optional) Negate a command or set its defaults
deadtime	duration for which non-reachable server is skipped
<i>i0</i>	Length of time, in minutes

Command Mode

- /exec/configure/radius

deadtime

[no] deadtime <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
deadtime	duration for which non-reachable server is skipped
<i>i0</i>	Length of time, in minutes

Command Mode

- /exec/configure/ldap

deadtime

[no] deadtime <*i0*>

Syntax Description

no	(Optional) Negate a command or set its defaults
deadtime	duration for which non-reachable server is skipped
<i>i0</i>	Length of time, in minutes

Command Mode

- /exec/configure/tacacs+

dec

dec <expr>

Syntax Description

dec	calculator with results in decimal format
<i>expr</i>	the expression to compute (integer arithmetics)

Command Mode

- /exec

default-information originate

[no] default-information originate

Syntax Description

no	(Optional) Negate a command or set its defaults
default-information	Control distribution of default information
originate	Distribute a default route

Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-ipv6-label
/exec/configure/router-bgp/router-bgp-af-ipv4-label

default-information originate

[no] default-information originate [always] [route-map <policy-name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
default-information	Control distribution of default route
originate	Distribute a default route
always	(Optional) Always advertise default route
route-map	(Optional) Policy to control distribution of default route
<i>policy-name</i>	(Optional) Route-map name

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

default-information originate

[no] default-information originate [always] [route-map <map>]

Syntax Description

no	(Optional) Negate a command or set its defaults
default-information	Control origination of a default route
originate	Originate a default route
always	(Optional) Always advertise default route
route-map	(Optional) Use a route-map for default route metrics
<i>map</i>	(Optional) Route-map name

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

default-information originate

[no] default-information originate [always] [route-map <map-name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
default-information	Control origination of a default route
originate	Originate a default route
always	(Optional) Always advertise default route
route-map	(Optional) Route-map to announce default routes
<i>map-name</i>	(Optional) A 'routing-rules' route-map name

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-common

default-information originate

[no] default-information originate [always] [route-map <map-name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
default-information	RIP control distribution of default route
originate	RIP distribute a default route
always	(Optional) RIP always advertise default route
route-map	(Optional) Policy to constrain redistribution
<i>map-name</i>	(Optional) Route-map name

Command Mode

- /exec/configure/router-rip/router-rip-af-common /exec/configure/router-rip/router-rip-vrf-af-common

default-information originate

[no] default-information originate [always] [route-map <policy-name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
default-information	Control distribution of default route
originate	Distribute a default route
always	(Optional) Always advertise default route
route-map	(Optional) Policy to control distribution of default route
<i>policy-name</i>	(Optional) Route-map name

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

default-information originate always rd route-target

```
[no] default-information originate always rd { <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } route-target
{ <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
default-information	Control distribution of default information
originate	Distribute a default route
always	Always advertise default route
rd	VPN Route Distinguisher
<i>ext-comm-rd-aa4nn2</i>	VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	VPN route distinguisher in aa:nn format
route-target	Specify Target VPN Extended Communities
<i>ext-comm-rt-aa4nn2</i>	RT extcommunity in aa4:nn or ip:nn format
<i>ext-comm-rt-aa2nn4</i>	RT extcommunity in aa:nn format

Command Mode

- /exec/configure/router-bgp/router-bgp-af-vpnv4 /exec/configure/router-bgp/router-bgp-af-vpnv6

default-metric

[no] default-metric <metric>

Syntax Description

no	(Optional) Negate a command or set its defaults
default-metric	Set metric of redistributed routes
<i>metric</i>	Default Metric

Command Mode

- /exec/configure/router-bgp/router-bgp-af

default-metric

{ default-metric <cost> } | { no default-metric [<cost>] }

Syntax Description

no	Negate a command or set its defaults
default-metric	Specify default metric for redistributed routes
<i>cost</i>	Metric value

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

default-metric

```
{ { default-metric <bw> <delay> <rel> <load> <mtu> } | { no default-metric [ <bw> <delay> <rel> <load> <mtu> ] } }
```

Syntax Description

<code>no</code>	Negate a command or set its defaults
<code>default-metric</code>	Set metric of redistributed routes
<code>bw</code>	Bandwidth in Kbits per second
<code>delay</code>	Delay metric
<code>rel</code>	Reliability metric where 255 is 100% reliable
<code>load</code>	Effective bandwidth metric (Loading) where 255 is 100% loaded
<code>mtu</code>	Maximum Transmission Unit metric of the path

Command Mode

- `/exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common`

default-metric

default-metric <metric> | no default-metric [<metric>]

Syntax Description

no	Negate a command or set its defaults
default-metric	RIP default metric
<i>metric</i>	RIP metric value

Command Mode

- /exec/configure/router-rip/router-rip-af-common /exec/configure/router-rip/router-rip-vrf-af-common

default-metric

{ default-metric <cost> } | { no default-metric [<cost>] }

Syntax Description

no	Negate a command or set its defaults
default-metric	Specify default metric for redistributed routes
<i>cost</i>	Metric value

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

default-miss

default-miss { continue-drop | continue-normal | continue-controller | drop | normal | controller } | no default-miss

Syntax Description

no	Negate a command or set its defaults
default-miss	Set continue-drop/continue-normal/continue-controller/drop/normal/controller flow action
continue-drop	cascade drop to next table
continue-normal	cascade normal to next table
continue-controller	cascade punt to next table
drop	drop packet
normal	forward to normal dataplane
controller	punt to controller

Command Mode

- /exec/configure/openflow/switch

default-originate

[no | default] default-originate [route-map <rmap-name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
default-originate	Originate a default toward this peer
route-map	(Optional) Route-map to specify criteria for originating default
<i>rmap-name</i>	(Optional) Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

default echo revision

```
default echo { revision | vendor-extension }
```

Syntax Description

default	Set a command to its defaults
echo	Echo Request attributes
revision	Echo packet default revision
vendor-extension	Send Vendor Extension TLV with echo Req

Command Mode

- /exec/configure/mpls-oam

define

[no] define <paramname> [<paramtype>] [<paramdesc>]

Syntax Description

no	(Optional) Negate a command or set its defaults
define	Define a parameter
<i>paramname</i>	Enter the name of the parameter
<i>paramtype</i>	(Optional) param type
<i>paramdesc</i>	(Optional) Enter the parameter description

Command Mode

- /exec/configure/param-list

delay-restore time

[no] delay-restore time <sec>

Syntax Description

no	(Optional) Negate a command or set its defaults
delay-restore	delay-restore
time	time
<i>sec</i>	time in seconds

Command Mode

- /exec/configure/config-evpn-msite-bgw

delay

delay <delay_val> | no delay [<delay_val>]

Syntax Description

no	Negate a command or set its defaults
delay	Specify interface throughput delay
<i>delay_val</i>	Throughput delay (tens of microseconds)

Command Mode

- /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p /exec/configure/if-port-channel-sub

delay

delay <delay_val> | no delay [<delay_val>]

Syntax Description

no	Negate a command or set its defaults
delay	Specify interface throughput delay
<i>delay_val</i>	Throughput delay (tens of microseconds)

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel /exec/configure/if-ethernet-all /exec/configure/if-ethernet-p2p /exec/configure/if-remote-ethernet-sub /exec/configure/if-port-channel-range

delay

delay <microseconds> | no delay

Syntax Description

no	Negate a command or set its defaults
delay	Specify interface throughput delay
<i>microseconds</i>	Throughput delay (tens of microseconds)

Command Mode

- /exec/configure/if-vlan-common

delay peer-link

delay peer-link <time> | no delay peer-link

Syntax Description

no	Negate a command or set its defaults
delay	Peer-link bringup delay
peer-link	Delay peer-link bringup
<i>time</i>	Delay in bringing up the peer-link (in seconds)

Command Mode

- /exec/configure/vpc-domain

delay restore

delay restore <time-out> | no delay restore

Syntax Description

no	Negate a command or set its defaults
delay	Initialization delay
restore	Delay after restoring peer-link
<i>time-out</i>	Delay in bringing up the vPC links (in seconds)

Command Mode

- /exec/configure/vpc-domain

delay restore interface-vlan

delay restore interface-vlan <time-out> | no delay restore interface-vlan

Syntax Description

no	Negate a command or set its defaults
delay	Initialization delay
restore	Delay after restoring peer-link
interface-vlan	Delay in bringing-up interface-vlan
<i>time-out</i>	Delay in bringing up the interface-vlan (in seconds)

Command Mode

- /exec/configure/vpc-domain

delay restore orphan-port

delay restore orphan-port <delay_time> | no delay restore orphan-port

Syntax Description

no	Negate a command or set its defaults
delay	Initialization delay
restore	Delay after restoring peer-link
orphan-port	Configure vPC orphan-port delay bring-up timer
<i>delay_time</i>	Specify delay time in seconds

Command Mode

- /exec/configure/vpc-domain

delay up

delay { { up <up_delay> [down <down_delay>] } | { down <down_delay> [up <up_delay>] } } | no delay

Syntax Description

no	Negate a command or set its defaults
delay	Tracking delay
up	Delay up change notification
<i>up_delay</i>	Seconds to delay
down	(Optional) Delay down change notification
<i>down_delay</i>	(Optional) Seconds to delay

Command Mode

- /exec/configure/track /exec/configure/tr-list-bool /exec/configure/tr-list-thrp /exec/configure/tr-list-thrw

delete

delete { <uri0> | <uri1> | <uri2> } [no-prompt]

Syntax Description

delete	delete a file or directory
<i>uri0</i>	Delete a file or directory
<i>uri1</i>	Delete a file or directory on expansion flash
<i>uri2</i>	Directory or filename on logflash
no-prompt	(Optional) Do not prompt for multiple deletion of files

Command Mode

- /exec

delete ca-certificate

delete ca-certificate

Syntax Description

delete	Delete the certificates
ca-certificate	Delete the ca certificates

Command Mode

- /exec/configure/trustpoint

delete certificate

delete certificate [force]

Syntax Description

delete	Delete the certificates
certificate	Delete the identity certificate
force	(Optional) Force delete the identity certificate

Command Mode

- /exec/configure/trustpoint

delete crl

delete crl

Syntax Description

delete	Delete the certificates
crl	Delete the CRL

Command Mode

- /exec/configure/trustpoint

demand-circuit

[no] demand-circuit

Syntax Description

no	(Optional) Negate a command or set its defaults
demand-circuit	OSPF Demand circuit

Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

description

description <describe> | no description

Syntax Description

no	Negate a command or set its defaults
description	Description for the BMP server
<i>describe</i>	Upto 80 characters describing this server

Command Mode

- /exec/configure/router-bgp/router-bgp-bmp-server

description

description <describe> | { no | default } description [<describe>]

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
description	Neighbor specific description
<i>describe</i>	Upto 80 characters describing this neighbor

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

description

description <desc_line> | no description [<desc_line>]

Syntax Description

no	Negate a command or set its defaults
description	Enter description of maximum 254 characters
<i>desc_line</i>	Description of maximum 254 characters

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-port-channel /exec/configure/if-eth-port-channel /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p /exec/configure/if-port-channel-sub /exec/configure/if-loopback /exec/configure/if-ethernet-all /exec/configure/if-ethernet-p2p /exec/configure/if-remote-ethernet-sub /exec/configure/if-port-channel-range

description

description <desc_line> | no description [<desc_line>]

Syntax Description

no	Negate a command or set its defaults
description	Enter description of maximum 254 characters
<i>desc_line</i>	Description of maximum 254 characters

Command Mode

- /exec/configure/if-mgmt-ether

description

description <desc_line> | no description [<desc_line>]

Syntax Description

no	Negate a command or set its defaults
description	Enter description of maximum 254 characters
<i>desc_line</i>	Description of maximum 254 characters

Command Mode

- /exec/configure/if-nve

description

description <desc_line> | no description [<desc_line>]

Syntax Description

no	Negate a command or set its defaults
description	Enter description of maximum 80 characters
<i>desc_line</i>	Description of maximum 80 characters

Command Mode

- /exec/configure/if-overlay /exec/configure/if-te /exec/configure/if-nve

description

description <desc_line> | no description

Syntax Description

no	Negate a command or set its defaults
description	Interface specific description
<i>desc_line</i>	Up to 255 characters describing this interface

Command Mode

- /exec/configure/if-vlan-common

description

```
{ [ no ] description <descrip-string> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
description	Provide a description string for the LISP site
<i>descrip-string</i>	Description string

Command Mode

- /exec/configure/lisp-site /exec/configure/vrf/lisp-site

description

{ description <descr> } | { no description }

Syntax Description

description	Configure description of the profile
<i>descr</i>	Description of maximum 64 characters

Command Mode

- /exec/configure/configngoamprofile

description

description <line> | no description

Syntax Description

no	Negate a command or set its defaults
description	Add a description for the role
<i>line</i>	Enter the description string(can include spaces)

Command Mode

- /exec/configure/role

description

description <desc_line> | no description [<desc_line>]

Syntax Description

no	Negate a command or set its defaults
description	Enter description of maximum 254 characters
<i>desc_line</i>	Description of maximum 254 characters

Command Mode

- /exec/configure/if-any-tunnel

description

{ description <desc-str> | no description [<desc-str>] }

Syntax Description

no	Negate a command or set its defaults
description	Class-Map description
<i>desc-str</i>	Description of this class-map (up to 200 characters)

Command Mode

- /exec/configure/class-map

description

[no] description <desc-str>

Syntax Description

no	(Optional) Negate a command or set its defaults
description	Class-Map description
<i>desc-str</i>	Description of this class-map (up to 200 characters)

Command Mode

- /exec/configure/class-map/type/queuing

description

{ description <desc-str> | no description [<desc-str>] }

Syntax Description

no	Negate a command or set its defaults
description	Table-Map description
<i>desc-str</i>	Description of this table-map (up to 200 characters)

Command Mode

- /exec/configure/table-map

description

```
{ description <desc-str> | no description [ <desc-str> ] }
```

Syntax Description

no	Negate a command or set its defaults
description	Policy-Map description
<i>desc-str</i>	Description of this policy-map (up to 200 characters)

Command Mode

- /exec/configure/policy-map

description

{ description <desc-str> | no description [<desc-str>] }

Syntax Description

no	Negate a command or set its defaults
description	Policy-Map description
<i>desc-str</i>	Description of this policy-map (up to 200 characters)

Command Mode

- /exec/configure/policy-map/type/queuing

description

```
{ [ no ] description <text> }
```

Syntax Description

description	description for this profile
<i>text</i>	description

Command Mode

- /exec/configure/dot1x-cred

description

[no] description [<desc>] | description <desc>

Syntax Description

no	Negate a command or set its defaults
description	Group description
<i>desc</i>	(Optional) Up to 80 characters describing this group

Command Mode

- /exec/configure/if-eth-any/vrrpv3

description

{ [no] description <line> | no description }

Syntax Description

description	Provide a description for this Flow Record
<i>line</i>	Record description string (63 characters maximum)

Command Mode

- /exec/configure/nfm-record

description

{ [no] description <line> | no description }

Syntax Description

description	Provide a description for this Flow Monitor
<i>line</i>	Monitor description string (63 characters maximum)

Command Mode

- /exec/configure/nfm-monitor

description

{ [no] description <line> | no description }

Syntax Description

description	Provide a description for this Flow Exporter
<i>line</i>	Monitor description string (63 characters maximum)

Command Mode

- /exec/configure/nfm-exporter

description

description [port-profile] <desc_line> | no description [port-profile] [<desc_line>]

Syntax Description

no	Negate a command or set its defaults
description	Enter port-profile description of maximum 80 characters
port-profile	(Optional) Hack for conf-sync
<i>desc_line</i>	Enter port-profile description of maximum 80 characters

Command Mode

- /exec/configure/port-profile

description

{ description <desc-str> | no description [<desc-str>] }

Syntax Description

no	Negate a command or set its defaults
description	Class-Map description
<i>desc-str</i>	Description of this class-map (up to 200 characters)

Command Mode

- /exec/configure/class-map/type/uf

description

{ description <desc-str> | no description [<desc-str>] }

Syntax Description

no	Negate a command or set its defaults
description	Policy-Map description
<i>desc-str</i>	Description of this policy-map (up to 200 characters)

Command Mode

- /exec/configure/policy-map/type/uf

description

{ description <line> } | { no description }

Syntax Description

no	Negate a command or set its defaults
description	Description of the VRF
<i>line</i>	VRF description string

Command Mode

- /exec/configure/vrf

description

{ description <line> | no description }

Syntax Description

no	Negate a command or set its defaults
description	Description of the route-map
<i>line</i>	Route-map description string

Command Mode

- /exec/configure/route-map

description

{ description <description_text> | no description [<description_text>] }

Syntax Description

no	Negate a command or set its defaults
description	Virtual service description
<i>description_text</i>	Description of this virtual service

Command Mode

- /exec/configure/virt-serv

description

[no] description <description>

Syntax Description

no	(Optional) Negate a command or set its defaults
description	Configure description for the policy
<i>description</i>	Description for the policy

Command Mode

- /exec/configure/event-manager-applet

description

[no] description

Syntax Description

no	Negate a command or set its defaults
description	Configure description for the policy

Command Mode

- /exec/configure/event-manager-applet

description description

[no] description | description <desc>

Syntax Description

no	(Optional) Negate a command or set its defaults
description	Pathway description
<i>desc</i>	Up to 80 characters describing this pathway

Command Mode

- /exec/configure/if-eth-any/vrrs

dest-ipaddr

```
{ { no | default } dest-ipaddr | dest-ipaddr { <ip-address> | <hostname> } }
```

Syntax Description

<code>no</code>	Negate a command or set its defaults
<code>default</code>	Set a command to its defaults
<code>dest-ipaddr</code>	Destination ip address
<i>ip-address</i>	IP address, broadcast disallowed
<i>hostname</i>	IP Hostname, broadcast disallowed

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp

dest-port

{ { no | default } dest-port | dest-port <port> }

Syntax Description

no	
default	Set a command to its defaults
dest-port	Destination port
<i>port</i>	udp port number

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp

dest

```
{ dest { { ip { <numeric10> | <numeric11> | unknown } } | { mac <dmac> <dot1qid> [ <intfid> ] } } }
```

Syntax Description

dest	destination node
ip	ip address
<i>numeric10</i>	Ipv4 address of remote host / VTEP
unknown	Peer vtep ip is unknown, Applicable only for channel Nv03
mac	Mac
<i>dmac</i>	Destination mac address
<i>dot1qid</i>	Encapsulation dot1q/bd on which the mac is learnt
<i>intfid</i>	(Optional) Name of the interface for ngoam ping on which dot1q is configured

Command Mode

- /exec/configure/configngoamconnectcheck

destination-group

[no] destination-group <dgrp-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-group	Create destination group
<i>dgrp-id</i>	Identifier

Command Mode

- /exec/configure/telemetry

destination-profile

[no] destination-profile

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Specify the default destination profile

Command Mode

- /exec/configure/telemetry

destination-profile

[no] destination-profile <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
s0	User defined destination profile name

Command Mode

- /exec/configure/callhome

destination-profile CiscoTAC-1 alert-group

[no] destination-profile CiscoTAC-1 alert-group { All | Configuration | Diagnostic | EEM | Cisco-TAC | Environmental | Inventory | License | Linecard-Hardware | Supervisor-Hardware | Syslog-group-port | System | Test }

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
CiscoTAC-1	Configure destination profile for XML message
alert-group	Add alert group
All	This alert group consists of all of the callhome messages
Cisco-TAC	Events which are meant for Cisco TAC only
Environmental	Power,fan,temperature related events
Inventory	Inventory status events
License	Events related to licensing
Linecard-Hardware	Linecard related events
Supervisor-Hardware	Supervisor related events
Syslog-group-port	Events related to syslog messages filed by port manager
System	Software related events
Test	User generated test events
Configuration	Events related to Configuration
Diagnostic	Events related to Diagnostic
EEM	EEM events

Command Mode

- /exec/configure/callhome

destination-profile CiscoTAC-1 email-addr

[no] destination-profile CiscoTAC-1 email-addr <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
CiscoTAC-1	Configure destination profile for XML message
email-addr	Add email addr
s0	Provide email address, example: jdow@xyz.com

Command Mode

- /exec/configure/callhome

destination-profile CiscoTAC-1 http

[no] destination-profile CiscoTAC-1 http <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
CiscoTAC-1	Configure destination profile for XML message
http	Add http or https url
s0	Provide http or https url, example1: http://site.com/services/callserv example2: https://site2.com/serv/CALL

Command Mode

- /exec/configure/callhome

destination-profile CiscoTAC-1 message-level

destination-profile CiscoTAC-1 message-level <i0>

Syntax Description

destination-profile	Configure destination profiles
CiscoTAC-1	Configure destination profile for XML message
message-level	Callhome message level(0-lowest urgency, 9-highest urgency)
<i>i0</i>	

Command Mode

- /exec/configure/callhome

destination-profile CiscoTAC-1 message-size

destination-profile CiscoTAC-1 message-size <i0>

Syntax Description

destination-profile	Configure destination profiles
CiscoTAC-1	Configure destination profile for XML message
message-size	Configure maximum message size (default 5000000)
<i>i0</i>	Provide maximum possible message size

Command Mode

- /exec/configure/callhome

destination-profile CiscoTAC-1 transport-method email

[no] destination-profile CiscoTAC-1 transport-method email

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
CiscoTAC-1	Configure destination profile for XML message
transport-method	Callhome message sending transport-method
email	email transport-method

Command Mode

- /exec/configure/callhome

destination-profile CiscoTAC-1 transport-method http

[no] destination-profile CiscoTAC-1 transport-method http

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
CiscoTAC-1	Configure destination profile for XML message
transport-method	Callhome message sending transport-method
http	http transport-method

Command Mode

- /exec/configure/callhome

destination-profile alert-group

[no] destination-profile <s0> alert-group { All | Configuration | Diagnostic | EEM | Cisco-TAC | Environmental | Inventory | License | Linecard-Hardware | Supervisor-Hardware | Syslog-group-port | System | Test }

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
s0	User defined destination profile name
alert-group	Add alert group
All	This alert group consists of all of the callhome messages
Cisco-TAC	Events which are meant for Cisco TAC only
Environmental	Power, fan, temperature related events
Inventory	Inventory status events
License	Events related to licensing
Linecard-Hardware	Linecard related events
Supervisor-Hardware	Supervisor related events
Syslog-group-port	Events related to syslog messages filed by port manager
System	Software related events
Test	User generated test events
Configuration	Events related to Configuration
Diagnostic	Events related to Diagnostic
EEM	EEM events

Command Mode

- /exec/configure/callhome

destination-profile email-addr

[no] destination-profile <s0> email-addr <s1>

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
s0	User defined destination profile name
email-addr	Add email addr
s1	Provide email address, example: jdow@xyz.com

Command Mode

- /exec/configure/callhome

destination-profile format

destination-profile <s0> format { full-txt | short-txt | XML }

Syntax Description

destination-profile	Configure destination profiles
<i>s0</i>	User defined destination profile name
format	Callhome message format (default XML)
full-txt	Plain text message format
short-txt	Short text message format
XML	XML message format

Command Mode

- /exec/configure/callhome

destination-profile full-txt-destination alert-group

[no] destination-profile full-txt-destination alert-group { All | Configuration | Diagnostic | EEM | Cisco-TAC | Environmental | Inventory | License | Linecard-Hardware | Supervisor-Hardware | Syslog-group-port | System | Test }

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
alert-group	Add alert group
All	This alert group consists of all of the callhome messages
Cisco-TAC	Events which are meant for Cisco TAC only
Environmental	Power,fan,temperature related events
Inventory	Inventory status events
License	Events related to licensing
Linecard-Hardware	Linecard related events
Supervisor-Hardware	Supervisor related events
Syslog-group-port	Events related to syslog messages filed by port manager
System	Software related events
Test	User generated test events
Configuration	Events related to Configuration
Diagnostic	Events related to Diagnostic
EEM	EEM events

Command Mode

- /exec/configure/callhome

destination-profile full-txt-destination email-addr

[no] destination-profile full-txt-destination email-addr <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
email-addr	Add email addr
s0	Provide email address, example: jdow@xyz.com

Command Mode

- /exec/configure/callhome

destination-profile full-txt-destination http

[no] destination-profile full-txt-destination http <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
http	Add http or https url
s0	Provide http or https url, example1: http://site.com/services/callserv example2: https://site2.com/serv/CALL

Command Mode

- /exec/configure/callhome

destination-profile full-txt-destination message-level

destination-profile full-txt-destination message-level <i0>

Syntax Description

destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
message-level	Callhome message level(0-lowest urgency, 9-highest urgency)
<i>i0</i>	

Command Mode

- /exec/configure/callhome

destination-profile full-txt-destination message-size

destination-profile full-txt-destination message-size <i0>

Syntax Description

destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
message-size	Configure maximum message size (default 2500000)
<i>i0</i>	Provide maximum possible message size

Command Mode

- /exec/configure/callhome

destination-profile full-txt-destination transport-method email

[no] destination-profile full-txt-destination transport-method email

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
transport-method	Callhome message sending transport-method
email	email transport-method

Command Mode

- /exec/configure/callhome

destination-profile full-txt-destination transport-method http

[no] destination-profile full-txt-destination transport-method http

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
full-txt-destination	Configure destination profile for plain txt message
transport-method	Callhome message sending transport-method
http	http transport-method

Command Mode

- /exec/configure/callhome

destination-profile http

[no] destination-profile <s4> { http <s2> }

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
s4	User defined destination profile name
http	Add http or https url
s2	Provide http or https url, example1: http://site.com/services/callserv example2: https://site2.com/serv/CALL

Command Mode

- /exec/configure/callhome

destination-profile message-level

destination-profile <s0> message-level <i0>

Syntax Description

destination-profile	Configure destination profiles
<i>s0</i>	User defined destination profile name
message-level	Callhome message level(0-lowest urgency, 9-highest urgency)
<i>i0</i>	

Command Mode

- /exec/configure/callhome

destination-profile message-size

destination-profile <s0> message-size <i0>

Syntax Description

destination-profile	Configure destination profiles
<i>s0</i>	User defined destination profile name
message-size	Configure maximum message size (default 2500000)
<i>i0</i>	Provide maximum possible message size

Command Mode

- /exec/configure/callhome

destination-profile short-txt-destination alert-group

[no] destination-profile short-txt-destination alert-group { All | Configuration | Diagnostic | EEM | Cisco-TAC | Environmental | Inventory | License | Linecard-Hardware | Supervisor-Hardware | Syslog-group-port | System | Test }

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
short-txt-destination	Configure destination profile for short txt message
alert-group	Add alert group
All	This alert group consists of all of the callhome messages
Cisco-TAC	Events which are meant for Cisco TAC only
Environmental	Power, fan, temperature related events
Inventory	Inventory status events
License	Events related to licensing
Linecard-Hardware	Linecard related events
Supervisor-Hardware	Supervisor related events
Syslog-group-port	Events related to syslog messages filed by port manager
System	Software related events
Test	User generated test events
Configuration	Events related to Configuration
Diagnostic	Events related to Diagnostic
EEM	EEM events

Command Mode

- /exec/configure/callhome

destination-profile short-txt-destination email-addr

[no] destination-profile short-txt-destination email-addr <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
short-txt-destination	Configure destination profile for short txt message
email-addr	Add email addr
s0	Provide email address, example: jdow@xyz.com

Command Mode

- /exec/configure/callhome

destination-profile short-txt-destination http

[no] destination-profile short-txt-destination http <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
short-txt-destination	Configure destination profile for short txt message
http	Add http or https url
s0	Provide http or https url, example1: http://site.com/services/callserv example2: https://site2.com/serv/CALL

Command Mode

- /exec/configure/callhome

destination-profile short-txt-destination message-level

destination-profile short-txt-destination message-level <i0>

Syntax Description

destination-profile	Configure destination profiles
short-txt-destination	Configure destination profile for short txt message
message-level	Callhome message level(0-lowest urgency, 9-highest urgency)
<i>i0</i>	

Command Mode

- /exec/configure/callhome

destination-profile short-txt-destination message-size

destination-profile short-txt-destination message-size <i0>

Syntax Description

destination-profile	Configure destination profiles
short-txt-destination	Configure destination profile for short txt message
message-size	Configure maximum message size (default 4000)
<i>i0</i>	

Command Mode

- /exec/configure/callhome

destination-profile short-txt-destination transport-method email

[no] destination-profile short-txt-destination transport-method email

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
short-txt-destination	Configure destination profile for short txt message
transport-method	Callhome message sending transport-method
email	email transport-method

Command Mode

- /exec/configure/callhome

destination-profile short-txt-destination transport-method http

[no] destination-profile short-txt-destination transport-method http

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
short-txt-destination	Configure destination profile for short txt message
transport-method	Callhome message sending transport-method
http	http transport-method

Command Mode

- /exec/configure/callhome

destination-profile transport-method email

[no] destination-profile <s5> transport-method email

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
s5	User defined destination profile name
transport-method	Callhome message sending transport-method
email	email transport-method

Command Mode

- /exec/configure/callhome

destination-profile transport-method http

[no] destination-profile <s6> transport-method http

Syntax Description

no	(Optional) Negate a command or set its defaults
destination-profile	Configure destination profiles
s6	User defined destination profile name
transport-method	Callhome message sending transport-method
http	http transport-method

Command Mode

- /exec/configure/callhome

destination

[no] destination | destination <ipaddr>

Syntax Description

no	Negate a command or set its defaults
destination	destination of tunnel
<i>ipaddr</i>	ip address (A.B.C.D)

Command Mode

- /exec/configure/if-te

destination

```
{ [ no ] destination { <ipaddr> | <ipv6addr> } [ use-vrf { <vrf_name> | <vrf-known-name> } ] | no destination }
```

Syntax Description

<code>destination</code>	Specify the destination address
<code>ipaddr</code>	Destination IP address for collector
<code>use-vrf</code>	(Optional) Optional VRF label
<code>vrf_name</code>	(Optional) VRF name
<code>vrf-known-name</code>	(Optional) Known VRF name

Command Mode

- /exec/configure/nfm-exporter

destination filter ip

```
[no] destination filter ip { <ip-addr> <ip-mask> } [ ip | { { udp | tcp } { <port_num> | any } } ] [ { arp | advertise } { enable | disable } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
destination	destination ip configuration
filter	list of ips to filter
ip	destination ip
<i>ip-addr</i>	IP address in format i.i.i.i
<i>ip-mask</i>	IP network mask in format m.m.m.m
ip	(Optional) IP Protocol
udp	(Optional) UDP Protocol
tcp	(Optional) TCP Protocol
<i>port_num</i>	(Optional) Port Number
any	(Optional) Any Port Number
arp	(Optional) ARP
advertise	(Optional) advertise
enable	(Optional) Enable
disable	(Optional) Disable

Command Mode

- /exec/configure/smartc

destination filter ip any any

[no] destination filter ip any any

Syntax Description

no	(Optional) Negate a command or set its defaults
destination	destination ip configuration
filter	list of ips to filter
ip	destination ip
any	Any IP

Command Mode

- /exec/configure/smartc

device-group

{ device-group <name> } | { no device-group <name> }

Syntax Description

no	Negate a command or set its defaults
device-group	ITD device group
<i>name</i>	ITD device group name

Command Mode

- /exec/configure/itd

device-group

{ device-group <group-name> } | { no device-group <group-name> }

Syntax Description

no	Negate a command or set its defaults
device-group	PLB device group
<i>group-name</i>	Device group-name

Command Mode

- /exec/configure/plb

device-role

[no] device-role <dev_role>

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>dev_role</i>	

Command Mode

- /exec/configure/config-snoop-policy

device-role

[no] device-role <devrole>

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>devrole</i>	

Command Mode

- /exec/configure/config-dhcp-guard

device-role

[no] device-role <dev_role>

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>dev_role</i>	

Command Mode

- /exec/configure/config-ra-guard

devtest sap

devtest sap <sap> [exec <func>]

Syntax Description

devtest	Remote API invocation (helps testing and debugging)
sap	Specify the SAP address of the destination queue
<i>sap</i>	SAP address of the destination queue (0 == Registry)
exec	(Optional) Specify the API name to be invoked on the remote feature
<i>func</i>	(Optional) Examples:

Command Mode

- /exec

diagnostic bootup level

[no] diagnostic bootup level

Syntax Description

no	Negate a command or set its defaults
diagnostic	Diagnostic commands
bootup	Configure Diagnostic for bootup
level	Select diagnostic level

Command Mode

- /exec/configure

diagnostic bootup level bypass

diagnostic bootup level { bypass | complete }

Syntax Description

diagnostic	Diagnostic commands
bootup	Configure Diagnostic for bootup
level	Select diagnostic level
bypass	Skip all bootup test
complete	Complete level

Command Mode

- /exec/configure

diagnostic clear result module all diagnostic clear result module test

diagnostic clear result module all | diagnostic clear result module <module> test { <test-id> | all }

Syntax Description

diagnostic	Diagnostic commands
clear	Erase Diagnostic Test Results/Stats
result	Diagnostic test result
module	Module keyword
<i>module</i>	Module number
all	Select all
test	Diagnostic test selection
<i>test-id</i>	

Command Mode

- /exec

diagnostic eem action aggressive

[no] diagnostic eem action aggressive

Syntax Description

no	(Optional) Negate a command or set its defaults
diagnostic	Diagnostic commands
eem	Configure Diagnostic for eem
action	Select diagnostic action
aggressive	Take aggressive default actions

Command Mode

- /exec/configure

diagnostic monitor interval module test all hour min second

diagnostic monitor interval module <module> test { all | <name> | <test-id> } hour <hour-cntr> min <min-cntr> second <sec-cntr> | no diagnostic monitor interval module <module> test { all | <name> | <test-id> }

Syntax Description

no	Negate a command or set its defaults
diagnostic	Diagnostic commands
monitor	Configure diagnostic monitoring test
interval	Configure diagnostic monitoring tests interval
module	Module Keyword
<i>module</i>	Module number
test	Diagnostic test selection
all	Select all test ID
<i>test-id</i>	
<i>name</i>	Test name
hour	Hour of the day
<i>hour-cntr</i>	Interval in hours
min	Minute of an hour
<i>min-cntr</i>	Interval in minutes
second	Second of a minute
<i>sec-cntr</i>	Interval in seconds

Command Mode

- /exec/configure

diagnostic monitor module all

[no] diagnostic monitor module all [test <name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
diagnostic	Diagnostic commands
monitor	Configure diagnostic monitoring test
module	Module Keyword
all	Select all module ID
test	(Optional) Diagnostic test selection
<i>name</i>	(Optional) Test name

Command Mode

- /exec/configure

diagnostic monitor module test all

diagnostic monitor module <module> test { all | <name> | <test-id> } | no diagnostic monitor module <module> test { all | <name> | <test-id> }

Syntax Description

no	Negate a command or set its defaults
diagnostic	Diagnostic commands
monitor	Configure diagnostic monitoring test
module	Module Keyword
<i>module</i>	Module number
test	Diagnostic test selection
all	Select all test ID
<i>test-id</i>	
<i>name</i>	Test name

Command Mode

- /exec/configure

diagnostic ondemand action-on-failure continue failure-count diagnostic ondemand action-on-failure stop

diagnostic ondemand action-on-failure continue failure-count <failure-cnt> | diagnostic ondemand
action-on-failure stop

Syntax Description

diagnostic	Diagnostic commands
ondemand	On demand diagnostic setting
action-on-failure	Set action to take if test fails
continue	Continue ondemand test until test failure limit is reached
failure-count	Continue failing tests this many times
stop	Stop ondemand tests immediately if a test fails
<i>failure-cnt</i>	Maximum number of test failures allowed

Command Mode

- /exec

diagnostic ondemand iteration

diagnostic ondemand iteration <iteration-count>

Syntax Description

diagnostic	Diagnostic commands
ondemand	On demand diagnostic setting
iteration	Set number of times to repeat ondemand test list
<i>iteration-count</i>	Number of times to repeat ondemand test list

Command Mode

- /exec

diagnostic ondemand test-parameter module test port_lb packet-length

diagnostic ondemand test-parameter module <module> test port_lb packet-length <size>

Syntax Description

diagnostic	Diagnostic commands
ondemand	Ondemand command
test-parameter	Set test parameter
module	Module keyword
<i>module</i>	Module number
test	Diagnostic test selection
port_lb	Port loop back test
packet-length	Size of the packet
<i>size</i>	Packet size for the selected module

Command Mode

- /exec

diagnostic pss shrink

diagnostic pss shrink

Syntax Description

diagnostic	Diagnostic commands
pss	PSS command
shrink	compact the diag_port_lb PSS

Command Mode

- /exec

diagnostic start module test

diagnostic start module <module> test { all | <name> | <test-id> | non-disruptive | per-port } [port { iall | <port-id> }]

Syntax Description

diagnostic	Diagnostic commands
start	Starting on demand diagnostic
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>	
non-disruptive	Select the Non-Disruptive test suite [Attribute = N]
per-port	Select the Per-Port test suite [Attribute = P]
port	(Optional) Interface port selection
iall	(Optional) Select all ports
<i>port-id</i>	(Optional)

Command Mode

- /exec

diagnostic stop module test all

```
diagnostic stop module <module> test { all | <name> | <test-id> }
```

Syntax Description

diagnostic	Diagnostic commands
stop	Stopping diagnostic
module	Module keyword
<i>module</i>	Module Number
test	Diagnostic test selection
all	Select all test ID
<i>test-id</i>	
<i>name</i>	Test name

Command Mode

- /exec

diagnostic test simulation module test diagnostic test simulation module test clear

```
diagnostic test simulation module <module> test <test-id> [ port { <port-id> | all } ] { success | fail | random-fail } | diagnostic test simulation module <module> test <test-id> clear
```

Syntax Description

diagnostic	Diagnostic commands
test	Diagnostic test selection
simulation	Simulating Diagnostic result
module	Module keyword
<i>module</i>	Module Number
test	Diagnostic test selection
<i>test-id</i>	
port	(Optional) Interface port selection
all	(Optional) Select all ports
<i>port-id</i>	(Optional)
success	pass test result
fail	fail test result
random-fail	fail test result randomly
clear	Stop simulation

Command Mode

- /exec

diff-clean

diff-clean [all-sessions]

Syntax Description

diff-clean	remove temp files created by ' diff' filters
all-sessions	(Optional) remove ' diff' temp files from all sessions (past and present!) of current user

Command Mode

- /exec

diff-clean all-users

diff-clean all-users

Syntax Description

diff-clean	remove temp files created by ' diff' filters
all-users	remove ' diff' temp files from all sessions (past and present!) of all users

Command Mode

- /exec

diff

| diff [again | echo | -c [<lines>] | -b | -B | -i | -I <regexp> | -y | --left-column | -W <columns> | -q | -s] +

Syntax Description

	Pipe command output to filter
diff	show difference between current and previous invocation (creates temp files: remove them with 'diff-clean' command and dont use it on commands with big outputs, like 'show tech!')
again	(Optional) dont create new file: use old ones, just change display options or add more filters
echo	(Optional) echo the current file (only effective if no old file)
-c	(Optional) set number of lines of context (default 3)
<i>lines</i>	(Optional) number of lines of context
-b	(Optional) Ignore changes in amount of white space
-B	(Optional) Ignore changes that just insert or delete blank lines
-i	(Optional) Ignore changes in case
-I	(Optional) Ignore changes that just insert or delete lines that match regexp
<i>regexp</i>	(Optional) regexp of lines to ignore
-y	(Optional) Use the side by side output format
--left-column	(Optional) Print only the left column of two common lines in side by side format
-W	(Optional) Use an output width of <columns> in side by side format
<i>columns</i>	(Optional) Use an output width of <columns> in side by side format
-q	(Optional) Report only whether the files differ, not the details of the differences
-s	(Optional) Report when two files are the same

Command Mode

- /output

dir

```
dir [ <uri0> | <uri1> | <uri2> ] [ __readonly__ { TABLE_dir <fsize> <timestring> <fname> } { <usage>
<bytesused> <bytesfree> <bytestotal> } ]
```

Syntax Description

<code>dir</code>	list files in a directory
<code>uri0</code>	(Optional) Directory or filename
<code>uri1</code>	(Optional) Directory or filename on expansion flash
<code>uri2</code>	(Optional) Directory or filename on log flash
<code>__readonly__</code>	(Optional) Read Only
<code>TABLE_dir</code>	(Optional) show dir
<code>fsize</code>	(Optional) filesize
<code>timestring</code>	(Optional) time string
<code>fname</code>	(Optional) filename
<code>usage</code>	(Optional) usage
<code>bytesused</code>	(Optional) bytes used
<code>bytesfree</code>	(Optional) bytes free
<code>bytestotal</code>	(Optional) bytes total

Command Mode

- /exec

disable-connected-check

[no | default] disable-connected-check

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
disable-connected-check	Disable check for directly connected peer

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

disable-memory-alert-check

[no] disable-memory-alert-check

Syntax Description

no	(Optional) Negate a command or set its defaults
disable-memory-alert-check	Disables the system memory alert handling in BGP

Command Mode

- /exec/configure/router-bgp

disable-peer-as-check

[no | default] disable-peer-as-check

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
disable-peer-as-check	Disable checking of peer AS-number while advertising

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv4
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

disable-policy-batching

[no] disable-policy-batching [nexthop | { { ipv4 | ipv6 } prefix-list <prfxlist-name> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
disable-policy-batching	Disable batching evaluation of outbound policy for a peer
nexthop	(Optional) batching based on nexthop
ipv4	(Optional) IPv4 address-family
ipv6	(Optional) IPv6 address-family
prefix-list	(Optional) Apply prefix-list
<i>prfxlist-name</i>	(Optional) Name of prefix-list

Command Mode

- /exec/configure/router-bgp

disable

disable

Syntax Description

disable	disable callhome
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Command Mode

- /exec/configure/callhome

discard-route external

[no] discard-route { external | internal }

Syntax Description

no	(Optional) Negate a command or set its defaults
discard-route	Install discard route
external	External route
internal	Internal route

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

discard-route external

[no] discard-route { external | internal }

Syntax Description

no	(Optional) Negate a command or set its defaults
discard-route	Install discard route
external	External route
internal	Internal route

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

discovery

```
discovery { quick-start | hello { holdtime <link-hello-holdtime> | interval <link-hello-intvl> } | targeted-hello
{ accept [ from <pfx-list> ] | tgt-holdtime <tgt-hello-holdtime> | tgt-interval <tgt-hello-intvl> } |
ignore-transport-address | omit-transport-address | spoofing } | no discovery { quick-start | hello { holdtime |
interval } | targeted-hello { accept | tgt-holdtime | tgt-interval } | ignore-transport-address | omit-transport-address
| spoofing }
```

Syntax Description

no	Negate a command or set its defaults
discovery	LDP discovery
quick-start	Enable quick LDP Hello transmissions on interface up
hello	LDP discovery Hello
interval	LDP discovery Hello interval
holdtime	LDP discovery Hello holdtime
<i>link-hello-holdtime</i>	Holdtime in seconds
<i>link-hello-intvl</i>	Hello interval in seconds
targeted-hello	LDP discovery Targeted Hello
accept	Accept targeted hellos
from	(Optional) Prefix list to specify acceptable targeted hello sources
<i>pfx-list</i>	(Optional) Name of prefix list
tgt-holdtime	LDP discovery Targeted Hello holdtime
<i>tgt-hello-holdtime</i>	Holdtime in seconds
tgt-interval	LDP discovery Targeted Hello interval
<i>tgt-hello-intvl</i>	Hello interval in seconds
ignore-transport-address	
omit-transport-address	
spoofing	

Command Mode

- /exec/configure/ldp

distance

distance <ebgp-dist> <ibgp-dist> <local-dist> | no distance [<ebgp-dist> <ibgp-dist> <local-dist>]

Syntax Description

no	Negate a command or set its defaults
distance	Configure administrative distance
<i>ebgp-dist</i>	Distance for EBGp routes
<i>ibgp-dist</i>	Distance for IBGP routes
<i>local-dist</i>	Distance for local routes

Command Mode

- /exec/configure/router-bgp/router-bgp-af

distance

distance <admin-dist> | no distance [<admin-dist>]

Syntax Description

no	Negate a command or set its defaults
distance	OSPF administrative distance
<i>admin-dist</i>	administrative distance value

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

distance

```
{ { distance <int-distance> <ext-distance> } | { no distance [ <int-distance> <ext-distance> ] } }
```

Syntax Description

no	Negate a command or set its defaults
distance	Define an administrative distance
<i>int-distance</i>	Distance for internal routes
<i>ext-distance</i>	Distance for external routes

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

distance

distance <admin-dist> | no distance [<admin-dist>]

Syntax Description

no	Negate a command or set its defaults
distance	Administrative distance
<i>admin-dist</i>	Distance value

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv6

distance

distance <distance> | no distance [<distance>]

Syntax Description

no	Negate a command or set its defaults
distance	RIP administrative distance
<i>distance</i>	RIP administrative distance

Command Mode

- /exec/configure/router-rip/router-rip-af-common /exec/configure/router-rip/router-rip-vrf-af-common

distance

distance <admin-dist> | no distance [<admin-dist>]

Syntax Description

no	Negate a command or set its defaults
distance	OSPFv3 administrative distance
<i>admin-dist</i>	administrative distance value

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

distribute-list route in

[no] distribute-list { { route-map <map> } | { prefix-list <list> } } { in | out } <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
distribute-list	Filter networks in routing updates
route-map	Use a route-map for route filtering
<i>map</i>	Route-map name
prefix-list	Use a prefix-list for route filtering
<i>list</i>	Reference to prefix-list name
in	Filter incoming routing updates
out	Filter outgoing routing updates
<i>interface</i>	Interface name

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

distribute into route-map all

```
{ { distribute <src-level> into <dst-level> { { route-map { <map-name> | <rtr_pol_name> } } | all } } | { no
distribute <src-level> into <dst-level> [ { route-map { <map-name> | <rtr_pol_name> } } | all ] } }
```

Syntax Description

no	Negate a command or set its defaults
distribute	Distribute routes between ISIS levels
<i>src-level</i>	Route-distribution between levels
<i>dst-level</i>	Route-distribution between levels
route-map	Route Map to constrain distribution
into	from level-n into level-m
<i>map-name</i>	A 'routing-rules' route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy
all	Distribute all level-n routes

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-common

dns

```
[no] dns { <WORD> } { name-server { <hostname> | <ip-address> } } { [ source-ip { <source-ip-hostname> | <source-ip-address> } ] [ source-port <src-port> ] } +
```

Syntax Description

no	(Optional)
<i>source-ip</i>	(Optional) source-port
<i>src-port</i>	(Optional)
dns	DNS Operation
<i>WORD</i>	Target IP Address or Hostname
name-server	Name Server
<i>hostname</i>	Destination hostname, broadcast disallowed
<i>ip-address</i>	Destination IP address, broadcast disallowed
<i>source-ip-hostname</i>	(Optional) source IP hostname, broadcast disallowed
<i>source-ip-address</i>	(Optional) source IP address, broadcast disallowed
source-port	(Optional) Source Port

Command Mode

- /exec/configure/ip-sla

domain-id

domain-id { <id> | { type <dtype> value <dvalue> } | Null } | no domain-id [<id> | { type <dtype> value <dvalue> } | Null]

Syntax Description

no	Negate a command or set its defaults
domain-id	OSPF domain-ID
<i>id</i>	OSPF domain ID in IP address format
type	OSPF domain ID type in Hex format
<i>dtype</i>	OSPF domain ID type in Hex format
value	OSPF domain ID ext. community value in Hex
<i>dvalue</i>	
Null	Null Domain-ID

Command Mode

- /exec/configure/router-ospf/vrf

domain-id secondary

domain-id { <id> | { type <dtype> value <dvalue> } | Null } secondary | no domain-id [<id> | { type <dtype> value <dvalue> } | Null] secondary

Syntax Description

no	Negate a command or set its defaults
domain-id	OSPF domain-ID
<i>id</i>	OSPF domain ID in IP address format
type	OSPF domain ID type in Hex format
<i>dtype</i>	OSPF domain ID type in Hex format
value	OSPF domain ID ext. community value in Hex
<i>dvalue</i>	
Null	Null Domain-ID
secondary	Secondary Domain-ID

Command Mode

- /exec/configure/router-ospf/vrf

domain-tag

[no] domain-tag <as-number>

Syntax Description

no	(Optional) Negate a command or set its defaults
domain-tag	Set OSPF process domain-tag
<i>as-number</i>	AS number

Command Mode

- /exec/configure/router-ospf/vrf

dont-capability-negotiate

[no | default] dont-capability-negotiate

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
dont-capability-negotiate	Don't negotiate capability with this neighbor

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

dos2nxos

dos2nxos <uri0>

Syntax Description

dos2nxos	DOS to NXOS text file format converter
<i>uri0</i>	Filename to be displayed

Command Mode

- /exec

dot1q

```
{ dot1q <dot1q-id> [ <intf-id> ] } | { no dot1q }
```

Syntax Description

no	Negate a command or set its defaults
dot1q	Encapsulation dot1q/bd
<i>dot1q-id</i>	Encapsulation dot1q/bd value
<i>intf-id</i>	(Optional) Name of the interface for ngoam on which dot1q is configured

Command Mode

- /exec/configure/configngoamprofile

dot1q

```
{ dot1q <vlan-id> [ cos <cos-val> ] } | { no dot1q }
```

Syntax Description

no	Negate a command or set its defaults
dot1q	specify flow profile to include dot1q tag
<i>vlan-id</i>	specify flow profile vlan-id
cos	(Optional) specify class of service
<i>cos-val</i>	(Optional) class of service value

Command Mode

- /exec/configure/configngoamprofileflow

dot1q

[no] dot1q <vlan-id-sh>

Syntax Description

no	(Optional) Negate a command or set its defaults
dot1q	Configure a dot1q-based static host
<i>vlan-id-sh</i>	

Command Mode

- /exec/configure/static-host

dot1q default dynamic

{ dot1q default dynamic } | { no dot1q default }

Syntax Description

no	Negate a command or set its defaults
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
dot1q	Dot1Q Encapsulation
default	Default (wildcard). Match any dot1q when there is no specific dot1q mapping configured

Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

dot1x default

dot1x default

Syntax Description

dot1x	dot1x configuration commands
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Command Mode

- /exec/configure

dot1x default

dot1x default

Syntax Description

dot1x	dot1x configuration commands
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Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x host-mode

dot1x host-mode <host_mode> | no dot1x host-mode

Syntax Description

dot1x	dot1x configuration commands
host-mode	role of 802.1x authenticating entity
<i>host_mode</i>	Host Mode

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x mac-auth-bypass

dot1x mac-auth-bypass [eap] | no dot1x mac-auth-bypass

Syntax Description

no	Negate a command or set its defaults
dot1x	dot1x configuration commands
mac-auth-bypass	Configure Mac-Auth-Bypass
eap	(Optional) EAP Authentication

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x max-reauth-req

dot1x max-reauth-req <count> | no dot1x max-reauth-req

Syntax Description

dot1x	dot1x configuration commands
max-reauth-req	Maximum Re-authentication Attempts Before Failing
<i>count</i>	number of retries

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x max-req

dot1x max-req <count> | no dot1x max-req

Syntax Description

dot1x	dot1x configuration commands
max-req	Maximum Retries to Initiate Authentication
<i>count</i>	number of retries

Command Mode

- /exec/configure

dot1x max-req

dot1x max-req <count> | no dot1x max-req

Syntax Description

dot1x	dot1x configuration commands
max-req	Maximum Retries to Initiate Authentication
<i>count</i>	number of retries

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x pae

[no] dot1x pae <pae-value>

Syntax Description

dot1x	dot1x configuration commands
pae	role of 802.1x authenticating entity
<i>pae-value</i>	role

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x port-control

[no] dot1x port-control <port-control-value>

Syntax Description

dot1x	dot1x configuration commands
port-control	port control
<i>port-control-value</i>	set the port-control value

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x radius-accounting

[no] dot1x radius-accounting

Syntax Description

dot1x	dot1x configuration commands
radius-accounting	accounting messages to RADIUS

Command Mode

- /exec/configure

dot1x re-authenticate interface

dot1x re-authenticate interface <if>

Syntax Description

dot1x	dot1x configuration commands
re-authenticate	Manually re-authenticate an Interface
<i>if</i>	target interface

Command Mode

- /exec

dot1x re-authentication

[no] dot1x re-authentication

Syntax Description

dot1x	dot1x configuration commands
re-authentication	Enable or Disable Reauthentication for this port

Command Mode

- /exec/configure

dot1x re-authentication

[no] dot1x re-authentication

Syntax Description

dot1x	dot1x configuration commands
re-authentication	Enable or Disable Reauthentication for this port

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x show credential

dot1x show credential <name>

Syntax Description

dot1x	dot1x configuration commands
credential	supplicant credential profile
<i>name</i>	profile name

Command Mode

- /exec/configure/dot1x-cred

dot1x start supplicant interface

```
{ dot1x start supplicant interface <if> } | { dot1x start supplicant interface <if> credential <name> }
```

Syntax Description

dot1x	dot1x configuration commands
start	start 802.1x client
supplicant	802.1x supplicant
<i>if</i>	target interface
credential	credential profile name
<i>name</i>	name

Command Mode

- /exec

dot1x stop supplicant interface

dot1x stop supplicant interface <if>

Syntax Description

dot1x	dot1x configuration commands
stop	stop 802.1x client
supplicant	802.1x supplicant
<i>if</i>	target interface

Command Mode

- /exec

dot1x supplicant credential

[no] dot1x supplicant credential <name>

Syntax Description

dot1x	dot1x configuration commands
supplicant	802.1x supplicant
credential	credential profile name
<i>name</i>	name

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x supplicant credential

[no] dot1x supplicant credential <name>

Syntax Description

dot1x	dot1x configuration commands
supplicant	802.1x supplicant
credential	supplicant credential profile

Command Mode

- /exec/configure

dot1x supplicant default

dot1x supplicant default

Syntax Description

dot1x	dot1x configuration commands
supplicant	802.1x supplicant

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x supplicant max-start

[no] dot1x supplicant max-start <count>

Syntax Description

dot1x	dot1x configuration commands
supplicant	802.1x supplicant
max-start	Maximum Start Requests
<i>count</i>	number

Command Mode

- /exec/configure

dot1x supplicant max-start

[no] dot1x supplicant max-start <count>

Syntax Description

dot1x	dot1x configuration commands
supplicant	802.1x supplicant
max-start	Maximum Start Requests
<i>count</i>	number

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x supplicant timeout auth-period

[no] dot1x supplicant timeout auth-period <value>

Syntax Description

dot1x	dot1x configuration commands
supplicant	802.1x supplicant
timeout	Various Timeouts
auth-period	waiting period for responses from authenticator
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure

dot1x supplicant timeout auth-period

[no] dot1x supplicant timeout auth-period <value>

Syntax Description

dot1x	dot1x configuration commands
supplicant	802.1x supplicant
timeout	Various Timeouts
auth-period	waiting period for responses from authenticator
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x supplicant timeout held-period

[no] dot1x supplicant timeout held-period <value>

Syntax Description

dot1x	dot1x configuration commands
supplicant	802.1x supplicant
timeout	Various Timeouts
held-period	waiting period for retrying, after failed authentication
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure

dot1x supplicant timeout held-period

[no] dot1x supplicant timeout held-period <value>

Syntax Description

dot1x	dot1x configuration commands
supplicant	802.1x supplicant
timeout	Various Timeouts
held-period	waiting period for retrying, after failed authentication
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x supplicant timeout start-period

[no] dot1x supplicant timeout start-period <value>

Syntax Description

dot1x	dot1x configuration commands
supplicant	802.1x supplicant
timeout	Various Timeouts
start-period	Interval Between Start Requests
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure

dot1x supplicant timeout start-period

[no] dot1x supplicant timeout start-period <value>

Syntax Description

dot1x	dot1x configuration commands
supplicant	802.1x supplicant
timeout	Various Timeouts
start-period	Interval Between Start Requests
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x system-auth-control

[no] dot1x system-auth-control

Syntax Description

dot1x	dot1x configuration commands
system-auth-control	Enable or Disable SysAuthControl

Command Mode

- /exec/configure

dot1x timeout quiet-period

dot1x timeout quiet-period <value> | no dot1x timeout quiet-period

Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
quiet-period	Timeout For Retrying Authentication After Failed Authentication
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure

dot1x timeout quiet-period

dot1x timeout quiet-period <value> | no dot1x timeout quiet-period

Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
quiet-period	Timeout For Retrying Authentication After Failed Authentication
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x timeout ratelimit-period

dot1x timeout ratelimit-period <value> | no dot1x timeout ratelimit-period

Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
ratelimit-period	Rate Limit period for EAPOL-Start
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x timeout re-authperiod

dot1x timeout re-authperiod <value> | no dot1x timeout re-authperiod

Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
re-authperiod	Timeout For Re-Authentication
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure

dot1x timeout re-authperiod

dot1x timeout re-authperiod <value> | no dot1x timeout re-authperiod

Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
re-authperiod	Timeout For Re-Authentication
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x timeout server-timeout

dot1x timeout server-timeout <value> | no dot1x timeout server-timeout

Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
server-timeout	Timeout for Radius Retries
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x timeout supp-timeout

dot1x timeout supp-timeout <value> | no dot1x timeout supp-timeout

Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
supp-timeout	Timeout for Supplicant retries
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

dot1x timeout tx-period

dot1x timeout tx-period <value> | no dot1x timeout tx-period

Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
tx-period	Timeout For Resending Requests To Supplicant
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure

dot1x timeout tx-period

dot1x timeout tx-period <value> | no dot1x timeout tx-period

Syntax Description

dot1x	dot1x configuration commands
timeout	Various Timeouts
tx-period	Timeout For Resending Requests To Supplicant
<i>value</i>	time interval in seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

down-bit-ignore

{ down-bit-ignore } | { no down-bit-ignore }

Syntax Description

no	Negate a command or set its defaults
down-bit-ignore	Configure a PE router to ignore the DN bit for network summary, external and NSSA external LSA

Command Mode

- /exec/configure/router-ospf/vrf

downlink delay

downlink delay <ena-dis-flg> [timeout <time-out>] | no downlink delay

Syntax Description

no	Negate a command or set its defaults
downlink	Change downlink linkup time
delay	delay bringup of downlinks
<i>ena-dis-flg</i>	Enable/Disable downlink delay feature
timeout	(Optional) downlink ports enable delay in seconds
<i>time-out</i>	(Optional) Time out

Command Mode

- /exec/configure

dpp set-qos-group

[no] dpp set-qos-group <qos-group>

Syntax Description

no	(Optional) Negate a command or set its defaults
dpp	Dynamic Packet Prioritization
set-qos-group	QoS group to be mapped
<i>qos-group</i>	QoS Group Value

Command Mode

- /exec/configure/policy-map/type/uf/class

dscp

{ [no] dscp <dscp> | no dscp }

Syntax Description

dscp	Optional DSCP
<i>dscp</i>	Differentiated services codepoint value

Command Mode

- /exec/configure/nfm-exporter

dst-grp

[no] dst-grp <d-grp-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
dst-grp	Associated destination group
<i>d-grp-id</i>	Identifier

Command Mode

- /exec/configure/telemetry/subscription

dual-active exclude interface-vlan

dual-active exclude interface-vlan <allow-vlans> | no dual-active exclude interface-vlan

Syntax Description

no	Negate a command or set its defaults
dual-active	Configuration when peer link is down but peer is alive
interface-vlan	Interface vlan configuration
exclude	Interface vlans to exclude from suspension when dual-active
<i>allow-vlans</i>	Set allowed interface vlans

Command Mode

- /exec/configure/vpc-domain

dual-stage translate xml

```
dual-stage translate <dn> { xml | json } <in_file> <out_file> [ exec-python ] [ delete-files ]
```

Syntax Description

dual-stage	Related to 2 stage commit
translate	Convert from external restful format to internal JSON
xml	Input file has XML
json	Input file has JSON
<i>dn</i>	DN param
<i>in_file</i>	Input file name
<i>out_file</i>	Output file name
exec-python	(Optional) Execute python script after translation
delete-files	(Optional) Delete input and output files after translation

Command Mode

- /exec

duplex

duplex <duplex_mode> | no duplex [<duplex_mode>]

Syntax Description

no	Negate a command or set its defaults
duplex	Enter the port duplex mode
<i>duplex_mode</i>	Interface duplex mode

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

duplex

duplex <duplex_mode> | no duplex [<duplex_mode>]

Syntax Description

no	Negate a command or set its defaults
duplex	Enter the port duplex mode
<i>duplex_mode</i>	Interface duplex mode

Command Mode

- /exec/configure/if-mgmt-ether

duplicate-message throttle

[no] duplicate-message throttle

Syntax Description

no	(Optional) Negate a command or set its defaults
duplicate-message	Configure throttling of duplicate callhome alert messages
throttle	Enable throttling of duplicate callhome alert messages

Command Mode

- /exec/configure/callhome

dynamic-capability

[no | default] dynamic-capability

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
dynamic-capability	Dynamic capability

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

dynamic-med-interval

[no] dynamic-med-interval <sec>

Syntax Description

no	(Optional) Negate a command or set its defaults
dynamic-med-interval	Sets the interval for dampening of med changes
<i>sec</i>	Time interval in seconds

Command Mode

- /exec/configure/router-bgp



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ebgp-multihop

ebgp-multihop <ebgp-ttl> | { no | default } ebgp-multihop [<ebgp-ttl>]

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
ebgp-multihop	Specify multihop TTL for remote peer
<i>ebgp-ttl</i>	EBGP TTL value

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

echo

echo { { revision { 3 | 4 } } | { vendor-extension } } | no echo { { revision } | { vendor-extension } }

Syntax Description

no	Negate a command or set its defaults
echo	Echo Request attributes
revision	Echo packet default revision
3	draft-ietf-mpls-lsp-ping-03 (rev 2)
4	RFC 4379 Compliant
vendor-extension	Send Vendor Extension TLV with echo Req

Command Mode

- /exec/configure/mpls-oam

echo

```
echo [ -e ] [ <line> ]
```

Syntax Description

echo	echo argument back to screen (useful for scripts)
-e	(Optional) enable interpretation of the backslash-escaped characters
<i>line</i>	(Optional) the string to echo (use quotes if string contains spaces)

Command Mode

- /exec

ecp max-retries

ecp max-retries <cnt> | no ecp max-retries [<cnt>]

Syntax Description

no	Negate a command or set its defaults
ecp	ECP (Edge Control Protocol)
max-retries	Maximal number of retransmissions
<i>cnt</i>	Numer of retries. default 3

Command Mode

- /exec/configure

ecp mode lan

[no] ecp mode lan

Syntax Description

no	(Optional) Negate a command or set its defaults
ecp	ECP (Edge Control Protocol)
mode	ECP session mode
lan	Enable ECP LAN mode

Command Mode

- /exec/configure

ecp retransmission-timer-exponent

ecp retransmission-timer-exponent <exp> | no ecp retransmission-timer-exponent [<exp>]

Syntax Description

no	Negate a command or set its defaults
ecp	ECP (Edge Control Protocol)
retransmission-timer-exponent	Retransmission timer exponent
<i>exp</i>	Timer exponent. default: 14 (ex. 10 exp ~ 10 ms)

Command Mode

- /exec/configure

eem test

eem test <param>

Syntax Description

eem	Event Manager command
test	Do test action
<i>param</i>	Test action parameter (dummy value)

Command Mode

- /exec

eemtest policy-add

eemtest policy-add <name> [override <override-name>]

Syntax Description

eemtest	EEM test commands
policy-add	Add a client policy
<i>name</i>	Name of policy (cannot have underscore in first two characters)
override	(Optional) Override a system policy
<i>override-name</i>	(Optional) Name of the system policy to override - should begin with double underscore

Command Mode

- /exec

eemtest policy-remove

eemtest policy-remove <name> [override <override-name>]

Syntax Description

eemtest	EEM test commands
policy-remove	Remove a client policy
<i>name</i>	Name of policy (cannot have underscore in first two characters)
override	(Optional) Override a system policy
<i>override-name</i>	(Optional) Name of the system policy to override - should begin with double underscore

Command Mode

- /exec

egress-engineering

[no | default] egress-engineering [peer-set <peer-set-name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
egress-engineering	Configure Egress Peer Engineering (EPE) for peer
peer-set	(Optional) Configure EPE Peer-Set
<i>peer-set-name</i>	(Optional) EPE Peer-Set name

Command Mode

- /exec/configure/router-bgp/router-bgp-template-neighbor
/exec/configure/router-bgp/router-bgp-neighbor-stmp /exec/configure/router-bgp/router-bgp-neighbor
/exec/configure/router-bgp/router-bgp-prefixneighbor

egress

{ egress <eid> | no egress }

Syntax Description

no	Negate a command or set its defaults
egress	Outgoing egress Interface
<i>eid</i>	Outgoing egress Interface identifier

Command Mode

- /exec/configure/configngoamconnectcheck

eid-notify authentication-key

[no] eid-notify authentication-key <key>

Syntax Description

no	(Optional) Negate a command or set its defaults
eid-notify	First hop xTR notification
authentication-key	Authentication key used by EID-Notify destinations
<i>key</i>	SHA-1 password

Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

eid-notify key

[no] eid-notify <addr> key <auth-key>

Syntax Description

no	(Optional) Negate a command or set its defaults
eid-notify	First hop xTR notification
<i>addr</i>	Address of the first-hop xTR to be notified
key	Authentication key used by EID-Notify destinations
<i>auth-key</i>	SHA-1 password

Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

eid-prefix

```
{ [ no ] eid-prefix { <eid-prefix> | <eid-prefix6> } [ instance-id <iid> ] [ route-tag <tag> ] [
accept-more-specifics ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
eid-prefix	EID-prefix for LISP site
<i>eid-prefix</i>	IP EID-prefix of the site
instance-id	(Optional) Configures instance-ID for site's EID-prefix
<i>iid</i>	(Optional) 24-bit instance-ID value
route-tag	(Optional) Route tag for LISP EID-prefix routes
<i>tag</i>	(Optional) 32-bit value for tag
accept-more-specifics	(Optional) Allow more-specifics of site EID-prefix to register

Command Mode

- /exec/configure/lisp-site /exec/configure/vrf/lisp-site

eigrp event-history cli size

```
[no] eigrp [ <eigrp-ptag> ] event-history { cli } size { <size_in_text> | <size_in_Kbytes> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
eigrp	EIGRP clear commands
<i>eigrp-ptag</i>	(Optional) Process tag
event-history	Event History of EIGRP
cli	EIGRP CLI related events
size	Configure the size of the event-hist buffer
<i>size_in_text</i>	Buffer size
<i>size_in_Kbytes</i>	Size of the file in kbytes

Command Mode

- /exec/configure

eigrp file-debug

[no] eigrp file-debug

Syntax Description

no	(Optional) Negate a command or set its defaults
eigrp	EIGRP
file-debug	Collect all debugs to a file

Command Mode

- /exec/configure

eltm distribute

[no] eltm distribute

Syntax Description

no	(Optional)
eltm	ELTM Configuration
distribute	Distribute ELTM Info to clients

Command Mode

- /exec/configure

email-addr

[no] email-addr <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
email-addr	Add email addr to send output of jobs configured for this schedule
s0	Provide email address, example: jdow@xyz.com

Command Mode

- /exec/configure/schedule

email-contact

{ email-contact <s0> | no email-contact }

Syntax Description

no	Negate a command or set its defaults
email-contact	email address of the contact person
s0	Provide email address, example: jdow@xyz.com

Command Mode

- /exec/configure/callhome

email

[no] email

Syntax Description

no	(Optional) Negate a command or set its defaults
email	Configure pipe email

Command Mode

- /exec/configure

email

```
| email [ -f <fromemail> | -r <replytoemail> | -S <smtphost> | -P <smtpport> | -s <subject> | -c
<vrf-known-name> ] + <toemail>
```

Syntax Description

	Pipe command output to filter
email	Email command output
-f	(Optional) From address
<i>fromemail</i>	(Optional) Email address
-r	(Optional) Reply to address
<i>replytoemail</i>	(Optional) Email address
-S	(Optional) SMTP host
<i>smtphost</i>	(Optional) IPV4/IPV6 address or DNS name
-P	(Optional) SMTP port
<i>smtpport</i>	(Optional) SMTP port number
-s	(Optional) Subject
<i>subject</i>	(Optional) Email subject
-c	(Optional) VRF
<i>vrf-known-name</i>	(Optional) VRF name
<i>toemail</i>	Recipient email address

Command Mode

- /output

enable

enable [<enable-level>]

Syntax Description

enable	Turn on privileged commands
<i>enable-level</i>	(Optional) Enable Level

Command Mode

- /exec

enable

[no] enable

Syntax Description

no	(Optional) Negate a command or set its defaults
enable	enable callhome

Command Mode

- /exec/configure/callhome

enable Cert

[no] enable { Cert-DN-match | user-server-group }

Syntax Description

no	(Optional) Negate a command or set its defaults
enable	Enable
user-server-group	Enable/Disable group validation
Cert-DN-match	Enable/Disable Cert-DN matching

Command Mode

- /exec/configure/ldap

enable secret 0 5

```
{ [ test ] enable secret { 0 <key1> | 5 <key2> | <key3> } [ { priv-lvl <n> | all } ] } | { no enable secret [ { 0 <key1> | 5 <key2> | <key3> } ] [ { priv-lvl <n> | all } ] }
```

Syntax Description

no	Negate a command or set its defaults
test	(Optional) test secrets
enable	create secret for privilege escalation
secret	create secret for privilege escalation (defaults to highest priv-lvl 14/15)
0	Indicates that the secret that follows should be in clear text
<i>key1</i>	Secret for privilege escalation (clear text)
5	Indicates that the secret that follows should be encrypted
<i>key2</i>	strongly encrypted secret
<i>key3</i>	Secret for user privilege escalation (clear text)
priv-lvl	(Optional) Privilege-level to which this secret belongs
<i>n</i>	(Optional) Privilege-level
all	(Optional) Add/remove all privilege level secrets

Command Mode

- /exec/configure

encapsulation dot1Q

encapsulation dot1Q <vlan_id> | no encapsulation dot1Q [<vlan_id>]

Syntax Description

no	Negate a command or set its defaults
encapsulation	Set encapsulation type for an interface
dot1Q	IEEE 802.1Q Virtual LAN
<i>vlan_id</i>	IEEE 802.1Q VLAN ID required

Command Mode

- /exec/configure/if-ether-sub /exec/configure/if-port-channel-sub /exec/configure/if-ether-sub-p2p

encapsulation dot1Q

encapsulation dot1Q <vlan_id> | no encapsulation dot1Q [<vlan_id>]

Syntax Description

no	Negate a command or set its defaults
encapsulation	Set encapsulation type for an interface
dot1Q	IEEE 802.1Q Virtual LAN
<i>vlan_id</i>	IEEE 802.1Q VLAN ID required

Command Mode

- /exec/configure/if-gig-ether-sub /exec/configure/if-remote-ethernet-sub

encapsulation mpls

[no | default] encapsulation mpls

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
encapsulation	Configure encapsulation type for EVPN routes
mpls	Mpls encapsulation

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn

encrypt pause-frame

[no] encrypt pause-frame

Syntax Description

encrypt	Enable/disable encryption for specific type of frames
pause-frame	Ethernet PAUSE frames

Command Mode

- /exec/configure/cts-dot1x /exec/configure/cts-manual

encryption decrypt type6

encryption decrypt type6

Syntax Description

encryption	Strong encryption for credential(s)
decrypt	Decrypts strongly encrypted secret(s) to obfuscated type(s)
type6	type6 secrets present in system

Command Mode

- /exec

encryption delete type6

encryption delete type6 [<uuid> | <name>]

Syntax Description

encryption	Strong encryption for credential(s)
delete	Deletes strongly encrypted secret(s)
type6	type6 secrets present in system
<i>uuid</i>	(Optional) uuid of the app
<i>name</i>	(Optional) Service name

Command Mode

- /exec

encryption re-encrypt obfuscated

encryption re-encrypt obfuscated

Syntax Description

encryption	Strong encryption for credential(s)
re-encrypt	Re-encrypts weakly encrypted secret(s) to strongly encrypted secret(s)
obfuscated	type-3/type-7/clear-text secrets present in system

Command Mode

- /exec

end-job

end-job

Syntax Description

end-job	End scheduler job
---------	-------------------

Command Mode

- /exec

end

end

Syntax Description

end	Go to exec mode
-----	-----------------

Command Mode

- /global

enforce-first-as

[no] enforce-first-as

Syntax Description

no	(Optional) Negate a command or set its defaults
enforce-first-as	Enforce neighbor AS is the first AS in AS-PATH attribute (EBGP)

Command Mode

- /exec/configure/router-bgp

enrollment terminal

[no] enrollment terminal

Syntax Description

no	(Optional) Negate a command or set its defaults
enrollment	Configure trustpoint enrollment
terminal	Configure trustpoint enrollment via console

Command Mode

- /exec/configure/trustpoint

errdisable

```
errdisable { detect cause_detect { all_cause | link-flap_cause | loopback_cause } | recovery { cause_recovery
{ all_recovery | udd | loopback_recovery | bpduguard | security-violation | psecure-violation | link-flap-recovery
| storm-control | dcbx-no-ack | vpc-peerlink | failed-port-state } } } | no errdisable { detect cause_detect {
all_cause | link-flap_cause | loopback_cause } | recovery { cause_recovery { all_recovery | udd |
loopback_recovery | bpduguard | security-violation | psecure-violation | link-flap-recovery | storm-control |
dcbx-no-ack | vpc-peerlink | failed-port-state } } }
```

Syntax Description

no	Negate a command or set its defaults
errdisable	Error disable
detect	Error disable detection
cause_detect	Enable error disable detection for application
all_cause	Enable error detection on all cases
link-flap_cause	Enable error disable detection on linkstate-flapping
loopback_cause	Enable error disable detection on loopback detected by UDLD
recovery	Error disable recovery
cause_recovery	Enable error disable recovery for application
all_recovery	Enable timer to recover from all causes
udd	Enable timer to recover from udd error disabled state
loopback_recovery	Enable timer to recover from loopback error disabled state detected by UDLD
bpduguard	Enable timer to recover from BPDU Guard error disable state
security-violation	Enable timer to recover from 802.1x violation disable state
psecure-violation	Enable timer to recover from psecure violation disable state
link-flap-recovery	Enable timer to recover from linkstate flapping
storm-control	Enable timer to recover from storm control error disabled state
dcbx-no-ack	Enable timer to recover from no DCBX Acks
vpc-peerlink	Enable timer to recover from inconsistent vpc peer-link
failed-port-state	Enable timer to recover from stp set port state failure

Command Mode

- /exec/configure

errdisable detect cause acl-exception

[no] errdisable detect cause acl-exception

Syntax Description

no	(Optional) Negate a command or set its defaults
----	---

Command Mode

- /exec/configure

errdisable port detect cause acl-exception

[no] errdisable port detect cause acl-exception

Syntax Description

no	(Optional) Negate a command or set its defaults
----	---

Command Mode

- /exec/configure/if-ethernet /exec/configure/if-ethernet-switch

errdisable recovery interval

errdisable recovery interval <val> | no errdisable recovery interval [<val>]

Syntax Description

no	Negate a command or set its defaults
errdisable	Error disable
recovery	Error disable recovery
interval	Error disable recovery timer value
<i>val</i>	timer-interval (sec)

Command Mode

- /exec/configure

eth-port-manager internal-errdisable

```
{ eth-port-manager internal-errdisable <ifindex> { uddl | bpduguard | loopback | security-violation |
psecure-violation | link-flap | dhcp-rate-limit | arp-inspection | storm-control | ip-addr-conflict |
ipQos-Dcbxp-compat-fail | port-error <enum-port-err> } }
```

Syntax Description

eth-port-manager	ethernet port manager
internal-errdisable	error-disable a port
<i>ifindex</i>	specify index
uddl	uddl
bpduguard	BPDU Guard error disable state
loopback	loopback error recovery
security-violation	802.1x violation disable state
psecure-violation	psecure violation disable state
link-flap	linkstate flapping
dhcp-rate-limit	dhcp-rate-limit
arp-inspection	arp-inspection
storm-control	storm-control error disabled state
ip-addr-conflict	ip address conflict
ipQos-Dcbxp-compat-fail	ipQos DCBXP compat fail
port-error	Enter port error
<i>enum-port-err</i>	port syserr

Command Mode

- /exec

ethanalyzer local

[no] ethanalyzer local [{ { {

Syntax Description

{	(Optional) inband
no	(Optional) Negate a command or set its defaults
ethanalyzer	Configure cisco packet analyzer
local	start local capture of frames to Sup

Command Mode

- /exec

ethernet-segment

[no] ethernet-segment <es-num>

Syntax Description

no	(Optional) Negate a command or set its defaults
ethernet-segment	Configure Ethernet-Segment
<i>es-num</i>	ethernet-segment number

Command Mode

- /exec/configure/if-eth-port-channel-switch

ethernet-segment delay-restore time

[no] ethernet-segment delay-restore time <sec>

Syntax Description

no	(Optional) Negate a command or set its defaults
ethernet-segment	ethernet-segment
delay-restore	delay-restore
time	time
<i>sec</i>	time in seconds

Command Mode

- /exec/configure/evpn-esi-mh

ethernet-tag encapsulation dot1q default static

{ ethernet-tag encapsulation dot1q default { static <profile-name> | dynamic } } | { no ethernet-tag encapsulation dot1q default }

Syntax Description

no	Negate a command or set its defaults
ethernet-tag	Data snooping triggers
encapsulation	Encapsulation/Trigger type
static	Static Profile Map: Configure profile name via CLI
<i>profile-name</i>	Static Profile Map: Configure profile name via CLI
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
dot1q	Dot1Q Encapsulation
default	Default (wildcard). Match any dot1q when there is no specific dot1q mapping configured

Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

ethernet-tag encapsulation dot1q static

{ ethernet-tag encapsulation dot1q <vlan-id> { static <profile-name> | dynamic } } | { no ethernet-tag encapsulation dot1q <vlan-id> }

Syntax Description

no	Negate a command or set its defaults
ethernet-tag	Data snooping triggers
encapsulation	Encapsulation/Trigger type
static	Static Profile Map: Configure profile name via CLI
<i>profile-name</i>	Static Profile Map: Configure profile name via CLI
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
dot1q	Dot1Q Encapsulation
<i>vlan-id</i>	

Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

ethernet-tag encapsulation vni default static

```
{ ethernet-tag encapsulation vni default { static <profile-name> | dynamic } } | { no ethernet-tag encapsulation vni default }
```

Syntax Description

no	Negate a command or set its defaults
ethernet-tag	Data snooping triggers
encapsulation	Encapsulation/Trigger type
static	Static Profile Map: Configure profile name via CLI
<i>profile-name</i>	Static Profile Map: Configure profile name via CLI
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
vni	Virtual Network Identifier
default	Default (wildcard). Match any vni when there is no specific vni mapping configured

Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

ethernet-tag encapsulation vni static

```
{ ethernet-tag encapsulation vni <vni-id> { static <profile-name> | dynamic } } | { no ethernet-tag encapsulation vni <vni-id> }
```

Syntax Description

no	Negate a command or set its defaults
ethernet-tag	Data snooping triggers
encapsulation	Encapsulation/Trigger type
static	Static Profile Map: Configure profile name via CLI
<i>profile-name</i>	Static Profile Map: Configure profile name via CLI
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
vni	Virtual Network Identifier
<i>vni-id</i>	

Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

evb batch-response disable

{ [no] evb batch-response disable }

Syntax Description

no	(Optional) Negate a command or set its defaults
evb	EVB (Edge Virtual Bridge)
batch-response	Disable batch-response
disable	Disable batch-response

Command Mode

- /exec/configure

evb mac

```
{ evb mac <mac-addr> } | { no evb mac [ <mac-addr> ] }
```

Syntax Description

no	Negate a command or set its defaults
evb	EVB (Edge Virtual Bridge)
mac	VDP multicast MAC address
<i>mac-addr</i>	MAC Address

Command Mode

- /exec/configure

evb reinit-keep-alive

```
{ evb reinit-keep-alive <exp> } | { no evb reinit-keep-alive [ <exp> ] }
```

Syntax Description

no	Negate a command or set its defaults
evb	EVB (Edge Virtual Bridge)
reinit-keep-alive	Keepalive
<i>exp</i>	Timer exponent. (Min 22 exp ~ 40 seconds)

Command Mode

- /exec/configure

evb resource-wait-delay

{ evb resource-wait-delay <exp> } | { no evb resource-wait-delay [<exp>] }

Syntax Description

no	Negate a command or set its defaults
evb	EVB (Edge Virtual Bridge)
resource-wait-delay	Resource wait delay
<i>exp</i>	Timer exponent. (Min 22 exp ~ 40 seconds)

Command Mode

- /exec/configure

event-history

[no] event-history { detail | periodic | objstore } [size { <size_in_text> | <bytes> | disable }]

Syntax Description

no	(Optional) Negate a command or set its defaults
event-history	Configure event-history details
detail	Detailed event history buffer
periodic	Periodic events history buffer
objstore	Objstore events history buffer
size	(Optional) Set the buffer size
disable	(Optional) Disable the buffer
<i>size_in_text</i>	(Optional) Buffer size
<i>bytes</i>	(Optional) Buffer size in bytes

Command Mode

- /exec/configure/router-bgp

event-history adbm category all

event-history adbm category all

Syntax Description

event-history	switch wide event history configuration
adbm	Configure adbm event logs
category	Configure adbm event logs for category
all	Configure adbm event logs for category all events

Command Mode

- /exec

event-history adbm category all

event-history adbm no category all

Syntax Description

event-history	switch wide event history configuration
adbm	Configure adbm event logs
no	Disable adbm event logs for category
category	Configure adbm event logs for category
all	Configure adbm event logs for category all events

Command Mode

- /exec

event-history adbm category fc2

```
event-history adbm category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
adbm	Configure adbm event logs
category	Configure adbm event logs for category
fc2	Configure adbm event logs for category FC2
rx	(Optional) Configure adbm event logs for FC2 Rx frames
brief	(Optional) Configure brief adbm event logs for FC2 Rx
detail	(Optional) Configure detail adbm event logs for FC2 Rx
tx	(Optional) Configure adbm event logs for FC2 Tx frames
brief1	(Optional) Configure brief adbm event logs for FC2 Tx
detail1	(Optional) Configure detail adbm event logs for FC2 Tx

Command Mode

- /exec

event-history adbm category fc2

```
event-history adbm no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
adbm	Configure adbm event logs
no	Disable adbm event logs for category
category	Configure adbm event logs for category
fc2	Configure adbm event logs for category FC2
rx	(Optional) Configure adbm event logs for FC2 Rx frames
brief	(Optional) Configure brief adbm event logs for FC2 Rx
detail	(Optional) Configure detail adbm event logs for FC2 Rx
tx	(Optional) Configure adbm event logs for FC2 Tx frames
brief1	(Optional) Configure brief adbm event logs for FC2 Tx
detail1	(Optional) Configure detail adbm event logs for FC2 Tx

Command Mode

- /exec

event-history adbm category mts

```
event-history adbm category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
adbm	Configure adbm event logs
category	Configure adbm event logs for category
mts	Configure adbm event logs for category mts
rx	(Optional) Configure adbm event logs for mts Rx frames
brief	(Optional) Configure brief adbm event logs for mts Rx
detail	(Optional) Configure detail adbm event logs for mts Rx
tx	(Optional) Configure adbm event logs for mts Tx frames
brief1	(Optional) Configure brief adbm event logs for mts Tx
detail1	(Optional) Configure detail adbm event logs for mts Tx

Command Mode

- /exec

event-history adbm category mts

```
event-history adbm no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
adbm	Configure adbm event logs
no	Disable adbm event logs for category
category	Configure adbm event logs for category
mts	Configure adbm event logs for category mts
rx	(Optional) Configure adbm event logs for mts Rx frames
brief	(Optional) Configure brief adbm event logs for mts Rx
detail	(Optional) Configure detail adbm event logs for mts Rx
tx	(Optional) Configure adbm event logs for mts Tx frames
brief1	(Optional) Configure brief adbm event logs for mts Tx
detail1	(Optional) Configure detail adbm event logs for mts Tx

Command Mode

- /exec

event-history callhome

```
event-history callhome { mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] | no mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] }
```

Syntax Description

event-history	switch wide event history configuration
callhome	Configure Callhome event logs
mts	Configure callhome event logs for MTS
rx	(Optional) Configure callhome event logs for MTS Rx frames
brief	(Optional) Configure brief callhome event logs for MTS Rx
detail	(Optional) Configure detail callhome event logs for MTS Rx
tx	(Optional) Configure callhome event logs for MTS Tx frames
brief1	(Optional) Configure brief callhome event logs for MTS Tx
detail1	(Optional) Configure detail callhome event logs for MTS Tx
no	Disable callhome event logs for MTS
mts	Configure callhome event logs for MTS
rx	(Optional) Configure callhome event logs for MTS Rx frames
brief1	(Optional) Configure brief callhome event logs for MTS Rx
detail1	(Optional) Configure detail callhome event logs for MTS Rx
tx	(Optional) Configure callhome event logs for MTS Tx frames
brief2	(Optional) Configure brief callhome event logs for MTS Tx
detail2	(Optional) Configure detail callhome event logs for MTS Tx

Command Mode

- /exec

event-history capability

```
event-history capability { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] ] } } | no
category { all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] ] } }
```

Syntax Description

event-history	switch wide event history configuration
capability	Configure capability event logs
category	Configure capability event logs for category
all	Configure capability event logs for category all events
mts	Configure capability event logs for category mts
rx	(Optional) Configure capability event logs for mts Rx frames
brief	(Optional) Configure brief capability event logs for mts Rx
detail	(Optional) Configure detail capability event logs for mts Rx
tx	(Optional) Configure capability event logs for mts Tx frames
brief1	(Optional) Configure brief capability event logs for mts Tx
detail1	(Optional) Configure detail capability event logs for mts Tx
no	Disable capability event logs for category
category	Configure capability event logs for category
all	Configure capability event logs for category all events
mts	Configure capability event logs for category mts
rx	(Optional) Configure capability event logs for mts Rx frames
brief1	(Optional) Configure brief capability event logs for mts Rx
detail1	(Optional) Configure detail capability event logs for mts Rx
tx	(Optional) Configure capability event logs for mts Tx frames
brief2	(Optional) Configure brief capability event logs for mts Tx
detail2	(Optional) Configure detail capability event logs for mts Tx

Command Mode

- /exec

event-history cli

[no] event-history cli [size { <size_in_text> | <bytes> | disable }]

Syntax Description

no	(Optional) Negate a command or set its defaults
event-history	Configure event-history details
cli	CLI event history buffer
size	(Optional) Set the buffer size
disable	(Optional) Disable the buffer
<i>size_in_text</i>	(Optional) Buffer size
<i>bytes</i>	(Optional) Buffer size in bytes

Command Mode

- /exec/configure/router-bgp

event-history copp category all

event-history copp category all

Syntax Description

event-history	switch wide event history configuration
copp	Configure copp event logs
category	Configure copp event logs for category
all	Configure copp event logs for category all events

Command Mode

- /exec

event-history copp category all

event-history copp no category all

Syntax Description

event-history	switch wide event history configuration
copp	Configure copp event logs
no	Disable copp event logs for category
category	Configure copp event logs for category
all	Configure copp event logs for category all events

Command Mode

- /exec

event-history copp category fc2

```
event-history copp category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
copp	Configure copp event logs
category	Configure copp event logs for category
fc2	Configure copp event logs for category FC2
rx	(Optional) Configure copp event logs for FC2 Rx frames
brief	(Optional) Configure brief copp event logs for FC2 Rx
detail	(Optional) Configure detail copp event logs for FC2 Rx
tx	(Optional) Configure copp event logs for FC2 Tx frames
brief1	(Optional) Configure brief copp event logs for FC2 Tx
detail1	(Optional) Configure detail copp event logs for FC2 Tx

Command Mode

- /exec

event-history copp category fc2

```
event-history copp no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
copp	Configure copp event logs
no	Disable copp event logs for category
category	Configure copp event logs for category
fc2	Configure copp event logs for category FC2
rx	(Optional) Configure copp event logs for FC2 Rx frames
brief	(Optional) Configure brief copp event logs for FC2 Rx
detail	(Optional) Configure detail copp event logs for FC2 Rx
tx	(Optional) Configure copp event logs for FC2 Tx frames
brief1	(Optional) Configure brief copp event logs for FC2 Tx
detail1	(Optional) Configure detail copp event logs for FC2 Tx

Command Mode

- /exec

event-history copp category mts

```
event-history copp category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
copp	Configure copp event logs
category	Configure copp event logs for category
mts	Configure copp event logs for category mts
rx	(Optional) Configure copp event logs for mts Rx frames
brief	(Optional) Configure brief copp event logs for mts Rx
detail	(Optional) Configure detail copp event logs for mts Rx
tx	(Optional) Configure copp event logs for mts Tx frames
brief1	(Optional) Configure brief copp event logs for mts Tx
detail1	(Optional) Configure detail copp event logs for mts Tx

Command Mode

- /exec

event-history copp category mts

event-history copp no category mts [{ rx [{ brief | detail }] | tx [{ brief1 | detail1 }] }]

Syntax Description

event-history	switch wide event history configuration
copp	Configure copp event logs
no	Disable copp event logs for category
category	Configure copp event logs for category
mts	Configure copp event logs for category mts
rx	(Optional) Configure copp event logs for mts Rx frames
brief	(Optional) Configure brief copp event logs for mts Rx
detail	(Optional) Configure detail copp event logs for mts Rx
tx	(Optional) Configure copp event logs for mts Tx frames
brief1	(Optional) Configure brief copp event logs for mts Tx
detail1	(Optional) Configure detail copp event logs for mts Tx

Command Mode

- /exec

event-history dot1x

```
event-history dot1x { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

Syntax Description

event-history	switch wide event history configuration
dot1x	Configure dot1x event logs
category	Configure dot1x event logs for category
all	Configure dot1x event logs for category all events
mts	Configure dot1x event logs for category mts
rx	(Optional) Configure dot1x event logs for mts Rx frames
brief	(Optional) Configure brief dot1x event logs for mts Rx
detail	(Optional) Configure detail dot1x event logs for mts Rx
tx	(Optional) Configure dot1x event logs for mts Tx frames
brief1	(Optional) Configure brief dot1x event logs for mts Tx
detail1	(Optional) Configure detail dot1x event logs for mts Tx
no	Disable dot1x event logs for category
category	Configure dot1x event logs for category
all	Configure dot1x event logs for category all events
mts	Configure dot1x event logs for category mts
rx	(Optional) Configure dot1x event logs for mts Rx frames
brief1	(Optional) Configure brief dot1x event logs for mts Rx
detail1	(Optional) Configure detail dot1x event logs for mts Rx
tx	(Optional) Configure dot1x event logs for mts Tx frames
brief2	(Optional) Configure brief dot1x event logs for mts Tx
detail2	(Optional) Configure detail dot1x event logs for mts Tx

Command Mode

- /exec

event-history eltm category all

event-history eltm category all

Syntax Description

event-history	switch wide event history configuration
eltm	Configure eltm event logs
category	Configure eltm event logs for category
all	Configure eltm event logs for category all events

Command Mode

- /exec

event-history eltm category all

event-history eltm no category all

Syntax Description

event-history	switch wide event history configuration
eltm	Configure eltm event logs
no	Disable eltm event logs for category
category	Configure eltm event logs for category
all	Configure eltm event logs for category all events

Command Mode

- /exec

event-history eltm category fc2

```
event-history eltm category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
eltm	Configure eltm event logs
category	Configure eltm event logs for category
fc2	Configure eltm event logs for category FC2
rx	(Optional) Configure eltm event logs for FC2 Rx frames
brief	(Optional) Configure brief eltm event logs for FC2 Rx
detail	(Optional) Configure detail eltm event logs for FC2 Rx
tx	(Optional) Configure eltm event logs for FC2 Tx frames
brief	(Optional) Configure brief eltm event logs for FC2 Tx
detail	(Optional) Configure detail eltm event logs for FC2 Tx

Command Mode

- /exec

event-history eltm category fc2

```
event-history eltm no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
eltm	Configure eltm event logs
no	Disable eltm event logs for category
category	Configure eltm event logs for category
fc2	Configure eltm event logs for category FC2
rx	(Optional) Configure eltm event logs for FC2 Rx frames
brief	(Optional) Configure brief eltm event logs for FC2 Rx
detail	(Optional) Configure detail eltm event logs for FC2 Rx
tx	(Optional) Configure eltm event logs for FC2 Tx frames
brief	(Optional) Configure brief eltm event logs for FC2 Tx
detail	(Optional) Configure detail eltm event logs for FC2 Tx

Command Mode

- /exec

event-history eltm category mts

```
event-history eltm category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
eltm	Configure eltm event logs
category	Configure eltm event logs for category
mts	Configure eltm event logs for category mts
rx	(Optional) Configure eltm event logs for mts Rx frames
brief	(Optional) Configure brief eltm event logs for mts Rx
detail	(Optional) Configure detail eltm event logs for mts Rx
tx	(Optional) Configure eltm event logs for mts Tx frames
brief	(Optional) Configure brief eltm event logs for mts Tx
detail	(Optional) Configure detail eltm event logs for mts Tx

Command Mode

- /exec

event-history eltm category mts

event-history eltm no category mts [{ rx [{ brief | detail }] | tx [{ brief | detail }] }]

Syntax Description

event-history	switch wide event history configuration
eltm	Configure eltm event logs
no	Disable eltm event logs for category
category	Configure eltm event logs for category
mts	Configure eltm event logs for category mts
rx	(Optional) Configure eltm event logs for mts Rx frames
brief	(Optional) Configure brief eltm event logs for mts Rx
detail	(Optional) Configure detail eltm event logs for mts Rx
tx	(Optional) Configure eltm event logs for mts Tx frames
brief	(Optional) Configure brief eltm event logs for mts Tx
detail	(Optional) Configure detail eltm event logs for mts Tx

Command Mode

- /exec

event-history errors

[no] event-history errors [size { <size_in_text> | <bytes> | disable }]

Syntax Description

no	(Optional) Negate a command or set its defaults
event-history	Configure event-history details
errors	Errors history buffer
size	(Optional) Set the buffer size
disable	(Optional) Disable the buffer
<i>size_in_text</i>	(Optional) Buffer size
<i>bytes</i>	(Optional) Buffer size in bytes

Command Mode

- /exec/configure/router-bgp

event-history ethpm

```
event-history ethpm { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

Syntax Description

event-history	switch wide event history configuration
ethpm	Configure ethpm event logs
category	Configure ethpm event logs for category
all	Configure ethpm event logs for category all events
mts	Configure ethpm event logs for category mts
rx	(Optional) Configure ethpm event logs for mts Rx frames
brief	(Optional) Configure brief ethpm event logs for mts Rx
detail	(Optional) Configure detail ethpm event logs for mts Rx
tx	(Optional) Configure ethpm event logs for mts Tx frames
brief1	(Optional) Configure brief ethpm event logs for mts Tx
detail1	(Optional) Configure detail ethpm event logs for mts Tx
no	Disable ethpm event logs for category
category	Configure ethpm event logs for category
all	Configure ethpm event logs for category all events
mts	Configure ethpm event logs for category mts
rx	(Optional) Configure ethpm event logs for mts Rx frames
brief1	(Optional) Configure brief ethpm event logs for mts Rx
detail1	(Optional) Configure detail ethpm event logs for mts Rx
tx	(Optional) Configure ethpm event logs for mts Tx frames
brief2	(Optional) Configure brief ethpm event logs for mts Tx
detail2	(Optional) Configure detail ethpm event logs for mts Tx

Command Mode

- /exec

event-history events

[no] event-history events [size { <size_in_text> | <bytes> | disable }]

Syntax Description

no	(Optional) Negate a command or set its defaults
event-history	Configure event-history details
events	Events history buffer
size	(Optional) Set the buffer size
disable	(Optional) Disable the buffer
<i>size_in_text</i>	(Optional) Buffer size
<i>bytes</i>	(Optional) Buffer size in bytes

Command Mode

- /exec/configure/router-bgp

event-history exceptionlog

```
event-history exceptionlog { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no
category { all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] }
```

Syntax Description

event-history	switch wide event history configuration
exceptionlog	Configure expl manager event logs
category	Configure exceptionlog manager event logs for category
all	Configure explog eventlogs for category all events
mts	Configure exceptionlog manager event logs for category mts
rx	(Optional) Configure exceptionlog manager event logs for mts Rx frames
brief	(Optional) Configure brief exceptionlog manager event logs for mts Rx
detail	(Optional) Configure detail exceptionlog manager event logs for mts Rx
tx	(Optional) Configure exceptionlog manager event logs for mts Tx frames
brief1	(Optional) Configure brief exceptionlog manager event logs for mts Tx
detail1	(Optional) Configure detail exceptionlog manager event logs for mts Tx
no	Disable exceptionlog manager event logs for category
category	Configure exceptionlog manager event logs for category
all	Configure explog eventlogs for category all events
mts	Configure exceptionlog manager event logs for category mts
rx	(Optional) Configure exceptionlog manager event logs for mts Rx frames
brief1	(Optional) Configure brief exceptionlog manager event logs for mts Rx
detail1	(Optional) Configure detail exceptionlog manager event logs for mts Rx
tx	(Optional) Configure exceptionlog manager event logs for mts Tx frames
brief2	(Optional) Configure brief exceptionlog manager event logs for mts Tx
detail2	(Optional) Configure detail exceptionlog manager event logs for mts Tx

Command Mode

- /exec

event-history im category mts

```
event-history im no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
im	Configure im event logs
no	Disable im event logs for category
category	Configure im event logs for category
mts	Configure im event logs for category mts
rx	(Optional) Configure im event logs for mts Rx frames
brief	(Optional) Configure brief im event logs for mts Rx
detail	(Optional) Configure detail im event logs for mts Rx
tx	(Optional) Configure im event logs for mts Tx frames
brief1	(Optional) Configure brief im event logs for mts Tx
detail1	(Optional) Configure detail im event logs for mts Tx

Command Mode

- /exec

event-history imp category all

event-history imp category all

Syntax Description

event-history	switch wide event history configuration
imp	Configure imp event logs
category	Configure imp event logs for category
all	Configure imp event logs for category all events

Command Mode

- /exec

event-history imp category all

event-history imp no category all

Syntax Description

event-history	switch wide event history configuration
imp	Configure imp event logs
no	Disable imp event logs for category
category	Configure imp event logs for category
all	Configure imp event logs for category all events

Command Mode

- /exec

event-history imp category fc2

```
event-history imp category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
imp	Configure imp event logs
category	Configure imp event logs for category
fc2	Configure imp event logs for category FC2
rx	(Optional) Configure imp event logs for FC2 Rx frames
brief	(Optional) Configure brief imp event logs for FC2 Rx
detail	(Optional) Configure detail imp event logs for FC2 Rx
tx	(Optional) Configure imp event logs for FC2 Tx frames
brief1	(Optional) Configure brief imp event logs for FC2 Tx
detail1	(Optional) Configure detail imp event logs for FC2 Tx

Command Mode

- /exec

event-history imp category fc2

```
event-history imp no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
imp	Configure imp event logs
no	Disable imp event logs for category
category	Configure imp event logs for category
fc2	Configure imp event logs for category FC2
rx	(Optional) Configure imp event logs for FC2 Rx frames
brief	(Optional) Configure brief imp event logs for FC2 Rx
detail	(Optional) Configure detail imp event logs for FC2 Rx
tx	(Optional) Configure imp event logs for FC2 Tx frames
brief1	(Optional) Configure brief imp event logs for FC2 Tx
detail1	(Optional) Configure detail imp event logs for FC2 Tx

Command Mode

- /exec

event-history imp category mts

```
event-history imp category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
imp	Configure imp event logs
category	Configure imp event logs for category
mts	Configure imp event logs for category mts
rx	(Optional) Configure imp event logs for mts Rx frames
brief	(Optional) Configure brief imp event logs for mts Rx
detail	(Optional) Configure detail imp event logs for mts Rx
tx	(Optional) Configure imp event logs for mts Tx frames
brief1	(Optional) Configure brief imp event logs for mts Tx
detail1	(Optional) Configure detail imp event logs for mts Tx

Command Mode

- /exec

event-history imp category mts

event-history imp no category mts [{ rx [{ brief | detail }] | tx [{ brief1 | detail1 }] }]

Syntax Description

event-history	switch wide event history configuration
imp	Configure imp event logs
no	Disable imp event logs for category
category	Configure imp event logs for category
mts	Configure imp event logs for category mts
rx	(Optional) Configure imp event logs for mts Rx frames
brief	(Optional) Configure brief imp event logs for mts Rx
detail	(Optional) Configure detail imp event logs for mts Rx
tx	(Optional) Configure imp event logs for mts Tx frames
brief1	(Optional) Configure brief imp event logs for mts Tx
detail1	(Optional) Configure detail imp event logs for mts Tx

Command Mode

- /exec

event-history interface vlan category all

event-history interface vlan [no] category all

Syntax Description

event-history	switch wide event history configuration
interface	Configure interfaces
vlan	Configure interface vlan event logs
no	(Optional) Disable interface vlan logs for category
category	Configure interface vlan event logs for category
all	Configure interface vlan event logs for category all events

Command Mode

- /exec

event-history interface vlan category mts

event-history interface vlan [no] category mts [rx [{ brief | detail }]]

Syntax Description

event-history	switch wide event history configuration
interface	Configure interfaces
vlan	Configure interface vlan event logs
no	(Optional) Disable interface vlan logs for category
category	Configure interface vlan event logs for category
mts	Configure interface vlan event logs for category mts
rx	(Optional) Configure interface vlan event logs for mts Rx frames
brief	(Optional) Configure brief interface vlan event logs for mts Rx
detail	(Optional) Configure detail interface vlan event logs for mts Rx

Command Mode

- /exec

event-history interface vlan category mts

event-history interface vlan [no] category mts [tx [{ brief | detail }]]

Syntax Description

event-history	switch wide event history configuration
interface	Configure interfaces
vlan	Configure interface vlan event logs
no	(Optional) Disable interface vlan logs for category
category	Configure interface vlan event logs for category
mts	Configure interface vlan event logs for category mts
tx	(Optional) Configure interface vlan event logs for mts Tx frames
brief	(Optional) Configure brief interface vlan event logs for mts Tx
detail	(Optional) Configure detail interface vlan event logs for mts Tx

Command Mode

- /exec

event-history keystore

```
event-history { keystore | sksd } { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no category { all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

Syntax Description

event-history	switch wide event history configuration
keystore	Configure keystore event logs
sksd	Configure keystore/sksd event logs
category	Configure keystore event logs for category
all	Configure keystore event logs for category all events
mts	Configure keystore event logs for category mts
rx	(Optional) Configure keystore event logs for mts Rx frames
brief	(Optional) Configure brief keystore event logs for mts Rx
detail	(Optional) Configure detail keystore event logs for mts Rx
tx	(Optional) Configure keystore event logs for mts Tx frames
brief1	(Optional) Configure brief keystore event logs for mts Tx
detail1	(Optional) Configure detail keystore event logs for mts Tx
no	Disable keystore event logs for category
category	Configure keystore event logs for category
all	Configure keystore event logs for category all events
mts	Configure keystore event logs for category mts
rx	(Optional) Configure keystore event logs for mts Rx frames
brief1	(Optional) Configure brief keystore event logs for mts Rx
detail1	(Optional) Configure detail keystore event logs for mts Rx
tx	(Optional) Configure keystore event logs for mts Tx frames
brief2	(Optional) Configure brief keystore event logs for mts Tx
detail2	(Optional) Configure detail keystore event logs for mts Tx

Command Mode

- /exec

event-history lacp category all

event-history lacp category all

Syntax Description

event-history	switch wide event history configuration
lacp	Configure lacp event logs
category	Configure lacp event logs for category
all	Configure lacp event logs for category all events

Command Mode

- /exec

event-history lacp category all

event-history lacp no category all

Syntax Description

event-history	switch wide event history configuration
lacp	Configure lacp event logs
no	Disable lacp event logs for category
category	Configure lacp event logs for category
all	Configure lacp event logs for category all events

Command Mode

- /exec

event-history lacp category fc2

```
event-history lacp category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
lacp	Configure lacp event logs
category	Configure lacp event logs for category
fc2	Configure lacp event logs for category FC2
rx	(Optional) Configure lacp event logs for FC2 Rx frames
brief	(Optional) Configure brief lacp event logs for FC2 Rx
detail	(Optional) Configure detail lacp event logs for FC2 Rx
tx	(Optional) Configure lacp event logs for FC2 Tx frames
brief1	(Optional) Configure brief lacp event logs for FC2 Tx
detail1	(Optional) Configure detail lacp event logs for FC2 Tx

Command Mode

- /exec

event-history lacp category fc2

```
event-history lacp no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
lacp	Configure lacp event logs
no	Disable lacp event logs for category
category	Configure lacp event logs for category
fc2	Configure lacp event logs for category FC2
rx	(Optional) Configure lacp event logs for FC2 Rx frames
brief	(Optional) Configure brief lacp event logs for FC2 Rx
detail	(Optional) Configure detail lacp event logs for FC2 Rx
tx	(Optional) Configure lacp event logs for FC2 Tx frames
brief1	(Optional) Configure brief lacp event logs for FC2 Tx
detail1	(Optional) Configure detail lacp event logs for FC2 Tx

Command Mode

- /exec

event-history lacp category mts

```
event-history lacp category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
lacp	Configure lacp event logs
category	Configure lacp event logs for category
mts	Configure lacp event logs for category mts
rx	(Optional) Configure lacp event logs for mts Rx frames
brief	(Optional) Configure brief lacp event logs for mts Rx
detail	(Optional) Configure detail lacp event logs for mts Rx
tx	(Optional) Configure lacp event logs for mts Tx frames
brief1	(Optional) Configure brief lacp event logs for mts Tx
detail1	(Optional) Configure detail lacp event logs for mts Tx

Command Mode

- /exec

event-history lacp category mts

```
event-history lacp no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
lacp	Configure lacp event logs
no	Disable lacp event logs for category
category	Configure lacp event logs for category
mts	Configure lacp event logs for category mts
rx	(Optional) Configure lacp event logs for mts Rx frames
brief	(Optional) Configure brief lacp event logs for mts Rx
detail	(Optional) Configure detail lacp event logs for mts Rx
tx	(Optional) Configure lacp event logs for mts Tx frames
brief1	(Optional) Configure brief lacp event logs for mts Tx
detail1	(Optional) Configure detail lacp event logs for mts Tx

Command Mode

- /exec

event-history license

```
event-history license { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

Syntax Description

event-history	switch wide event history configuration
license	Configure license manager event logs
category	Configure license manager event logs for category
all	Configure license manager event logs for category all events
mts	Configure license manager event logs for category mts
rx	(Optional) Configure license manager event logs for mts Rx frames
brief	(Optional) Configure brief license manager event logs for mts Rx
detail	(Optional) Configure detail license manager event logs for mts Rx
tx	(Optional) Configure license manager event logs for mts Tx frames
brief1	(Optional) Configure brief license manager event logs for mts Tx
detail1	(Optional) Configure detail license manager event logs for mts Tx
no	Disable license manager event logs for category
category	Configure license manager event logs for category
all	Configure license manager event logs for category all events
mts	Configure license manager event logs for category mts
rx	(Optional) Configure license manager event logs for mts Rx frames
brief1	(Optional) Configure brief license manager event logs for mts Rx
detail1	(Optional) Configure detail license manager event logs for mts Rx
tx	(Optional) Configure license manager event logs for mts Tx frames
brief2	(Optional) Configure brief license manager event logs for mts Tx
detail2	(Optional) Configure detail license manager event logs for mts Tx

Command Mode

- /exec

event-history lldp category all

event-history lldp category all

Syntax Description

event-history	switch wide event history configuration
lldp	Configure lldp event logs
category	Configure lldp event logs for category
all	Configure lldp event logs for category all events

Command Mode

- /exec

event-history lldp category all

event-history lldp no category all

Syntax Description

event-history	switch wide event history configuration
lldp	Configure lldp event logs
no	Disable lldp event logs for category
category	Configure lldp event logs for category
all	Configure lldp event logs for category all events

Command Mode

- /exec

event-history lldp category fc2

```
event-history lldp category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
lldp	Configure lldp event logs
category	Configure lldp event logs for category
fc2	Configure lldp event logs for category FC2
rx	(Optional) Configure lldp event logs for FC2 Rx frames
brief	(Optional) Configure brief lldp event logs for FC2 Rx
detail	(Optional) Configure detail lldp event logs for FC2 Rx
tx	(Optional) Configure lldp event logs for FC2 Tx frames
brief1	(Optional) Configure brief lldp event logs for FC2 Tx
detail1	(Optional) Configure detail lldp event logs for FC2 Tx

Command Mode

- /exec

event-history lldp category fc2

```
event-history lldp no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
lldp	Configure lldp event logs
no	Disable lldp event logs for category
category	Configure lldp event logs for category
fc2	Configure lldp event logs for category FC2
rx	(Optional) Configure lldp event logs for FC2 Rx frames
brief	(Optional) Configure brief lldp event logs for FC2 Rx
detail	(Optional) Configure detail lldp event logs for FC2 Rx
tx	(Optional) Configure lldp event logs for FC2 Tx frames
brief1	(Optional) Configure brief lldp event logs for FC2 Tx
detail1	(Optional) Configure detail lldp event logs for FC2 Tx

Command Mode

- /exec

event-history lldp category mts

```
event-history lldp category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
lldp	Configure lldp event logs
category	Configure lldp event logs for category
mts	Configure lldp event logs for category mts
rx	(Optional) Configure lldp event logs for mts Rx frames
brief	(Optional) Configure brief lldp event logs for mts Rx
detail	(Optional) Configure detail lldp event logs for mts Rx
tx	(Optional) Configure lldp event logs for mts Tx frames
brief1	(Optional) Configure brief lldp event logs for mts Tx
detail1	(Optional) Configure detail lldp event logs for mts Tx

Command Mode

- /exec

event-history lldp category mts

```
event-history lldp no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
lldp	Configure lldp event logs
no	Disable lldp event logs for category
category	Configure lldp event logs for category
mts	Configure lldp event logs for category mts
rx	(Optional) Configure lldp event logs for mts Rx frames
brief	(Optional) Configure brief lldp event logs for mts Rx
detail	(Optional) Configure detail lldp event logs for mts Rx
tx	(Optional) Configure lldp event logs for mts Tx frames
brief1	(Optional) Configure brief lldp event logs for mts Tx
detail1	(Optional) Configure detail lldp event logs for mts Tx

Command Mode

- /exec

event-history mmode category all

```
event-history mmode [ no ] category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] ] }
```

Syntax Description

event-history	switch wide event history configuration
mmode	Configure mmode event logs
no	(Optional) Disable mmode event logs for category
category	Configure mmode event logs for category
all	Configure mmode event logs for category all events
mts	Configure mmode event logs for category mts
rx	(Optional) Configure mmode event logs for mts Rx frames
brief	(Optional) Configure brief mmode event logs for mts Rx
detail	(Optional) Configure detail mmode event logs for mts Rx
tx	(Optional) Configure mmode event logs for mts Tx frames
brief1	(Optional) Configure brief mmode event logs for mts Tx
detail1	(Optional) Configure detail mmode event logs for mts Tx

Command Mode

- /exec

event-history module

```
event-history module { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

Syntax Description

event-history	switch wide event history configuration
module	Configure module event logs
category	Configure module event logs for category
all	Configure module event logs for category all events
mts	Configure module event logs for category mts
rx	(Optional) Configure module event logs for mts Rx frames
brief	(Optional) Configure brief module event logs for mts Rx
detail	(Optional) Configure detail module event logs for mts Rx
tx	(Optional) Configure module event logs for mts Tx frames
brief1	(Optional) Configure brief module event logs for mts Tx
detail1	(Optional) Configure detail module event logs for mts Tx
no	Disable module event logs for category
category	Configure module event logs for category
all	Configure module event logs for category all events
mts	Configure module event logs for category mts
rx	(Optional) Configure module event logs for mts Rx frames
brief1	(Optional) Configure brief module event logs for mts Rx
detail1	(Optional) Configure detail module event logs for mts Rx
tx	(Optional) Configure module event logs for mts Tx frames
brief2	(Optional) Configure brief module event logs for mts Tx
detail2	(Optional) Configure detail module event logs for mts Tx

Command Mode

- /exec

event-history pfstat category all

event-history pfstat category all

Syntax Description

event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
category	Configure pfstat event logs for category
all	Configure pfstat event logs for category all events

Command Mode

- /exec

event-history pfstat category all

event-history pfstat no category all

Syntax Description

event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
no	Disable pfstat event logs for category
category	Configure pfstat event logs for category
all	Configure pfstat event logs for category all events

Command Mode

- /exec

event-history pfstat category fc2

```
event-history pfstat category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
category	Configure pfstat event logs for category
fc2	Configure pfstat event logs for category FC2
rx	(Optional) Configure pfstat event logs for FC2 Rx frames
brief	(Optional) Configure brief pfstat event logs for FC2 Rx
detail	(Optional) Configure detail pfstat event logs for FC2 Rx
tx	(Optional) Configure pfstat event logs for FC2 Tx frames
brief	(Optional) Configure brief pfstat event logs for FC2 Tx
detail	(Optional) Configure detail pfstat event logs for FC2 Tx

Command Mode

- /exec

event-history pfstat category fc2

```
event-history pfstat no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
no	Disable pfstat event logs for category
category	Configure pfstat event logs for category
fc2	Configure pfstat event logs for category FC2
rx	(Optional) Configure pfstat event logs for FC2 Rx frames
brief	(Optional) Configure brief pfstat event logs for FC2 Rx
detail	(Optional) Configure detail pfstat event logs for FC2 Rx
tx	(Optional) Configure pfstat event logs for FC2 Tx frames
brief	(Optional) Configure brief pfstat event logs for FC2 Tx
detail	(Optional) Configure detail pfstat event logs for FC2 Tx

Command Mode

- /exec

event-history pfstat category mts

```
event-history pfstat category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
category	Configure pfstat event logs for category
mts	Configure pfstat event logs for category mts
rx	(Optional) Configure pfstat event logs for mts Rx frames
brief	(Optional) Configure brief pfstat event logs for mts Rx
detail	(Optional) Configure detail pfstat event logs for mts Rx
tx	(Optional) Configure pfstat event logs for mts Tx frames
brief	(Optional) Configure brief pfstat event logs for mts Tx
detail	(Optional) Configure detail pfstat event logs for mts Tx

Command Mode

- /exec

event-history pfstat category mts

```
event-history pfstat no category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
pfstat	Configure pfstat event logs
no	Disable pfstat event logs for category
category	Configure pfstat event logs for category
mts	Configure pfstat event logs for category mts
rx	(Optional) Configure pfstat event logs for mts Rx frames
brief	(Optional) Configure brief pfstat event logs for mts Rx
detail	(Optional) Configure detail pfstat event logs for mts Rx
tx	(Optional) Configure pfstat event logs for mts Tx frames
brief	(Optional) Configure brief pfstat event logs for mts Tx
detail	(Optional) Configure detail pfstat event logs for mts Tx

Command Mode

- /exec

event-history platform buffer-size

event-history platform buffer-size <i0>

Syntax Description

event-history	switch wide event history configuration
platform	Configure platform event logs
buffer-size	Configure platform event logs buffer size
<i>i0</i>	please enter buffer size

Command Mode

- /exec

event-history platform category all

event-history platform category { all | mts [{ rx [{ brief | detail }] | tx [{ brief1 | detail1 }] }] }

Syntax Description

event-history	switch wide event history configuration
platform	Configure platform event logs
category	Configure platform event logs for category
all	Configure platform event logs for category all events
mts	Configure platform event logs for category mts
rx	(Optional) Configure platform event logs for mts Rx frames
brief	(Optional) Configure brief platform event logs for mts Rx
detail	(Optional) Configure detail platform event logs for mts Rx
tx	(Optional) Configure platform event logs for mts Tx frames
brief1	(Optional) Configure brief platform event logs for mts Tx
detail1	(Optional) Configure detail platform event logs for mts Tx

Command Mode

- /exec

event-history platform category all

```
event-history platform no category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] }
```

Syntax Description

event-history	switch wide event history configuration
platform	Configure platform event logs
no	Disable platform event logs for category
category	Configure platform event logs for category
all	Configure platform event logs for category all events
mts	Configure platform event logs for category mts
rx	(Optional) Configure platform event logs for mts Rx frames
brief	(Optional) Configure brief platform event logs for mts Rx
detail	(Optional) Configure detail platform event logs for mts Rx
tx	(Optional) Configure platform event logs for mts Tx frames
brief1	(Optional) Configure brief platform event logs for mts Tx
detail1	(Optional) Configure detail platform event logs for mts Tx

Command Mode

- /exec

event-history pltfm_config category all

event-history pltfm_config category all

Syntax Description

event-history	switch wide event history configuration
pltfm_config	Configure pltfm_config event logs
category	Configure pltfm_config event logs for category
all	Configure pltfm_config event logs for category all events

Command Mode

- /exec

event-history pltfm_config category all

event-history pltfm_config no category all

Syntax Description

event-history	switch wide event history configuration
pltfm_config	Configure pltfm_config event logs
no	Disable pltfm_config event logs for category
category	Configure pltfm_config event logs for category
all	Configure pltfm_config event logs for category all events

Command Mode

- /exec

event-history pltfm_config category fc2

```
event-history pltfm_config category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
pltfm_config	Configure pltfm_config event logs
category	Configure pltfm_config event logs for category
fc2	Configure pltfm_config event logs for category FC2
rx	(Optional) Configure pltfm_config event logs for FC2 Rx frames
brief	(Optional) Configure brief pltfm_config event logs for FC2 Rx
detail	(Optional) Configure detail pltfm_config event logs for FC2 Rx
tx	(Optional) Configure pltfm_config event logs for FC2 Tx frames
brief1	(Optional) Configure brief pltfm_config event logs for FC2 Tx
detail1	(Optional) Configure detail pltfm_config event logs for FC2 Tx

Command Mode

- /exec

event-history pltfm_config category fc2

```
event-history pltfm_config no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
pltfm_config	Configure pltfm_config event logs
no	Disable pltfm_config event logs for category
category	Configure pltfm_config event logs for category
fc2	Configure pltfm_config event logs for category FC2
rx	(Optional) Configure pltfm_config event logs for FC2 Rx frames
brief	(Optional) Configure brief pltfm_config event logs for FC2 Rx
detail	(Optional) Configure detail pltfm_config event logs for FC2 Rx
tx	(Optional) Configure pltfm_config event logs for FC2 Tx frames
brief1	(Optional) Configure brief pltfm_config event logs for FC2 Tx
detail1	(Optional) Configure detail pltfm_config event logs for FC2 Tx

Command Mode

- /exec

event-history pltfm_config category mts

```
event-history pltfm_config category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
pltfm_config	Configure pltfm_config event logs
category	Configure pltfm_config event logs for category
mts	Configure pltfm_config event logs for category mts
rx	(Optional) Configure pltfm_config event logs for mts Rx frames
brief	(Optional) Configure brief pltfm_config event logs for mts Rx
detail	(Optional) Configure detail pltfm_config event logs for mts Rx
tx	(Optional) Configure pltfm_config event logs for mts Tx frames
brief1	(Optional) Configure brief pltfm_config event logs for mts Tx
detail1	(Optional) Configure detail pltfm_config event logs for mts Tx

Command Mode

- /exec

event-history pltfm_config category mts

```
event-history pltfm_config no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
pltfm_config	Configure pltfm_config event logs
no	Disable pltfm_config event logs for category
category	Configure pltfm_config event logs for category
mts	Configure pltfm_config event logs for category mts
rx	(Optional) Configure pltfm_config event logs for mts Rx frames
brief	(Optional) Configure brief pltfm_config event logs for mts Rx
detail	(Optional) Configure detail pltfm_config event logs for mts Rx
tx	(Optional) Configure pltfm_config event logs for mts Tx frames
brief1	(Optional) Configure brief pltfm_config event logs for mts Tx
detail1	(Optional) Configure detail pltfm_config event logs for mts Tx

Command Mode

- /exec

event-history plugin

```
event-history plugin { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ] | no category
{ all | mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ] } }
```

Syntax Description

event-history	switch wide event history configuration
plugin	Configure plugin event logs
category	Configure plugin event logs for category
all	Configure plugin event logs for category all events
mts	Configure plugin event logs for category mts
rx	(Optional) Configure plugin event logs for mts Rx frames
brief	(Optional) Configure brief plugin event logs for mts Rx
detail	(Optional) Configure detail plugin event logs for mts Rx
tx	(Optional) Configure plugin event logs for mts Tx frames
brief	(Optional) Configure brief plugin event logs for mts Tx
detail	(Optional) Configure detail plugin event logs for mts Tx
no	Disable plugin event logs for category
category	Configure plugin event logs for category
all	Configure plugin event logs for category all events
mts	Configure plugin event logs for category mts
rx	(Optional) Configure plugin event logs for mts Rx frames
brief	(Optional) Configure brief plugin event logs for mts Rx
detail	(Optional) Configure detail plugin event logs for mts Rx
tx	(Optional) Configure plugin event logs for mts Tx frames
brief	(Optional) Configure brief plugin event logs for mts Tx
detail	(Optional) Configure detail plugin event logs for mts Tx

Command Mode

- /exec

event-history poap category all

event-history poap category all

Syntax Description

event-history	switch wide event history configuration
poap	Configure poap event logs
category	Configure poap event logs for category
all	Configure poap event logs for category all events

Command Mode

- /exec

event-history poap category all

event-history poap no category all

Syntax Description

event-history	switch wide event history configuration
poap	Configure poap event logs
no	Disable poap event logs for category
category	Configure poap event logs for category
all	Configure poap event logs for category all events

Command Mode

- /exec

event-history poap category fc2

```
event-history poap category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
poap	Configure poap event logs
category	Configure poap event logs for category
fc2	Configure poap event logs for category FC2
rx	(Optional) Configure poap event logs for FC2 Rx frames
brief	(Optional) Configure brief poap event logs for FC2 Rx
detail	(Optional) Configure detail poap event logs for FC2 Rx
tx	(Optional) Configure poap event logs for FC2 Tx frames
brief1	(Optional) Configure brief poap event logs for FC2 Tx
detail1	(Optional) Configure detail poap event logs for FC2 Tx

Command Mode

- /exec

event-history poap category fc2

```
event-history poap no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
poap	Configure poap event logs
no	Disable poap event logs for category
category	Configure poap event logs for category
fc2	Configure poap event logs for category FC2
rx	(Optional) Configure poap event logs for FC2 Rx frames
brief	(Optional) Configure brief poap event logs for FC2 Rx
detail	(Optional) Configure detail poap event logs for FC2 Rx
tx	(Optional) Configure poap event logs for FC2 Tx frames
brief1	(Optional) Configure brief poap event logs for FC2 Tx
detail1	(Optional) Configure detail poap event logs for FC2 Tx

Command Mode

- /exec

event-history poap category mts

```
event-history poap category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
poap	Configure poap event logs
category	Configure poap event logs for category
mts	Configure poap event logs for category mts
rx	(Optional) Configure poap event logs for mts Rx frames
brief	(Optional) Configure brief poap event logs for mts Rx
detail	(Optional) Configure detail poap event logs for mts Rx
tx	(Optional) Configure poap event logs for mts Tx frames
brief1	(Optional) Configure brief poap event logs for mts Tx
detail1	(Optional) Configure detail poap event logs for mts Tx

Command Mode

- /exec

event-history poap category mts

```
event-history poap no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
poap	Configure poap event logs
no	Disable poap event logs for category
category	Configure poap event logs for category
mts	Configure poap event logs for category mts
rx	(Optional) Configure poap event logs for mts Rx frames
brief	(Optional) Configure brief poap event logs for mts Rx
detail	(Optional) Configure detail poap event logs for mts Rx
tx	(Optional) Configure poap event logs for mts Tx frames
brief1	(Optional) Configure brief poap event logs for mts Tx
detail1	(Optional) Configure detail poap event logs for mts Tx

Command Mode

- /exec

event-history port-profile category all

event-history port-profile [no] category all

Syntax Description

event-history	switch wide event history configuration
port-profile	Configure port-profile event logs
category	Configure port-profile event logs for category
no	(Optional) Disable port-profile event logs for category
all	Configure port-profile event logs for category all events

Command Mode

- /exec

event-history port-profile category mts

```
event-history port-profile [ no ] category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
port-profile	Configure port-profile event logs
no	(Optional) Disable port-profile event logs for category
category	Configure port-profile event logs for category
mts	Configure port-profile event logs for category mts
rx	(Optional) Configure port-profile event logs for mts Rx frames
brief	(Optional) Configure brief port-profile event logs for mts Rx
detail	(Optional) Configure detail port-profile event logs for mts Rx
tx	(Optional) Configure port-profile event logs for mts Tx frames
brief1	(Optional) Configure brief port-profile event logs for mts Tx
detail1	(Optional) Configure detail port-profile event logs for mts Tx

Command Mode

- /exec

event-history port-security category all

event-history port-security category all

Syntax Description

event-history	switch wide event history configuration
port-security	Configure port-security event logs
category	Configure port-security event logs for category
all	Configure port-security event logs for category all events

Command Mode

- /exec

event-history port-security category all

event-history port-security no category all

Syntax Description

event-history	switch wide event history configuration
port-security	Configure port-security event logs
no	Disable port-security event logs for category
category	Configure port-security event logs for category
all	Configure port-security event logs for category all events

Command Mode

- /exec

event-history port-security category fc2

```
event-history port-security category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
port-security	Configure port-security event logs
category	Configure port-security event logs for category
fc2	Configure port-security event logs for category FC2
rx	(Optional) Configure port-security event logs for FC2 Rx frames
brief	(Optional) Configure brief port-security event logs for FC2 Rx
detail	(Optional) Configure detail port-security event logs for FC2 Rx
tx	(Optional) Configure port-security event logs for FC2 Tx frames
brief1	(Optional) Configure brief port-security event logs for FC2 Tx
detail1	(Optional) Configure detail port-security event logs for FC2 Tx

Command Mode

- /exec

event-history port-security category fc2

```
event-history port-security no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
port-security	Configure port-security event logs
no	Disable port-security event logs for category
category	Configure port-security event logs for category
fc2	Configure port-security event logs for category FC2
rx	(Optional) Configure port-security event logs for FC2 Rx frames
brief	(Optional) Configure brief port-security event logs for FC2 Rx
detail	(Optional) Configure detail port-security event logs for FC2 Rx
tx	(Optional) Configure port-security event logs for FC2 Tx frames
brief1	(Optional) Configure brief port-security event logs for FC2 Tx
detail1	(Optional) Configure detail port-security event logs for FC2 Tx

Command Mode

- /exec

event-history port-security category mts

```
event-history port-security category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
port-security	Configure port-security event logs
category	Configure port-security event logs for category
mts	Configure port-security event logs for category mts
rx	(Optional) Configure port-security event logs for mts Rx frames
brief	(Optional) Configure brief port-security event logs for mts Rx
detail	(Optional) Configure detail port-security event logs for mts Rx
tx	(Optional) Configure port-security event logs for mts Tx frames
brief1	(Optional) Configure brief port-security event logs for mts Tx
detail1	(Optional) Configure detail port-security event logs for mts Tx

Command Mode

- /exec

event-history port-security category mts

event-history port-security no category mts [{ rx [{ brief | detail }] | tx [{ brief1 | detail1 }] }]

Syntax Description

event-history	switch wide event history configuration
port-security	Configure port-security event logs
no	Disable port-security event logs for category
category	Configure port-security event logs for category
mts	Configure port-security event logs for category mts
rx	(Optional) Configure port-security event logs for mts Rx frames
brief	(Optional) Configure brief port-security event logs for mts Rx
detail	(Optional) Configure detail port-security event logs for mts Rx
tx	(Optional) Configure port-security event logs for mts Tx frames
brief1	(Optional) Configure brief port-security event logs for mts Tx
detail1	(Optional) Configure detail port-security event logs for mts Tx

Command Mode

- /exec

event-history port_client category all

event-history port_client category all

Syntax Description

event-history	switch wide event history configuration
port_client	Configure port_client event logs
category	Configure port_client event logs for category
all	Configure port_client event logs for category all events

Command Mode

- /exec

event-history port_client category all

event-history port_client no category all

Syntax Description

event-history	switch wide event history configuration
port_client	Configure port_client event logs
no	Disable port_client event logs for category
category	Configure port_client event logs for category
all	Configure port_client event logs for category all events

Command Mode

- /exec

event-history port_client category fc2

```
event-history port_client category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
port_client	Configure port_client event logs
category	Configure port_client event logs for category
fc2	Configure port_client event logs for category FC2
rx	(Optional) Configure port_client event logs for FC2 Rx frames
brief	(Optional) Configure brief port_client event logs for FC2 Rx
detail	(Optional) Configure detail port_client event logs for FC2 Rx
tx	(Optional) Configure port_client event logs for FC2 Tx frames
brief	(Optional) Configure brief port_client event logs for FC2 Tx
detail	(Optional) Configure detail port_client event logs for FC2 Tx

Command Mode

- /exec

event-history port_client category fc2

```
event-history port_client no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
port_client	Configure port_client event logs
no	Disable port_client event logs for category
category	Configure port_client event logs for category
fc2	Configure port_client event logs for category FC2
rx	(Optional) Configure port_client event logs for FC2 Rx frames
brief	(Optional) Configure brief port_client event logs for FC2 Rx
detail	(Optional) Configure detail port_client event logs for FC2 Rx
tx	(Optional) Configure port_client event logs for FC2 Tx frames
brief	(Optional) Configure brief port_client event logs for FC2 Tx
detail	(Optional) Configure detail port_client event logs for FC2 Tx

Command Mode

- /exec

event-history port_client category mts

```
event-history port_client category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
port_client	Configure port_client event logs
category	Configure port_client event logs for category
mts	Configure port_client event logs for category mts
rx	(Optional) Configure port_client event logs for mts Rx frames
brief	(Optional) Configure brief port_client event logs for mts Rx
detail	(Optional) Configure detail port_client event logs for mts Rx
tx	(Optional) Configure port_client event logs for mts Tx frames
brief	(Optional) Configure brief port_client event logs for mts Tx
detail	(Optional) Configure detail port_client event logs for mts Tx

Command Mode

- /exec

event-history port_client category mts

```
event-history port_client no category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
port_client	Configure port_client event logs
no	Disable port_client event logs for category
category	Configure port_client event logs for category
mts	Configure port_client event logs for category mts
rx	(Optional) Configure port_client event logs for mts Rx frames
brief	(Optional) Configure brief port_client event logs for mts Rx
detail	(Optional) Configure detail port_client event logs for mts Rx
tx	(Optional) Configure port_client event logs for mts Tx frames
brief	(Optional) Configure brief port_client event logs for mts Tx
detail	(Optional) Configure detail port_client event logs for mts Tx

Command Mode

- /exec

event-history private-vlan category all

event-history private-vlan [no] category all

Syntax Description

event-history	switch wide event history configuration
private-vlan	Configure private VLAN event logs
no	(Optional) Disable private VLAN logs for category
category	Configure private VLAN event logs for category
all	Configure private VLAN event logs for category all events

Command Mode

- /exec

event-history private-vlan category mts

event-history private-vlan [no] category mts [rx [{ brief | detail }]]

Syntax Description

event-history	switch wide event history configuration
private-vlan	Configure private VLAN event logs
no	(Optional) Disable private VLAN logs for category
category	Configure private VLAN event logs for category
mts	Configure private VLAN event logs for category mts
rx	(Optional) Configure private VLAN event logs for mts Rx frames
brief	(Optional) Configure brief private VLAN event logs for mts Rx
detail	(Optional) Configure detail private VLAN event logs for mts Rx

Command Mode

- /exec

event-history private-vlan category mts

event-history private-vlan [no] category mts [tx [{ brief | detail }]]

Syntax Description

event-history	switch wide event history configuration
private-vlan	Configure private VLAN event logs
no	(Optional) Disable private VLAN logs for category
category	Configure private VLAN event logs for category
mts	Configure private VLAN event logs for category mts
tx	(Optional) Configure private VLAN event logs for mts Tx frames
brief	(Optional) Configure brief private VLAN event logs for mts Tx
detail	(Optional) Configure detail private VLAN event logs for mts Tx

Command Mode

- /exec

event-history sensor

```
event-history sensor { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ] | no category
{ all | mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ] } }
```

Syntax Description

event-history	switch wide event history configuration
sensor	Configure sensor USD event logs
category	Configure sensor USD event logs for category
all	Configure sensor USD event logs for category all events
mts	Configure sensor USD event logs for category mts
rx	(Optional) Configure sensor USD event logs for mts Rx frames
brief	(Optional) Configure brief sensor USD event logs for mts Rx
detail	(Optional) Configure detail sensor USD event logs for mts Rx
tx	(Optional) Configure sensor USD event logs for mts Tx frames
brief	(Optional) Configure brief sensor USD event logs for mts Tx
detail	(Optional) Configure detail sensor USD event logs for mts Tx
no	Disable sensor USD event logs for category
category	Configure sensor USD event logs for category
all	Configure sensor USD event logs for category all events
mts	Configure sensor USD event logs for category mts
rx	(Optional) Configure sensor USD event logs for mts Rx frames
brief	(Optional) Configure brief sensor USD event logs for mts Rx
detail	(Optional) Configure detail sensor USD event logs for mts Rx
tx	(Optional) Configure sensor USD event logs for mts Tx frames
brief	(Optional) Configure brief sensor USD event logs for mts Tx
detail	(Optional) Configure detail sensor USD event logs for mts Tx

Command Mode

- /exec

event-history session-mgr category all

event-history session-mgr category all

Syntax Description

event-history	switch wide event history configuration
session-mgr	Configure session-mgr event logs
category	Configure session-mgr event logs for category
all	Configure session-mgr event logs for category all events

Command Mode

- /exec

event-history session-mgr category all

event-history session-mgr no category all

Syntax Description

event-history	switch wide event history configuration
session-mgr	Configure session-mgr event logs
no	Disable session-mgr event logs for category
category	Configure session-mgr event logs for category
all	Configure session-mgr event logs for category all events

Command Mode

- /exec

event-history session-mgr category mts

```
event-history session-mgr category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
session-mgr	Configure session-mgr event logs
category	Configure session-mgr event logs for category
mts	Configure session-mgr event logs for category mts
rx	(Optional) Configure session-mgr event logs for mts Rx frames
brief	(Optional) Configure brief session-mgr event logs for mts Rx
detail	(Optional) Configure detail session-mgr event logs for mts Rx
tx	(Optional) Configure session-mgr event logs for mts Tx frames
brief1	(Optional) Configure brief session-mgr event logs for mts Tx
detail1	(Optional) Configure detail session-mgr event logs for mts Tx

Command Mode

- /exec

event-history session-mgr category mts

```
event-history session-mgr no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
session-mgr	Configure session-mgr event logs
no	Disable session-mgr event logs for category
category	Configure session-mgr event logs for category
mts	Configure session-mgr event logs for category mts
rx	(Optional) Configure session-mgr event logs for mts Rx frames
brief	(Optional) Configure brief session-mgr event logs for mts Rx
detail	(Optional) Configure detail session-mgr event logs for mts Rx
tx	(Optional) Configure session-mgr event logs for mts Tx frames
brief1	(Optional) Configure brief session-mgr event logs for mts Tx
detail1	(Optional) Configure detail session-mgr event logs for mts Tx

Command Mode

- /exec

event-history sflow

```
event-history sflow { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] } | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

Syntax Description

event-history	switch wide event history configuration
sflow	Configure sFlow event logs
category	Configure sFlow event logs for category
all	Configure sFlow event logs for category all events
mts	Configure sFlow event logs for category mts
rx	(Optional) Configure sFlow event logs for mts Rx frames
brief	(Optional) Configure brief sFlow event logs for mts Rx
detail	(Optional) Configure detail sFlow event logs for mts Rx
tx	(Optional) Configure sFlow event logs for mts Tx frames
brief1	(Optional) Configure brief sFlow event logs for mts Tx
detail1	(Optional) Configure detail sFlow event logs for mts Tx
no	Disable sFlow event logs for category
category	Configure sFlow event logs for category
all	Configure sFlow event logs for category all events
mts	Configure sFlow event logs for category mts
rx	(Optional) Configure sFlow event logs for mts Rx frames
brief1	(Optional) Configure brief sFlow event logs for mts Rx
detail1	(Optional) Configure detail sFlow event logs for mts Rx
tx	(Optional) Configure sFlow event logs for mts Tx frames
brief2	(Optional) Configure brief sFlow event logs for mts Tx
detail2	(Optional) Configure detail sFlow event logs for mts Tx

Command Mode

- /exec

event-history snmp

```
event-history snmp { category { all | mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ] | no category
{ all | mts [ { rx [ { brief1 | detail1 } ] | tx [ { brief2 | detail2 } ] } ] } }
```

Syntax Description

event-history	switch wide event history configuration
snmp	Configure SNMP event logs
category	Configure SNMP event logs for category
all	Configure SNMP event logs for category all events
mts	Configure snmp event logs for category MTS
rx	(Optional) Configure snmp event logs for MTS Rx frames
brief	(Optional) Configure brief SNMP event logs for MTS Rx
detail	(Optional) Configure detail SNMP event logs for MTS Rx
tx	(Optional) Configure SNMP event logs for MTS Tx frames
brief1	(Optional) Configure brief SNMP event logs for MTS Tx
detail1	(Optional) Configure detail snmp event logs for MTS Tx
no	Disable SNMP event logs for category
category	Configure SNMP event logs for category
all	Configure SNMP event logs for category all events
mts	Configure snmp event logs for category MTS
rx	(Optional) Configure snmp event logs for MTS Rx frames
brief1	(Optional) Configure brief SNMP event logs for MTS Rx
detail1	(Optional) Configure detail SNMP event logs for MTS Rx
tx	(Optional) Configure SNMP event logs for MTS Tx frames
brief2	(Optional) Configure brief SNMP event logs for MTS Tx
detail2	(Optional) Configure detail snmp event logs for MTS Tx

Command Mode

- /exec

event-history spanning-tree category all

event-history spanning-tree category all

Syntax Description

event-history	switch wide event history configuration
spanning-tree	Configure stp event logs
category	Configure stp event logs for category
all	Configure stp event logs for category all events

Command Mode

- /exec

event-history stripcl category all

event-history stripcl category all

Syntax Description

event-history	switch wide event history configuration
stripcl	Configure stripcl event logs
category	Configure stripcl event logs for category
all	Configure stripcl event logs for category all events

Command Mode

- /exec

event-history stripcl category all

event-history stripcl no category all

Syntax Description

event-history	switch wide event history configuration
stripcl	Configure stripcl event logs
no	Disable stripcl event logs for category
category	Configure stripcl event logs for category
all	Configure stripcl event logs for category all events

Command Mode

- /exec

event-history stripcl category mts

```
event-history stripcl category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
stripcl	Configure stripcl event logs
category	Configure stripcl event logs for category
mts	Configure stripcl event logs for category mts
rx	(Optional) Configure stripcl event logs for mts Rx frames
brief	(Optional) Configure brief stripcl event logs for mts Rx
detail	(Optional) Configure detail stripcl event logs for mts Rx
tx	(Optional) Configure stripcl event logs for mts Tx frames
brief	(Optional) Configure brief stripcl event logs for mts Tx
detail	(Optional) Configure detail stripcl event logs for mts Tx

Command Mode

- /exec

event-history tamnw category all

event-history tamnw category all

Syntax Description

event-history	switch wide event history configuration
tamnw	Configure tamnw event logs
category	Configure tamnw event logs for category
all	Configure tamnw event logs for category all events

Command Mode

- /exec

event-history tamnw category all

event-history tamnw no category all

Syntax Description

event-history	switch wide event history configuration
tamnw	Configure tamnw event logs
no	Disable tamnw event logs for category
category	Configure tamnw event logs for category
all	Configure tamnw event logs for category all events

Command Mode

- /exec

event-history tamnw category fc2

```
event-history tamnw category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
tamnw	Configure tamnw event logs
category	Configure tamnw event logs for category
fc2	Configure tamnw event logs for category FC2
rx	(Optional) Configure tamnw event logs for FC2 Rx frames
brief	(Optional) Configure brief tamnw event logs for FC2 Rx
detail	(Optional) Configure detail tamnw event logs for FC2 Rx
tx	(Optional) Configure tamnw event logs for FC2 Tx frames
brief	(Optional) Configure brief tamnw event logs for FC2 Tx
detail	(Optional) Configure detail tamnw event logs for FC2 Tx

Command Mode

- /exec

event-history tamnw category fc2

```
event-history tamnw no category fc2 [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
tamnw	Configure tamnw event logs
no	Disable tamnw event logs for category
category	Configure tamnw event logs for category
fc2	Configure tamnw event logs for category FC2
rx	(Optional) Configure tamnw event logs for FC2 Rx frames
brief	(Optional) Configure brief tamnw event logs for FC2 Rx
detail	(Optional) Configure detail tamnw event logs for FC2 Rx
tx	(Optional) Configure tamnw event logs for FC2 Tx frames
brief	(Optional) Configure brief tamnw event logs for FC2 Tx
detail	(Optional) Configure detail tamnw event logs for FC2 Tx

Command Mode

- /exec

event-history tamnw category mts

event-history tamnw category mts [{ rx [{ brief | detail }] | tx [{ brief | detail }] }]

Syntax Description

event-history	switch wide event history configuration
tamnw	Configure tamnw event logs
category	Configure tamnw event logs for category
mts	Configure tamnw event logs for category mts
rx	(Optional) Configure tamnw event logs for mts Rx frames
brief	(Optional) Configure brief tamnw event logs for mts Rx
detail	(Optional) Configure detail tamnw event logs for mts Rx
tx	(Optional) Configure tamnw event logs for mts Tx frames
brief	(Optional) Configure brief tamnw event logs for mts Tx
detail	(Optional) Configure detail tamnw event logs for mts Tx

Command Mode

- /exec

event-history tamnw category mts

```
event-history tamnw no category mts [ { rx [ { brief | detail } ] | tx [ { brief | detail } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
tamnw	Configure tamnw event logs
no	Disable tamnw event logs for category
category	Configure tamnw event logs for category
mts	Configure tamnw event logs for category mts
rx	(Optional) Configure tamnw event logs for mts Rx frames
brief	(Optional) Configure brief tamnw event logs for mts Rx
detail	(Optional) Configure detail tamnw event logs for mts Rx
tx	(Optional) Configure tamnw event logs for mts Tx frames
brief	(Optional) Configure brief tamnw event logs for mts Tx
detail	(Optional) Configure detail tamnw event logs for mts Tx

Command Mode

- /exec

event-history uddl category all

event-history uddl category all

Syntax Description

event-history	switch wide event history configuration
uddl	Configure uddl event logs
category	Configure uddl event logs for category
all	Configure uddl event logs for category all events

Command Mode

- /exec

event-history vdc category all

event-history vdc category all

Syntax Description

event-history	switch wide event history configuration
vdc	Configure vdc_mgr event logs
category	Configure vdc_mgr event logs for category
all	Configure vdc_mgr event logs for category all events

Command Mode

- /exec

event-history vdc category all

event-history vdc no category all

Syntax Description

event-history	switch wide event history configuration
vdc	Configure vdc_mgr event logs
no	Disable vdc_mgr event logs for category
category	Configure vdc_mgr event logs for category
all	Configure vdc_mgr event logs for category all events

Command Mode

- /exec

event-history vdc category mts

```
event-history vdc no category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
vdc	Configure vdc_mgr event logs
no	Disable vdc_mgr event logs for category
category	Configure vdc_mgr event logs for category
mts	Configure vdc_mgr event logs for category mts
rx	(Optional) Configure vdc_mgr event logs for mts Rx frames
brief	(Optional) Configure brief vdc_mgr event logs for mts Rx
detail	(Optional) Configure detail vdc_mgr event logs for mts Rx
tx	(Optional) Configure vdc_mgr event logs for mts Tx frames
brief1	(Optional) Configure brief vdc_mgr event logs for mts Tx
detail1	(Optional) Configure detail vdc_mgr event logs for mts Tx

Command Mode

- /exec

event-history xbar category all

event-history xbar category all

Syntax Description

event-history	switch wide event history configuration
xbar	Configure xbar event logs
category	Configure xbar event logs for category
all	Configure xbar event logs for category all events

Command Mode

- /exec

event-history xbar category all

event-history xbar no category all

Syntax Description

event-history	switch wide event history configuration
xbar	Configure xbar event logs
no	Disable xbar event logs for category
category	Configure xbar event logs for category
all	Configure xbar event logs for category all events

Command Mode

- /exec

event-history xbar category debug

event-history xbar category debug { demux | deque | flow | ha | init }

Syntax Description

event-history	switch wide event history configuration
xbar	Configure xbar event logs
category	Configure xbar event logs for category
debug	Configure xbar event logs for category debug
demux	Configure xbar event logs for category demux
deque	Configure xbar event logs for category deque
flow	Configure xbar event logs for category flow
ha	Configure xbar event logs for category HA
init	Configure xbar event logs for category init

Command Mode

- /exec

event-history xbar category debug

event-history xbar no category debug { demux | deque | flow | ha | init }

Syntax Description

event-history	switch wide event history configuration
xbar	Configure xbar event logs
no	Disable xbar event logs for category
category	Configure xbar event logs for category
debug	Configure xbar event logs for category debug
demux	Configure xbar event logs for category demux
deque	Configure xbar event logs for category deque
flow	Configure xbar event logs for category flow
ha	Configure xbar event logs for category HA
init	Configure xbar event logs for category init

Command Mode

- /exec

event-history xbar category mts

```
event-history xbar category mts [ { rx [ { brief | detail } ] | tx [ { brief1 | detail1 } ] } ]
```

Syntax Description

event-history	switch wide event history configuration
xbar	Configure xbar event logs
category	Configure xbar event logs for category
mts	Configure xbar event logs for category mts
rx	(Optional) Configure xbar event logs for mts Rx frames
brief	(Optional) Configure brief xbar event logs for mts Rx
detail	(Optional) Configure detail xbar event logs for mts Rx
tx	(Optional) Configure xbar event logs for mts Tx frames
brief1	(Optional) Configure brief xbar event logs for mts Tx
detail1	(Optional) Configure detail xbar event logs for mts Tx

Command Mode

- /exec

event-history xbar category mts

event-history xbar no category mts [{ rx [{ brief | detail }] | tx [{ brief1 | detail1 }] }]

Syntax Description

event-history	switch wide event history configuration
xbar	Configure xbar event logs
no	Disable xbar event logs for category
category	Configure xbar event logs for category
mts	Configure xbar event logs for category mts
rx	(Optional) Configure xbar event logs for mts Rx frames
brief	(Optional) Configure brief xbar event logs for mts Rx
detail	(Optional) Configure detail xbar event logs for mts Rx
tx	(Optional) Configure xbar event logs for mts Tx frames
brief1	(Optional) Configure brief xbar event logs for mts Tx
detail1	(Optional) Configure detail xbar event logs for mts Tx

Command Mode

- /exec

event-log-size

```
{ { [ eigrp ] event-log-size <size> } | { no [ eigrp ] event-log-size [ <size> ] } }
```

Syntax Description

no	Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
event-log-size	Set IP-EIGRP event log size
<i>size</i>	Event log size

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

event-logging

[no] [eigrp] event-logging

Syntax Description

no	(Optional) Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
event-logging	Log IP-EIGRP routing events

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

event

[no] event

Syntax Description

no	Negate a command or set its defaults
event	Configure an event specification

Command Mode

- /exec/configure/event-manager-applet

event application sub-system type

[no] event application [tag <tag_id>] sub-system <sub-system-id> type <event-type>

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
application	Application specific event
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
sub-system	Sub-system ID that will publish the application event
<i>sub-system-id</i>	Sub-system ID value
type	Event type within the specified sub-system
<i>event-type</i>	Event type value

Command Mode

- /exec/configure/event-manager-applet

event cli match

```
[no] event cli [ tag <tag_id> ] match <regex> [ count <countnum> [ time <interval> ] ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
cli	Create a cli event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
match	Enter cli regex to be used for matching
<i>regex</i>	CLI regex, use * to wildcard a token
count	(Optional) Enter an integer to be used as count
<i>countnum</i>	(Optional) Integer count
time	(Optional) Enter time interval within which the events need to happen
<i>interval</i>	(Optional) Time interval in seconds, 0 for indefinitely

Command Mode

- /exec/configure/event-manager-applet

event counter name entry-val entry-op

[no] event counter [tag <tag_id>] name <counter-name> entry-val <entry-val> entry-op <entry-op> [exit-val <exit-val> exit-op <exit-op>]

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
counter	Create a counter event
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
name	Enter the name of the counter
<i>counter-name</i>	Name of the counter
entry-val	Specify the counter entry conditions
<i>entry-val</i>	Specify the value for comparison with the counter value
entry-op	Specify the operator to be used for comparison
<i>entry-op</i>	Specify the comparison operator
exit-val	(Optional) Specify the counter exit conditions
<i>exit-val</i>	(Optional) Specify the value for comparison with the counter value
exit-op	(Optional) Specify the operator to be used for comparison
<i>exit-op</i>	(Optional) Specify the comparison operator

Command Mode

- /exec/configure/event-manager-applet

event fanabsent time

[no] event fanabsent [fan <fan-number>] time <time-interval>

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
fanabsent	Create fanabsent event specification
fan	(Optional) Optional. Enter fan number (optional arg)
<i>fan-number</i>	(Optional) Enter fan-number
time	Enter time
<i>time-interval</i>	Time in seconds fan can stay absent

Command Mode

- /exec/configure/event-manager-applet

event fanbad time

[no] event fanbad [fan <fan-number>] time <time-interval>

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
fanbad	Create fanbad event specification
fan	(Optional) Optional. Enter fan number (optional arg)
<i>fan-number</i>	(Optional) Enter fan-number
time	Enter time
<i>time-interval</i>	Time in seconds fan can stay bad

Command Mode

- /exec/configure/event-manager-applet

event gold module test testing-type scheduled consecutive-failure

```
event gold module { <module> | all } test { <name> } [ severity { minor | moderate | major } ] testing-type {
scheduled | monitoring } consecutive-failure <cnt> | no event gold module { <module> | all } test { <name>
}
```

Syntax Description

no	Negate a command or set its defaults
event	Configure an event specification
gold	Create a 'Diagnostic' event specification
module	Module keyword
<i>module</i>	Module Number
all	Select all module ID
test	Diagnostic test selection
<i>name</i>	Test name
severity	(Optional) Severity of failure
minor	(Optional) Minor failure
moderate	(Optional) Moderate failure
major	(Optional) Major failure
testing-type	Type of Diagnostic test
scheduled	Scheduled Test
monitoring	Monitoring Test
consecutive-failure	Consecutive number of times failure has occurred
<i>cnt</i>	Failure count

Command Mode

- /exec/configure/event-manager-applet

event interface name parameter entry-val entry-op entry-type poll-interval

```
[no] event interface [ tag <tag_id> ] name <interface-name> parameter <counter-name> entry-val <entry-val>
entry-op { en_gt | en_ge | en_eq | en_ne | en_lt | en_le } entry-type { en_value | en_increment | en_rate }
poll-interval <poll-int-val> [ exit-comb { or | and } ] [ exit-val <exit-val> exit-op { ex_gt | ex_ge | ex_eq |
ex_ne | ex_lt | ex_le } exit-type { ex_value | ex_increment | ex_rate } ] [ exit-time <exit-time-val> ] [ exit-event
{ false | true } ] [ average-factor <avg-factor-val> ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
interface	Interface event
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
name	Interface name
<i>interface-name</i>	Interface name string
parameter	Interface counter to monitor
<i>counter-name</i>	Name of the interface counter
entry-val	Counter value be compared to raise interface event
<i>entry-val</i>	Entry counter value
entry-op	Entry comparison operator
en_gt	Greater than
en_ge	Greater than or equal to
en_eq	Equal to
en_ne	Not equal to
en_lt	Less than
en_le	Less than or equal to
entry-type	Entry comparison type
en_value	Entry-val specifies an absolute value
en_increment	Entry-val specifies an increment
en_rate	Entry-val specifies the rate of change over a period

poll-interval	Interval between consecutive polls in seconds
exit-comb	(Optional) Exit combination operator for exit condition tests
or	(Optional) Either exit-op/exit-val or exit-time must exist
and	(Optional) Both exit-op/exit-val and exit-time must exist
exit-val	(Optional) Exit counter value for interface event
<i>exit-val</i>	(Optional) Exit value
exit-op	(Optional) Exit comparison operator
ex_gt	(Optional) Greater than
ex_ge	(Optional) Greater than or equal to
ex_eq	(Optional) Equal to
ex_ne	(Optional) Not equal to
ex_lt	(Optional) Less than
ex_le	(Optional) Less than or equal to
exit-type	(Optional) Exit comparison type
ex_value	(Optional) Exit-val specifies an absolute value
ex_increment	(Optional) Exit-val specifies an increment
ex_rate	(Optional) Exit-val specifies the rate of change over a period
exit-time	(Optional) Time before event monitoring is reenabled
exit-event	(Optional) Raise an exit event upon exit
false	(Optional) Do not raise an exit event upon exit
true	(Optional) Raise an exit event upon exit
average-factor	(Optional) Period used for rate based calculations
<i>avg-factor-val</i>	(Optional) Average factor value

Command Mode

- /exec/configure/event-manager-applet

event internal-link-flap count

[no] event internal-link-flap count <countnum> [time <interval>]

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
internal-link-flap	Create a 'internal-link-flap' event specification
count	Enter an integer to be used as count
<i>countnum</i>	Integer count
time	(Optional) Enter time interval within which the events need to happen
<i>interval</i>	(Optional) Time interval in seconds

Command Mode

- /exec/configure/event-manager-applet

event manager applet

[no] event manager applet <name> [module <module-id>] [override <override-name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Event Manager commands
manager	Event Manager commands
applet	Create/Modify an Event Manager Policy
<i>name</i>	Name of policy (cannot have underscore in first two characters)
module	(Optional) Restrict policy to a module
<i>module-id</i>	(Optional)
override	(Optional) Override a system policy
<i>override-name</i>	(Optional) Name of the system policy to override - should begin with double underscore

Command Mode

- /exec/configure

event manager clear counter

event manager clear counter <counter-name>

Syntax Description

event	Event Manager commands
manager	Event Manager commands
clear	Clear event manager information
counter	Clear the value of a counter
<i>counter-name</i>	Name of the counter

Command Mode

- /exec

event manager clear history events

event manager clear history events

Syntax Description

event	Event Manager commands
manager	Event Manager commands
clear	Clear event manager information
history	Clear the stored/archived information
events	Clear all the stored/archived event history for this VDC

Command Mode

- /exec

event manager command maximum-timeout

event manager command maximum-timeout

Syntax Description

event	Event Manager commands
manager	Event Manager commands
command	Cli's configured as policy actions
maximum-timeout	Allot maximum timeout for cli action execution

Command Mode

- /exec

event manager environment

event manager environment <varname> <varvalue> | no event manager environment <varname>

Syntax Description

no	Negate a command or set its defaults
event	Event Manager commands
manager	Event Manager commands
environment	Configure an environment variable
<i>varname</i>	Name of the environment variable
<i>varvalue</i>	Value of the environment variable

Command Mode

- /exec/configure

event manager policy

event manager policy <name>

Syntax Description

event	Event Manager commands
manager	Event Manager commands
policy	Register a script policy and activate it
<i>name</i>	Name of the script policy file

Command Mode

- /exec/configure

event manager run

```
event manager run <policy-name> [ <arg1> [ <arg2> [ <arg3> [ <arg4> [ <arg5> [ <arg6> [ <arg7> [ <arg8>
[ <arg9> [ <arg10> ]]]]]]]]]]
```

Syntax Description

event	Event Manager commands
manager	Event Manager commands
run	Trigger/run an event manager policy manually
<i>policy-name</i>	Name of the policy to be triggered-cannot specify default system policy
<i>arg1</i>	(Optional) User specified data value 1
<i>arg2</i>	(Optional) User specified data value 2
<i>arg3</i>	(Optional) User specified data value 3
<i>arg4</i>	(Optional) User specified data value 4
<i>arg5</i>	(Optional) User specified data value 5
<i>arg6</i>	(Optional) User specified data value 6
<i>arg7</i>	(Optional) User specified data value 7
<i>arg8</i>	(Optional) User specified data value 8
<i>arg9</i>	(Optional) User specified data value 9
<i>arg10</i>	(Optional) User specified data value 10

Command Mode

- /exec

event manager script

[no] event manager script <name> [override <override-name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Event Manager commands
manager	Event Manager commands
script	Create/Modify an Event Manager Policy
<i>name</i>	Name of the policy - cannot have underscore in first two characters
override	(Optional) Have this policy override a system policy
<i>override-name</i>	(Optional) Name of the system policy to override - should begin with double underscore

Command Mode

- /exec/configure

event memory

[no] event memory { minor | severe | critical }

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
memory	Create memory thresholds event specification
minor	Minor alert
severe	Severe alert
critical	Critical alert

Command Mode

- /exec/configure/event-manager-applet

event module-failure type module count

[no] event module-failure [tag <tag_id>] type <err-name> module { all | <module> } count <countnum> [time <interval>]

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
module-failure	Create a 'module-failure' event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
type	Enter an error type
<i>err-name</i>	
module	Enter a module number
all	All modules
<i>module</i>	Enter module number
count	Enter an integer to be used as count
<i>countnum</i>	Integer count
time	(Optional) Enter time interval within which the events need to happen
<i>interval</i>	(Optional) Time interval in seconds

Command Mode

- /exec/configure/event-manager-applet

event module status module1

```
[no] event module [ tag <tag_id> ] status { online | offline | any } module1 { all | <module> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
module	Create a 'module' event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
status	Status event
online	Online status
offline	Offline status
any	Online or offline status
module1	Enter a module number
all	All modules
<i>module</i>	Enter module number

Command Mode

- /exec/configure/event-manager-applet

event neighbor-discovery

[no] event [tag <tag_id>] neighbor-discovery

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
neighbor-discovery	Show CDP new neighbors

Command Mode

- /exec/configure/event-manager-applet

event none

[no] event none [tag <tag_id>]

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
none	Manually run policy event with none
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name

Command Mode

- /exec/configure/event-manager-applet

event oir fan

[no] event oir [tag <tag_id>] fan { insert | remove | anyoir } [<fannum>]

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
oir	Create Online-Insertion-Removal event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
fan	Fan OIR
insert	OIR insert
remove	OIR remove
anyoir	any OIR (Either insert or remove)
<i>fannum</i>	(Optional) Optional. Enter Fan number.

Command Mode

- /exec/configure/event-manager-applet

event oir module

[no] event oir [tag <tag_id>] module { insert | remove | anyoir } [<module>]

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
oir	Create Online-Insertion-Removal event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
module	Module OIR
insert	OIR insert
remove	OIR remove
anyoir	any OIR (Either insert or remove)
<i>module</i>	(Optional) Optional. Enter module number

Command Mode

- /exec/configure/event-manager-applet

event oir powersupply

[no] event oir [tag <tag_id>] powersupply { insert | remove | anyoir } [<powersupnum>]

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
oir	Create Online-Insertion-Removal event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
powersupply	powersupply OIR
insert	OIR insert
remove	OIR remove
anyoir	any OIR (Either insert or remove)
<i>powersupnum</i>	(Optional) Optional. Enter powersupply number

Command Mode

- /exec/configure/event-manager-applet

event policy-default count

[no] event policy-default count <countnum> [time <interval>]

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
policy-default	Use the event in the system policy being overridden
count	Enter an integer to be used as count
<i>countnum</i>	Integer count
time	(Optional) Enter time interval within which the events need to happen
<i>interval</i>	(Optional) Time interval in seconds

Command Mode

- /exec/configure/event-manager-applet

event poweroverbudget

[no] event poweroverbudget

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
poweroverbudget	Create poweroverbudget event specification

Command Mode

- /exec/configure/event-manager-applet

event snmp oid get-type exact entry-op entry-val poll-interval

```
[no] event snmp [ tag <tag_id> ] oid <oid-val> get-type { exact | next } entry-op { ent_gt | ent_ge | ent_eq |
ent_ne | ent_lt | ent_le } entry-val <entry-val> [ { exit-comb { or | and } exit-op { ex_gt | ex_ge | ex_eq | ex_ne
| ex_lt | ex_le } exit-val <exit-val> exit-time <exit-time-val> } | { exit-op1 { ex_gt1 | ex_ge1 | ex_eq1 | ex_ne1
| ex_lt1 | ex_le1 } exit-val1 <exit-val1> } ] poll-interval <poll-int-val>
```

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
snmp	Create a 'snmp' event specification.
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
oid	oid of data element in dot notation.
<i>oid-val</i>	oid of data element in dot notation.
get-type	The type of SNMP get operation.
exact	exact
next	next
entry-op	entry comparison operator.
ent_gt	greater than
ent_ge	greater than or equal to
ent_eq	equal to
ent_ne	not equal to
ent_lt	less than
ent_le	less than or equal to
entry-val	value to compare with the current polled value
<i>entry-val</i>	value to compare with the current polled value
exit-comb	(Optional) exit criterion combination
or	(Optional) logical OR
and	(Optional) logical AND
exit-op	(Optional) exit comparison operator.

ex_gt	(Optional) greater than
ex_ge	(Optional) greater than or equal to
ex_eq	(Optional) equal to
ex_ne	(Optional) not equal to
ex_lt	(Optional) less than
ex_le	(Optional) less than or equal to
exit-val	(Optional) value to compare with the current polled value
<i>exit-val</i>	(Optional) value to compare with the current polled value
exit-op1	(Optional) exit comparison operator.
ex_gt1	(Optional) greater than
ex_ge1	(Optional) greater than or equal to
ex_eq1	(Optional) equal to
ex_ne1	(Optional) not equal to
ex_lt1	(Optional) less than
ex_le1	(Optional) less than or equal to
exit-val1	(Optional) value to compare with the current polled value
<i>exit-val1</i>	(Optional) value to compare with the current polled value
exit-time	(Optional) exit time
<i>exit-time-val</i>	(Optional) exit time in seconds
poll-interval	polling interval
<i>poll-int-val</i>	polling interval in seconds

Command Mode

- /exec/configure/event-manager-applet

event storm-control

[no] event storm-control

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
storm-control	Create a storm control event specification

Command Mode

- /exec/configure/event-manager-applet

event syslog pattern

[no] event syslog [tag <tag_id>] [occurs <num-occurrences>] [period <period-value>] [priority [<i0> | alerts | critical | debugging | emergencies | errors | informational | notifications | warnings]] pattern <regex>

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
syslog	Create a syslog event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
occurs	(Optional) Enter an integer to be used for number of occurrences
<i>num-occurrences</i>	(Optional) Integer count
period	(Optional) Enter time interval within which the events need to happen
<i>period-value</i>	(Optional) Time interval in seconds, 0 for indefinitely
priority	(Optional) Priority of the log message
<i>i0</i>	(Optional) Enter priority of the log message
alerts	(Optional) Alert log message
critical	(Optional) Critical log message
debugging	(Optional) Debugging log message
emergencies	(Optional) Emergency log message
errors	(Optional) Error log message
informational	(Optional) Informational log message
notifications	(Optional) Notifications log message
warnings	(Optional) Warning log message
pattern	Enter regex to be used for matching
<i>regex</i>	SYSLOG regex

Command Mode

- /exec/configure/event-manager-applet

event sysmgr memory major minor clear

[no] event sysmgr memory [module <module>] major <i0> minor <i1> clear <i2>

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
sysmgr	system manager related events
memory	memory alert event
module	(Optional) Optional. Enter module number
<i>module</i>	(Optional) Enter module-number
major	set major memory threshold
<i>i0</i>	major memory threshold
minor	set minor memory threshold
<i>i1</i>	minor memory threshold
clear	set clear memory alert threshold
<i>i2</i>	clear memory threshold

Command Mode

- /exec/configure/event-manager-applet

event sysmgr switchover count time

[no] event sysmgr switchover count <countnum> time <interval>

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
sysmgr	System manager related events
switchover	Switchover related event
count	Number of switchovers after which event should be triggered
<i>countnum</i>	Integer count
time	Enter time interval within which the events need to happen
<i>interval</i>	Time interval in seconds

Command Mode

- /exec/configure/event-manager-applet

event temperature threshold

[no] event temperature [module <module>] [sensor <sensornum>] threshold { major | minor | any }

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
temperature	Create temperature event specification
module	(Optional) Optional. Enter module number (optional arg)
<i>module</i>	(Optional) Enter module-number
sensor	(Optional) Optional. Enter sensor number (optional arg)
<i>sensornum</i>	(Optional) Enter sensor number
threshold	Enter Major or Minor threshold
major	Major threshold
minor	Minor threshold
any	Major or Minor

Command Mode

- /exec/configure/event-manager-applet

event test match

```
[no] event test [ tag <tag_id> ] match <num> [ count <countnum> ] [ time <interval> ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
test	Create a 'test' event specification
match	Enter an integer to be used for matching
<i>num</i>	Integer value
count	(Optional) Enter an integer to be used as count
<i>countnum</i>	(Optional) Integer count
<i>time</i>	(Optional) <interval>
<i>interval</i>	(Optional) Time interval in seconds

Command Mode

- /exec/configure/event-manager-applet

event timer

[no] event timer [tag <tag_id>] { watchdog wtime <watchdog-time> | absolute atime <absolute-time> |
countdown ctime <countdown-time> | cron cron-entry <cron-time> } [name <timer_name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
event	Configure an event specification
timer	Create a timer event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
name	(Optional) name of the timer
<i>timer_name</i>	(Optional) Enter the timer name
watchdog	Watchdog timer event
wtime	Time period for watchdog
<i>watchdog-time</i>	<1-1924991999[.0-999]> Enter seconds[.milliseconds] value
absolute	Absolute timer event.
atime	epoch time for absolute. Try epochconverter online tool to get value
<i>absolute-time</i>	<1-1924991999[.0-999]> Enter seconds[.milliseconds] value
countdown	Countdown timer event
ctime	Time period for countdown
<i>countdown-time</i>	<1-1924991999[.0-999]> Enter seconds[.milliseconds] value
cron	Cron timer event
cron-entry	Cron entry string
<i>cron-time</i>	format: * * * * * => min hour dom month dow

Command Mode

- /exec/configure/event-manager-applet

event track state

event track [tag <tag_id>] <object-id> state { any | up | down } | no event track [tag <tag_id>] <object-id>

Syntax Description

no	Negate a command or set its defaults
event	Configure an event specification
track	Create a 'track' event specification
tag	(Optional) event tag identifier
<i>tag_id</i>	(Optional) tag name
<i>object-id</i>	Track objects
state	State of tracking object
any	Any state
down	Down state
up	Up state

Command Mode

- /exec/configure/event-manager-applet

evpn

[no] evpn

Syntax Description

no	(Optional) Negate a command or set its defaults
evpn	Enter EVPN configuration mode

Command Mode

- /exec/configure

evpn esi multihoming

[no] evpn esi multihoming

Syntax Description

no	(Optional) unconfigure the command
evpn	VxLAN evpn feature
esi	ESI based multihoming
multihoming	Multihoming feature

Command Mode

- /exec/configure/evpn-esi-multihoming

evpn multihoming core-tracking

[no] evpn multihoming core-tracking

Syntax Description

no	(Optional) Negate a command or set its defaults
evpn	VxLAN evpn feature
multihoming	VxLAN evpn multihoming
core-tracking	core interface tracking

Command Mode

- /exec/configure/if-port-channel /exec/configure/if-routing /exec/configure/if-vlan

evpn multisite border-gateway

evpn multisite border-gateway <site-id> | no evpn multisite border-gateway

Syntax Description

no	Unconfigure the command
evpn	EVPN
multisite	Multisite
border-gateway	Border-gateway
<i>site-id</i>	Multisite Site-Id

Command Mode

- /exec/configure

evpn multisite dci-tracking

[no] evpn multisite dci-tracking

Syntax Description

no	(Optional) Negate a command or set its defaults
evpn	VxLAN evpn feature
multisite	VxLAN evpn multisite
dci-tracking	dci interface tracking

Command Mode

- /exec/configure/if-port-channel /exec/configure/if-routing /exec/configure/if-vlan /exec/configure/if-ethernet /exec/configure/if-range

evpn multisite fabric-tracking

[no] evpn multisite fabric-tracking

Syntax Description

no	(Optional) Negate a command or set its defaults
evpn	VxLAN evpn feature
multisite	VxLAN evpn multisite
fabric-tracking	fabric interface tracking

Command Mode

- /exec/configure/if-port-channel /exec/configure/if-routing /exec/configure/if-vlan /exec/configure/if-ethernet /exec/configure/if-range

exceptionlog module syserr devid errtype errcode phylayer ports harderror

```
exceptionlog module <module> syserr <syserr> devid <id> errtype <type> errcode <code> phylayer <phy>
ports <list> harderror <hard> [ { desc <str> } ] [ { inband <intinband> } ]
```

Syntax Description

exceptionlog	Exception log
module	Enter a module number
<i>module</i>	Enter module number
syserr	Enter syserr
<i>syserr</i>	Syserr code
devid	Enter device id
<i>id</i>	Device id
errtype	Enter error type
<i>type</i>	Error type
errcode	Enter error code
<i>code</i>	Error code
phylayer	Enter phy layer
<i>phy</i>	Phy layer
ports	Enter failed ports
<i>list</i>	List of ports
harderror	Irrecoverable error?
<i>hard</i>	Error sub-category
desc	(Optional) Enter error description
<i>str</i>	(Optional) Error description
inband	(Optional) inband flag
<i>intinband</i>	(Optional) inband flag

Command Mode

- /exec

exclude access-list

[no] exclude access-list <acl-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
exclude	ACL to exclude from redirection
access-list	ITD access-list name
<i>acl-name</i>	ITD exclude ACL name

Command Mode

- /exec/configure/itd

exclude access-list

[no] exclude access-list <acl-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
exclude	Configure access-list to exclude from redirection
access-list	PLB access-list
<i>acl-name</i>	Access-list name

Command Mode

- /exec/configure/plb

exec-timeout

{ exec-timeout <i0> | no exec-timeout [<i0>] }

Syntax Description

no	Negate a command or set its defaults
exec-timeout	Configure exec timeout
<i>i0</i>	Enter timeout in minutes, 0 to disable

Command Mode

- /exec/configure/console

exec-timeout

{ exec-timeout <i0> | no exec-timeout [<i0>] }

Syntax Description

no	Negate a command or set its defaults
exec-timeout	Configure exec timeout
<i>i0</i>	Enter timeout in minutes, 0 to disable

Command Mode

- /exec/configure/line

existing-cli

{ existing-cli <line> | no existing-cli <line> }

Syntax Description

no	Negate a command or set its defaults
existing-cli	Specify the existing cli
<i>line</i>	existing cli definition separated by <space> <semi-colon> <space>

Command Mode

- /exec/configure/cli

exit

exit

Syntax Description

exit	Exit from command interpreter
------	-------------------------------

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp
/exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho
/exec/configure/ip-sla/http

exit

exit

Syntax Description

exit	Exit from command interpreter
------	-------------------------------

Command Mode

- /global

exp

[no] exp { default | <val> [<val> [<val> [<val> [<val> [<val> [<val> [<val>]]]]]]]] [default] }

Syntax Description

no	(Optional) Negate a command or set its defaults
exp	Set the experimental values allowed for this interface
default	Default all unconfigured exp to this interface
<i>val</i>	Enter up to 8 experimental values separated by white-spaces

Command Mode

- /exec/configure/tunnel-te/cbts-member

explicit-null

explicit-null [for <px-list>] [to <peer-px-list>] | no explicit-null

Syntax Description

no	Negate a command or set its defaults
explicit-null	Advertise Explicit Null label in place of Implicit Null
for	(Optional) Prefix list specifying controls on destination prefixes
<i>px-list</i>	(Optional) Name of prefix list
to	(Optional) Access-list specifying controls on LDP peers
<i>peer-px-list</i>	(Optional) Name of prefix list

Command Mode

- /exec/configure/ldp

explicit-path identifier

[no] explicit-path { identifier <id> | name <string> }

Syntax Description

no	(Optional) Negate a command or set its defaults
explicit-path	Configure explicit-path
identifier	Specify explicit path by number
<i>id</i>	Enter number
name	Specify explicit path by name
<i>string</i>	Enter name

Command Mode

- /exec/configure/te

export map

[no] export map <rmap-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
export	VRF export
map	Route-map based VRF export
<i>rmap-name</i>	Route-map name

Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

export vrf default map

[no] export vrf default [<prefix-limit>] map <rmap-name> [allow-vpn]

Syntax Description

no	(Optional) Negate a command or set its defaults
export	VRF export
vrf	Virtual Router Context
default	VRF name (default)
<i>prefix-limit</i>	(Optional) Maximum prefix limit
map	Route-map based VRF import
<i>rmap-name</i>	Route-map name
allow-vpn	(Optional) Allow re-importation of VPN imported routes

Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

exporter

[no] exporter <exportername>

Syntax Description

exporter	Add an Exporter to use to export records
<i>exportername</i>	Name of exporter

Command Mode

- /exec/configure/nfm-monitor



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fabric-soo

[no] fabric-soo { <ext-comm-soo-aa2nn4> | <ext-comm-soo-aa4nn2> }

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric-soo	Fabric Site of Origin
<i>ext-comm-soo-aa4nn2</i>	VPN extcommunity in aa4:fabric_id format
<i>ext-comm-soo-aa2nn4</i>	VPN extcommunity in aa:fabric_id format

Command Mode

- /exec/configure/router-bgp

fabric database auto-pull dci node-id

fabric database auto-pull dci node-id <mgmt-ip-address>

Syntax Description

fabric	Fabric
database	Fabric Database
auto-pull	Pull configuration
dci	DCI profile
node-id	management ip address of this node
<i>mgmt-ip-address</i>	IP address in CIDR format

Command Mode

- /exec

fabric database auto-pull dci vrf node-id

fabric database auto-pull dci vrf <vrf-name> node-id <mgmt-ip-address> [peer-id <peer-ip-address>]

Syntax Description

fabric	Fabric
database	Fabric Database
auto-pull	Pull configuration
dci	DCI profile
vrf	Display per-VRF information
<i>vrf-name</i>	VRF name
node-id	management ip address of this node
<i>mgmt-ip-address</i>	IP address in CIDR format
peer-id	(Optional) management ip address of peer
<i>peer-ip-address</i>	(Optional) IP address in CIDR format

Command Mode

- /exec

fabric database auto-pull vni interface

```
fabric database auto-pull { vni <vni-id> | dot1q <vlan-id> } interface <interface-id> [ { overwrite-vlan |
overwrite-bd } <ow-vlan-id> ]
```

Syntax Description

fabric	Fabric
database	Fabric Database
auto-pull	Pull configuration
vni	Pull ethernet-tag vni configuration
<i>vni-id</i>	
dot1q	Pull ethernet-tag dot1q configuration
<i>vlan-id</i>	
interface	Applied interface
<i>interface-id</i>	Name of interface
overwrite-vlan	(Optional) Overwrite the system generate vlan
overwrite-bd	(Optional) Overwrite the system generate bd
<i>ow-vlan-id</i>	(Optional)

Command Mode

- /exec

fabric database inherit-profile-map

{ fabric database inherit-profile-map <id> } | { no fabric database inherit-profile-map }

Syntax Description

no	Negate a command or set its defaults
fabric	Fabric
database	Configure Fabric Database
inherit-profile-map	Inherit a profile map. All non-global mappings will be inherited.
<i>id</i>	Profile Map ID

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-port-channel

fabric database internal vpc-update-count

[no] fabric database internal vpc-update-count <value> [reset]

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	
database	
internal	Internal information
vpc-update-count	Set auto-config vPC update counter
<i>value</i>	Set number auto-config vPC updates before checking for CPU yield
reset	(Optional) reset the outstanding counter

Command Mode

- /exec/configure

fabric database mobility-domain

[no] fabric database mobility-domain <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
database	Configure Fabric Database
mobility-domain	Tag to identify mobility domain name
<i>name</i>	Mobility Domain Name

Command Mode

- /exec/configure

fabric database override-profile

[no] fabric database override-profile <profilename>

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
database	Configure Fabric Database
override-profile	Override the network profile name
<i>profilename</i>	Enter the profile name to override network profile

Command Mode

- /exec/configure

fabric database override-vrf-profile

[no] fabric database override-vrf-profile <profilename>

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
database	Configure Fabric Database
override-vrf-profile	Override the VRF (partition) profile name
<i>profilename</i>	Enter the profile name to override VRF profile

Command Mode

- /exec/configure

fabric database profile-map

[no] fabric database profile-map <id>

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
database	Configure Fabric Database
profile-map	Configure a profile map
<i>id</i>	Profile Map ID

Command Mode

- /exec/configure

fabric database profile-map global

[no] fabric database profile-map global

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
database	Configure Fabric Database
profile-map	Configure a profile map
global	Global profile (apply to all interfaces)

Command Mode

- /exec/configure

fabric database refresh dot1q

fabric database refresh dot1q <vlan-id> [{ mobility-domain <name> | interface <interface-id> }]

Syntax Description

fabric	Fabric
database	Fabric Database
refresh	Refresh profile configuration
dot1q	Dot1Q Encapsulation
<i>vlan-id</i>	
interface	(Optional) Applied interface
<i>interface-id</i>	(Optional) Name of interface
mobility-domain	(Optional) Tag to identify mobility domain name
<i>name</i>	(Optional) Mobility Domain Name

Command Mode

- /exec

fabric database refresh vni

```
fabric database refresh { vni <vni-id> | include-vrf { <vrf-name> } }
```

Syntax Description

fabric	Fabric
database	Fabric Database
refresh	Refresh profile configuration
vni	Virtual Network Identifier
<i>vni-id</i>	
include-vrf	Include VRF name
<i>vrf-name</i>	VRF name

Command Mode

- /exec

fabric database static-host

[no] fabric database static-host

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
database	Fabric Database
static-host	Configure a static host

Command Mode

- /exec/configure

fabric database timer

[no] fabric database timer { aging | cleanup | recovery | re-add } <timeout>

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	
database	
timer	HMM timers
cleanup	Delay in minutes before profile is deleted
recovery	Delay in minutes before recovered profile is deleted
re-add	Delay in minutes before new client requests (after un-apply) are accepted
aging	Delay in minutes before profile is checked for aging
<i>timeout</i>	Set timeout in minutes

Command Mode

- /exec/configure

fabric database type bl-dci

[no] fabric database type bl-dci

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
database	Configure Fabric Database
type	Configure database type
bl-dci	Border Leaf - DCI

Command Mode

- /exec/configure

fabric database type cabling

[no] fabric database type cabling

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
database	Configure Fabric Database
type	Configure database type
cabling	Cable Management Database

Command Mode

- /exec/configure

fabric database type host

[no] fabric database type host

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
database	Configure Fabric Database
type	Configure database type
host	Host Database

Command Mode

- /exec/configure

fabric database type network

[no] fabric database type network

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
database	Configure Fabric Database
type	Configure database type
network	Network Database

Command Mode

- /exec/configure

fabric database type partition

[no] fabric database type partition

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
database	Configure Fabric Database
type	Configure database type
partition	Partition Database

Command Mode

- /exec/configure

fabric database type profile

[no] fabric database type profile

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
database	Configure Fabric Database
type	Configure database type
profile	Port or Switch Profile Database

Command Mode

- /exec/configure

fabric forwarding admin-distance

{ fabric forwarding admin-distance <distance> } | { no fabric forwarding admin-distance }

Syntax Description

no	Negate a command or set its defaults
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
admin-distance	Administrative distance for HMM host routes
<i>distance</i>	Set the administrative distance for HMM (default is 190)

Command Mode

- /exec/configure

fabric forwarding anycast-gateway-mac

{ fabric forwarding anycast-gateway-mac <mac-addr> } | { no fabric forwarding anycast-gateway-mac }

Syntax Description

no	Negate a command or set its defaults
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
anycast-gateway-mac	Anycast Gateway MAC of the Switch
<i>mac-addr</i>	MAC address

Command Mode

- /exec/configure

fabric forwarding dup-host-ip-addr-detection

```
{ fabric forwarding dup-host-ip-addr-detection <mmoves> <nsecs> | no fabric forwarding
dup-host-ip-addr-detection }
```

Syntax Description

no	Negate a command or set its defaults
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
dup-host-ip-addr-detection	To detect duplicate host address in n secs
<i>mmoves</i>	Set Number of host moves to be allowed in n secs. Default is 5
<i>nsecs</i>	Set the duplicate detection timeout in secs for host moves. Default is 180

Command Mode

- /exec/configure

fabric forwarding dup-host-recovery-timer recover-count

{ fabric forwarding dup-host-recovery-timer <timeout> recover-count <count> | no fabric forwarding dup-host-recovery-timer }

Syntax Description

no	Negate a command or set its defaults
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
dup-host-recovery-timer	Refresh the frozen duplicate host
<i>timeout</i>	Set the timeout in secs to refresh the duplicate host. Default is 30 secs
recover-count	Maximum number of refreshes
<i>count</i>	Set the maximum number of host refresh. Default is 5.

Command Mode

- /exec/configure

fabric forwarding dup-host-unfreeze-timer unfreeze-count

```
{ fabric forwarding dup-host-unfreeze-timer <timeout> unfreeze-count <count> | no fabric forwarding
dup-host-unfreeze-timer }
```

Syntax Description

no	Negate a command or set its defaults
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
dup-host-unfreeze-timer	Refresh the frozen duplicate host
<i>timeout</i>	Set the timeout in secs to refresh the duplicate host. Default is 180 secs
unfreeze-count	Maximum number of refreshes
<i>count</i>	Set the maximum number of host refresh

Command Mode

- /exec/configure

fabric forwarding limit-vlan-mac

[no] fabric forwarding limit-vlan-mac <max-limit>

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
limit-vlan-mac	Maximum number of end-hosts allowed to have the same (vlan, MAC) mapping in a given vrf (Default is 2048)
<i>max-limit</i>	Set max-limit

Command Mode

- /exec/configure

fabric forwarding mode anycast-gateway

{ fabric forwarding mode anycast-gateway } | { no fabric forwarding mode }

Syntax Description

no	Negate a command or set its defaults
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
mode	Forwarding Modes
anycast-gateway	Anycast Gateway Forwarding Mode

Command Mode

- /exec/configure/if-vlan /exec/configure/if-vlan-range

fabric forwarding selective-host-probe

[no] fabric forwarding selective-host-probe

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
selective-host-probe	Trigger unconditional host probe

Command Mode

- /exec/configure

fabric forwarding system-check ready

fabric forwarding system-check { ready | not-ready }

Syntax Description

fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
system-check	System check
ready	Set to ready
not-ready	Set to not ready

Command Mode

- /exec

fabric multicast event-history bgp

```
[no] fabric multicast event-history bgp { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
multicast	Configure multicast
event-history	Configure event-history buffer
bgp	BGP events for fabric multicast
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

fabric multicast event-history ha

[no] fabric multicast event-history ha { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
multicast	Configure multicast
event-history	Configure event-history buffer
ha	ha events for fabric multicast
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

fabric multicast event-history hmm

```
[no] fabric multicast event-history hmm { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
multicast	Configure multicast
event-history	Configure event-history buffer
hmm	HMM events for fabric multicast
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

fabric multicast event-history internal

[no] fabric multicast event-history internal { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
multicast	Configure multicast
event-history	Configure event-history buffer
internal	internal events for fabric multicast
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

fabric multicast event-history isis

```
[no] fabric multicast event-history isis { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
multicast	Configure multicast
event-history	Configure event-history buffer
isis	ISIS events for fabric multicast
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

fabric multicast event-history m2rib

[no] fabric multicast event-history m2rib { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
multicast	Configure multicast
event-history	Configure event-history buffer
m2rib	M2RIB events for fabric multicast
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

fabric multicast event-history m6rib

```
[no] fabric multicast event-history m6rib { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
multicast	Configure multicast
event-history	Configure event-history buffer
m6rib	M6RIB events for fabric multicast
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

fabric multicast event-history mrib

[no] fabric multicast event-history mrib { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
multicast	Configure multicast
event-history	Configure event-history buffer
mrib	MRIB events for fabric multicast
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

fabric multicast event-history pim

```
[no] fabric multicast event-history pim { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
multicast	Configure multicast
event-history	Configure event-history buffer
pim	PIM events for fabric multicast
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

fabric multicast event-history pim6

```
[no] fabric multicast event-history pim6 { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
fabric	Fabric
multicast	Configure multicast
event-history	Configure event-history buffer
pim6	PIM6 events for fabric multicast
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

failaction

```
[no] failaction { [ node { reassign | drop | least-bucket | per-bucket } ] | [ bucket { distribute } ] | [ cluster drop ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
failaction	ITD failaction
node	(Optional) ITD failaction node
reassign	(Optional) ITD failaction reassign
drop	(Optional) ITD failaction drop
least-bucket	(Optional) ITD failaction least-bucket node
per-bucket	(Optional) ITD failaction per-bucket node
bucket	(Optional) ITD failaction bucket reassign
distribute	(Optional) ITD failaction distribute reassign
cluster	(Optional) ITD failaction cluster

Command Mode

- /exec/configure/itd

failaction

[no] failaction { node { reassign | drop } | cluster drop } +

Syntax Description

no	(Optional) Negate a command or set its defaults
failaction	Configure failaction for PLB service
node	PLB failaction node
reassign	PLB failaction reassign
drop	PLB failaction drop
cluster	PLB failaction cluster

Command Mode

- /exec/configure/plb

fan speed default

```
fan speed { default | set <speed> }
```

Syntax Description

fan	configure fan param.
speed	configure fan speed.
default	fan reset to old speed.
set	fan speed set to
<i>speed</i>	fan speed

Command Mode

- /exec/configure

fast-convergence

fast-convergence | no fast-convergence

Syntax Description

no	Negate a command or set its defaults
fast-convergence	Enable vPC fast-convergence

Command Mode

- /exec/configure/vpc-domain

fast-external-fallover

[no] fast-external-fallover

Syntax Description

no	(Optional) Negate a command or set its defaults
fast-external-fallover	Immediately reset the session if the link to a directly connected BGP peer goes down

Command Mode

- /exec/configure/router-bgp

fast-flood enable

[no] fast-flood enable

Syntax Description

no	(Optional) Negate a command or set its defaults
fast-flood	Fast flood the LSP's
enable	Turn on fast-flooding

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

fast-flood enable

[no] fast-flood enable

Syntax Description

no	(Optional) Negate a command or set its defaults
fast-flood	Fast flood the LSP's
enable	Turn on fast-flooding

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

fast-flood interval

[no] fast-flood interval <interval>

Syntax Description

no	(Optional) Negate a command or set its defaults
fast-flood	Fast flood the LSP's
interval	Duration/interval of the fast-flood timer.
<i>interval</i>	Specify the value (ms)

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

fast-flood interval

[no] fast-flood interval <interval>

Syntax Description

no	(Optional) Negate a command or set its defaults
fast-flood	Fast flood the LSP's
interval	Duration/interval of the fast-flood timer.
<i>interval</i>	Specify the value (ms)

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

fast-reload

```
fast-reload { [ nxos <uri> | trigger-gr | save-config | [ non-interruptive | nosrg ] ] + | force-all [ nxos <uri> ] +
} [ override ]
```

Syntax Description

fast-reload	fast-reload software
nxos	(Optional) boot-variable name
<i>uri</i>	(Optional) Enter image uri
non-interruptive	(Optional) Non-Interruptive image upgrade
nosrg	(Optional) nosrg
override	(Optional) Do fast-reload without impact check
trigger-gr	(Optional) Enable BGP GR for compatible peers
save-config	(Optional) Save running-config to startup-config before fast-reload
force-all	Force upgrade the system

Command Mode

- /exec

fast-reload network-os

fast-reload network-os <uri>

Syntax Description

fast-reload	fast-reload software
network-os	non-cisco OS
<i>uri</i>	Enter image uri

Command Mode

- /exec

fast-reroute

[no] fast-reroute | fast-reroute [node-protect | bw-protect] +

Syntax Description

no	Negate a command or set its defaults
fast-reroute	Specify mpls tunnel can be fast-rerouted
node-protect	(Optional) node protection desired
bw-protect	(Optional) bandwidth protection desired

Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

fast-reroute backup-prot-preempt optimize-bw

[no] fast-reroute backup-prot-preempt optimize-bw | no fast-reroute timers promotion | fast-reroute timers promotion <seconds>

Syntax Description

no	(Optional) Negate a command or set its defaults
fast-reroute	fast-reroute parameters
backup-prot-preempt	Preemption algorithm for backup tunnels
optimize-bw	Reduce bandwidth wastage (default: minimize LSPs preempted)
timers	configure fast-reroute timer
promotion	Configure how often we scan for LSP backup promotion
<i>seconds</i>	seconds between promotions (0 disables promotion.)

Command Mode

- /exec/configure/te

feature-set

[no] feature-set <fs>

Syntax Description

no	Negate a command or set its defaults
feature-set	Enable feature-set
fs	allow feature-set

Command Mode

- /exec/configure

feature-set

feature-set <fs>

Syntax Description

feature-set	Enable feature-set
<i>fs</i>	allow feature-set

Command Mode

- /exec/configure

feature

[no] feature <arg1>

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Feature name
<i>arg1</i>	Enter feature name

Command Mode

- /exec/configure/rolefeaturegrp

feature bash-shell

[no] feature bash-shell

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
bash-shell	Enable/Disable bash-shell

Command Mode

- /exec/configure

feature bfd

[no] feature bfd

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
bfd	bfd

Command Mode

- /exec/configure

feature bgp

[no] feature bgp

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
bgp	Enable/Disable Border Gateway Protocol (BGP)

Command Mode

- /exec/configure

feature container-tracker

[no] feature container-tracker

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
container-tracker	Enable/Disable NXOS Container Tracker

Command Mode

- /exec/configure

feature eigrp

[no] feature eigrp

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
eigrp	Enable/Disable Enhanced Interior Gateway Routing Protocol (EIGRP)

Command Mode

- /exec/configure

feature evb

[no] feature evb

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
evb	Enable/Disable Edge Virtual Bridge (EVB)

Command Mode

- /exec/configure

feature evmed

[no] feature evmed

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
evmed	Enable/Disable Generic event detectors

Command Mode

- /exec/configure

feature fabric forwarding

[no] feature fabric forwarding

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
fabric	Enable/Disable Fabric Services
forwarding	Enable/Disable Fabric Forwarding Protocol: Host Mobility Manager (HMM)

Command Mode

- /exec/configure

feature icam

[no] feature icam

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
icam	Enable/Disable icam

Command Mode

- /exec/configure

feature interface-vlan

[no] feature interface-vlan

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
interface-vlan	Enable/Disable interface vlan

Command Mode

- /exec/configure

feature isis

[no] feature isis

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
isis	Enable/Disable IS-IS Unicast Routing Protocol (IS-IS)

Command Mode

- /exec/configure

feature lacp

[no] feature lacp

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
lacp	Enable/Disable LACP

Command Mode

- /exec/configure

feature ldap

[no] feature ldap

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
ldap	Enable/Disable ldap

Command Mode

- /exec/configure

feature lldp

[no] feature lldp

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
lldp	Enable/Disable LLDP

Command Mode

- /exec/configure

feature msdp

[no] feature msdp

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
msdp	Enable/Disable Multicast Source Discovery Protocol (MSDP)

Command Mode

- /exec/configure

feature nat

[no] feature nat

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
nat	Enable/Disable NAT

Command Mode

- /exec/configure

feature ngmvpn

[no] feature ngmvpn

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
ngmvpn	Enable/Disable EVPN/MVPN features

Command Mode

- /exec/configure

feature ntp

[no] feature ntp

Syntax Description

no	(Optional) Negate a command or set its default
feature	Command to enable/disable features
ntp	Enable/Disable NTP

Command Mode

- /exec/configure

feature nxapi

[no] feature nxapi

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
nxapi	Enable/Disable nxapi

Command Mode

- /exec/configure

feature nxdb

[no] feature nxdb

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
nxdb	Enable/Disable nxdb

Command Mode

- /exec/configure

feature nxsdk

[no] feature nxsdk

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
nxsdk	Enable/Disable nxsdk Services

Command Mode

- /exec/configure

feature ospf

[no] feature ospf

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
ospf	Enable/Disable Open Shortest Path First Protocol (OSPF)

Command Mode

- /exec/configure

feature ospfv3

[no] feature ospfv3

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
ospfv3	Enable/Disable Open Shortest Path First Version 3 Protocol (OSPFv3)

Command Mode

- /exec/configure

feature password encryption aes

[no] feature password encryption aes

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Enable the feature
password	Credential(s) for the user(s)/device(s)
encryption	Strong encryption for credential(s)
aes	Encrypt using AES encryption standard

Command Mode

- /exec/configure

feature pbr

[no] feature pbr

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
pbr	Enable/Disable Policy Based Routing(PBR)

Command Mode

- /exec/configure

feature pim

[no] feature pim

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
pim	Enable/Disable Protocol Independent Multicast (PIM)

Command Mode

- /exec/configure

feature pim6

[no] feature pim6

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
pim6	Enable/Disable Protocol Independent Multicast (PIM) for IPv6

Command Mode

- /exec/configure

feature poap

[no] feature poap

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
poap	Enable/Disable POAP

Command Mode

- /exec/configure

feature privilege

[no] feature privilege

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
privilege	Enable/Disable IOS type privilege level support

Command Mode

- /exec/configure

feature rip

[no] feature rip

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
rip	Enable/Disable Routing Information Protocol (RIP)

Command Mode

- /exec/configure

feature scheduler

[no] feature scheduler

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
scheduler	Enable/Disable scheduler

Command Mode

- /exec/configure

feature scp-server

[no] feature scp-server

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
scp-server	Enable/Disable SCP server

Command Mode

- /exec/configure

feature sftp-server

[no] feature sftp-server

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
sftp-server	Enable/Disable SFTP server

Command Mode

- /exec/configure

feature ssh

[no] feature ssh

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
ssh	Enable/Disable ssh

Command Mode

- /exec/configure

feature tacacs

[no] feature tacacs +

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features

Command Mode

- /exec/configure

feature telemetry

[no] feature telemetry

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
telemetry	Enable/Disable Telemetry

Command Mode

- /exec/configure

feature telnet

[no] feature telnet

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
telnet	Enable/Disable telnet

Command Mode

- /exec/configure

feature vtp

[no] feature vtp

Syntax Description

no	(Optional) Negate a command or set its defaults
feature	Command to enable/disable features
vtp	Enable/Disable VTP

Command Mode

- /exec/configure

fec

fec <fec_val> | no fec [<fec_val>]

Syntax Description

no	Negate a command or set its defaults
fec	Forwarding error correction
<i>fec_val</i>	Interface FEC options

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

fhrp delay minimum

[no] fhrp delay minimum | fhrp delay minimum <delay>

Syntax Description

no	Negate a command or set its defaults
fhrp	FHRP interface configuration commands
delay	Configure FHRP delay
minimum	minimum delay
<i>delay</i>	Seconds to delay

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan

fhrp delay reload

[no] fhrp delay reload | fhrp delay reload <delay>

Syntax Description

no	Negate a command or set its defaults
fhrp	FHRP interface configuration commands
delay	Configure FHRP delay
reload	reload delay
<i>delay</i>	Seconds to delay

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan

fileSYS delete

fileSYS delete <*s0*>

Syntax Description

fileSYS	file system command
delete	delete a file on file system
<i>s0</i>	file name

Command Mode

- /exec

filter

[no] filter [subject-name <s0> | altname-email <s1> | altname-upn <s2>]

Syntax Description

no	(Optional) Negate a command or set its defaults
filter	Configure mapping filter
subject-name	(Optional) Subject name of the certificate
<i>s0</i>	(Optional) Subject name
altname-email	(Optional) Email id as an alternate name
<i>s1</i>	(Optional) Email id
altname-upn	(Optional) User principal name as an alternate name
<i>s2</i>	(Optional) User principal name

Command Mode

- /exec/configure/certmap-filter

filter out

```
[ no | default ] { filter-list <fltrlist-name> } { out | in }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
filter-list	Apply AS-PATH filter-list
<i>fltrlist-name</i>	Name of filter-list
out	Apply policy to outgoing routes
in	Apply policy to incoming routes

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-link-state
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

find

find <s0>

Syntax Description

find	Find a file below the current directory
s0	Enter the filename prefix to search

Command Mode

- /exec

fips debug errors debug

[no] fips debug errors { debug-lc-post-on-maint | reset-debug-lc-post-on-maint }

Syntax Description

no	(Optional) Negate a command or set its defaults
fips	Enable/Disable FIPS mode
debug	Introduce errors into FIPS tests
errors	Introduce errors
debug-lc-post-on-maint	Run the switch on debug mode for fips maintenance state
reset-debug-lc-post-on-maint	Reset the mode from debug-lc-post-on-maint

Command Mode

- /exec/

fips mode enable

[no] fips mode enable

Syntax Description

no	(Optional) Negate a command or set its defaults
fips	Enable/Disable FIPS mode
mode	FIPS mode
enable	Enable/Disable FIPS mode

Command Mode

- /exec/configure

flow exporter

[no] flow exporter <exportername>

Syntax Description

flow	Enable/Disable NetFlow configuration
exporter	Define a Flow Exporter
<i>exportername</i>	Name of Flow Exporter

Command Mode

- /exec/configure

flow forward

[no] flow { forward | reverse }

Syntax Description

no	(Optional) Negate a command or set its defaults
flow	Configure ngoam flow
forward	Ngoam forward flow
reverse	Ngoam reverse flow

Command Mode

- /exec/configure/configngoamprofile

flow monitor

[no] flow monitor <monitorname>

Syntax Description

flow	Enable/Disable NetFlow configuration
monitor	Define a Flow Monitor
<i>monitorname</i>	Name of Flow Monitor

Command Mode

- /exec/configure

flow record

[no] flow record <recordname>

Syntax Description

flow	Enable/Disable NetFlow configuration
record	Define a Flow Record
<i>recordname</i>	Record name

Command Mode

- /exec/configure

flow timeout

{ [no] flow timeout <time> | no flow timeout }

Syntax Description

flow	Enable/Disable NetFlow configuration
timeout	Define a Flow Timeout
<i>time</i>	Time in seconds (flush-cache-Only)

Command Mode

- /exec/configure

flowcontrol hardware

[no] flowcontrol hardware

Syntax Description

no	(Optional) Negate a command or set its defaults
flowcontrol	Set flow control
hardware	Set hardware flowcontrol

Command Mode

- /exec/configure/com1

flowcontrol receive

```
flowcontrol { receive { <rx_flowctrl> } | send { <tx_flowctrl> } } | no flowcontrol { receive [ { <rx_flowctrl>
} ] | send [ { <tx_flowctrl> } ] }
```

Syntax Description

no	Negate a command or set its defaults
flowcontrol	Configure interface flowcontrol
receive	Receive pause frames
<i>rx_flowctrl</i>	Receive flow control
send	Send pause frames
<i>tx_flowctrl</i>	Send flow control

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

flush-routes

[no] flush-routes

Syntax Description

no	(Optional) Negate a command or set its defaults
flush-routes	Flush routes in RIB upon controlled restart

Command Mode

- /exec/configure/router-bgp

flush-routes

[no] flush-routes

Syntax Description

no	(Optional) Negate a command or set its defaults
flush-routes	Flush routes on a non-graceful controlled restart

Command Mode

- /exec/configure/router-ospf

flush-routes

[no] flush-routes

Syntax Description

no	(Optional) Negate a command or set its defaults
flush-routes	Flush routes in RIB during restart

Command Mode

- /exec/configure/router-eigrp

flush-routes

[no] flush-routes

Syntax Description

no	(Optional) Negate a command or set its defaults
flush-routes	Flush routes on non-graceful controlled restart

Command Mode

- /exec/configure/router-isis

flush-routes

[no] flush-routes

Syntax Description

no	(Optional) Negate a command or set its defaults
flush-routes	Flush routes in RIB during restart

Command Mode

- /exec/configure/router-rip

flush-routes

[no] flush-routes

Syntax Description

no	(Optional) Negate a command or set its defaults
flush-routes	Flush routes on a non-graceful controlled restart

Command Mode

- /exec/configure/router-ospf3

follow

follow <name> | no follow

Syntax Description

no	Negate a command or set its defaults
follow	Group to be followed
<i>name</i>	master name string to follow

Command Mode

- /exec/configure/if-eth-any/hsrp_ipv4 /exec/configure/if-eth-any/hsrp_ipv6

forceshut reset-reason

```
forceshut [ { module <module> | <s0> <santa-cruz-range> | zone <zonenumber> <subzone> } ] reset-reason
<reset_reason_string>
```

Syntax Description

forceshut	Force the entire switch to shut down
module	(Optional) Optional. Module to be forceshut(optional arg)
<i>module</i>	(Optional) please enter the module number
<i>s0</i>	(Optional) Power off a specific xbar
<i>santa-cruz-range</i>	(Optional) please enter the xbar number
zone	(Optional) Optional. Zone to be forceshut(optional arg)
<i>zonenumber</i>	(Optional) please enter the zone number
<i>subzone</i>	(Optional) please enter the subzone number
reset-reason	Shut down (with reset-reason)
<i>reset_reason_string</i>	please enter reset_reason_string in quotes

Command Mode

- /exec

format

format <uri1>

Syntax Description

format	Format disks
<i>uri1</i>	destination filesystem path

Command Mode

- /exec

format bootflash

format bootflash:

Syntax Description

format	Format disks
bootflash:	Format bootflash:

Command Mode

- /exec

format bootflash check-filesystem

format bootflash: check-filesystem

Syntax Description

format	Format disks
bootflash:	Format bootflash:
check-filesystem	Format bootflash: and fix any errors in file system

Command Mode

- /exec

format usb1

format usb1:

Syntax Description

format	Format disks
usb1:	Format usb1:

Command Mode

- /exec

forward

[no] forward

Syntax Description

no	(Optional) Negate a command or set its defaults
forward	Configure paths

Command Mode

- /exec/configure/mpls_static/ipv4/lsp/inlabel

forwarder preempt

[no] forwarder preempt [delay minimum <min-delay>]

Syntax Description

no	(Optional) Negate a command or set its defaults
forwarder	Forwarder Configuration
preempt	Overthrow lower priority designated routers
delay	(Optional) Wait before preempting
minimum	(Optional) Delay at least this long
<i>min-delay</i>	(Optional) Number of seconds for minimum delay

Command Mode

- /exec/configure/if-eth-any/glbp

forwarding-adjacency

[no] forwarding-adjacency | forwarding-adjacency [holdtime <msec>]

Syntax Description

no	Negate a command or set its defaults
forwarding-adjacency	Treat this tunnel as a Forwarding Adjacency
holdtime	(Optional) How long in msec to wait upon flooding a down Forwarding Adjacency
<i>msec</i>	(Optional) Holdtime on MPLS TE Down

Command Mode

- /exec/configure/if-te

fragments

[no] fragments <opt_type>

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>opt_type</i>	frag_op_type

Command Mode

- /exec/configure/ipacl /exec/configure/ipv6acl

frequency

{ { no | default } frequency | frequency <seconds> }

Syntax Description

no	
default	Set a command to its defaults
frequency	Frequency of an operation
<i>seconds</i>	Frequency in seconds

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp
/exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho
/exec/configure/ip-sla/http

from to

```
[no] { { from <frm-list> to <to-val> } | { default { <value> | copy | ignore } } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
from	Map values from this
<i>frm-list</i>	Original list of values which are to be mapped
to	Map values to this
<i>to-val</i>	New mapped value
default	map default values
<i>value</i>	default value to be set
copy	Do a default copy
ignore	Ignore any unspecified values

Command Mode

- /exec/configure/table-map

from to

```
{ [ no ] { { from <frm-list> to <to-val> } | { default <value> } } } | default copy
```

Syntax Description

no	(Optional) Negate a command or set its defaults
from	Map values from this
<i>frm-list</i>	Original list of values which are to be mapped
to	Map values to this
<i>to-val</i>	New mapped value
default	map default values
<i>value</i>	default value to be set
copy	Do a default copy

Command Mode

- /exec/configure/def-tmap

from to



G Commands

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generate type7_encrypted_secret

generate type7_encrypted_secret

Syntax Description

generate	generate
type7_encrypted_secret	Type 7 Encrypted Secret

Command Mode

- /exec

getnext

| getnext

Syntax Description

	Pipe command output to filter
getnext	return next instance instead of specified one, or first instance if none specified (if supported by feature)

Command Mode

- /output

global-block

[no] global-block <min-srgb-label> <max-srgb-label>

Syntax Description

no	(Optional) Negate a command or set its defaults
global-block	Specify global block range for Segment Routing bindings
<i>min-srgb-label</i>	Minimum label value
<i>max-srgb-label</i>	Maximum label value

Command Mode

- /exec/configure/ulib

graceful-restart-helper

[no] graceful-restart-helper

Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart-helper	Configure Graceful Restart Helper mode functionality

Command Mode

- /exec/configure/router-bgp/vrf-cmds

graceful-restart

[no] graceful-restart

Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Configure Graceful Restart functionality

Command Mode

- /exec/configure/router-bgp/vrf-cmds

graceful-restart

[no] graceful-restart [planned-only]

Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Configure graceful restart
planned-only	(Optional) Enable graceful restart only for a planned restart

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

graceful-restart

```
graceful-restart [ timers { forwarding-holding <fwdg-holdtime> | max-recovery <recovery-time> |
neighbor-liveness <peer-liveness-time> } ] | no graceful-restart [ timers { forwarding-holding | max-recovery
| neighbor-liveness } ]
```

Syntax Description

no	Negate a command or set its defaults
graceful-restart	Configure LDP Graceful Restart
timers	(Optional) Configure Graceful Restart timers
forwarding-holding	(Optional) Forwarding State Holding time
<i>fwdg-holdtime</i>	(Optional) seconds
max-recovery	(Optional) Max-Recovery time
<i>recovery-time</i>	(Optional) seconds
neighbor-liveness	(Optional) Neighbor-Liveness time
<i>peer-liveness-time</i>	(Optional) seconds

Command Mode

- /exec/configure/ldp

graceful-restart

[no] graceful-restart

Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Enable graceful restart for IS-IS

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

graceful-restart

```
{ { [ no ] [ eigrp ] graceful-restart } | { [ no ] nsf } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
graceful-restart	Peer resync without adjacency reset
nsf	Non-stop forwarding

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

graceful-restart

[no] graceful-restart

Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Enable graceful restart for IS-IS

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

graceful-restart

[no] graceful-restart [planned-only]

Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Configure graceful restart
planned-only	(Optional) Enable graceful restart only for a planned restart

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

graceful-restart grace-period

[no] graceful-restart grace-period <grace-period>

Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Configure graceful restart
grace-period	Configure maximum interval to restart gracefully
<i>grace-period</i>	Grace period in seconds

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

graceful-restart grace-period

[no] graceful-restart grace-period <grace-period>

Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Configure graceful restart
grace-period	Configure maximum interval to restart gracefully
<i>grace-period</i>	Grace period in seconds

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

graceful-restart helper-disable

[no] graceful-restart helper-disable

Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Configure graceful restart
helper-disable	Disable helper mode

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

graceful-restart helper-disable

[no] graceful-restart helper-disable

Syntax Description

no	(Optional) Negate a command or set its defaults
graceful-restart	Configure graceful restart
helper-disable	Disable helper mode

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

graceful-restart restart-time

graceful-restart restart-time <restart-time> | no graceful-restart restart-time [<restart-time>]

Syntax Description

no	Negate a command or set its defaults
graceful-restart	Configure Graceful Restart functionality
restart-time	Maximum time for restart advertised to peers
<i>restart-time</i>	Restart time (seconds)

Command Mode

- /exec/configure/router-bgp/vrf-cmds

graceful-restart stalepath-time

graceful-restart stalepath-time <stalepath-time> | no graceful-restart stalepath-time [<stalepath-time>]

Syntax Description

no	Negate a command or set its defaults
graceful-restart	Configure Graceful Restart functionality
stalepath-time	Maximum time to keep a restarting peer's stale routes
<i>stalepath-time</i>	Stalepath time (seconds)

Command Mode

- /exec/configure/router-bgp/vrf-cmds

graceful-restart t3 manual

graceful-restart t3 manual <sec> | no graceful-restart t3 manual [<sec>]

Syntax Description

no	Negate a command or set its defaults
graceful-restart	Enable graceful restart for IS-IS
t3	Set the T3 (RFC 3847) graceful restart timer
manual	Change manually T3 default value
<i>sec</i>	Specify T3 value (secs)

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

graceful-restart t3 manual

graceful-restart t3 manual <sec> | no graceful-restart t3 manual [<sec>]

Syntax Description

no	Negate a command or set its defaults
graceful-restart	Enable graceful restart for IS-IS
t3	Set the T3 (RFC 3847) graceful restart timer
manual	Change manually T3 default value
<i>sec</i>	Specify T3 value (secs)

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

graceful consistency-check

[no] graceful consistency-check

Syntax Description

no	(Optional) Negate a command or set its defaults
graceful	Enable graceful features
consistency-check	Enable graceful type-1 consistency check

Command Mode

- /exec/configure/vpc-domain

grep

| { grep | egrep } [count | ignore-case | line-number | invert-match | word-exp | line-exp | <ctx> | next <num> | prev <num>] + <expr>

Syntax Description

	Pipe command output to filter
grep	Grep - print lines matching a pattern
egrep	Egrep - print lines matching a pattern
count	(Optional) Print a total count of matching lines only
ignore-case	(Optional) Ignore case difference when comparing strings
line-number	(Optional) Print each match preceded by its line number
invert-match	(Optional) Print only lines that contain no matches for <expr>
word-exp	(Optional) Print only lines where the match is a complete word
line-exp	(Optional) Print only lines where the match is a whole line
ctx	(Optional) Print <num> lines of context on each side of every match
next	(Optional) Print <num> lines of context after every matching line
prev	(Optional) Print <num> lines of context before every matching line
num	(Optional) Print <num> lines of context
expr	Search for the expression

Command Mode

- /output

grep

| { grep | egrep } [-c | -i | -n | -v | -w | -x | <ctx> | -A <num> | -B <num>] + <expr>

Syntax Description

	Pipe command output to filter
grep	Grep - print lines matching a pattern
egrep	Egrep - print lines matching a pattern
-c	(Optional) Print a total count of matching lines only
-i	(Optional) Ignore case difference when comparing strings
-n	(Optional) Print each match preceded by its line number
-v	(Optional) Print only lines that contain no matches for <expr>
-w	(Optional) Print only lines where the match is a complete word
-x	(Optional) Print only lines where the match is a whole line
ctx	(Optional) Print <num> lines of context on each side of every match
-A	(Optional) Print <num> lines of context after every matching line
-B	(Optional) Print <num> lines of context before every matching line
num	(Optional) Print <num> lines of context
expr	Search for the expression

Command Mode

- /output

grep

| { grep | egrep } [-c | -i | -n | -v | -w | -x | <ctx> | -A <num> | -B <num>] + [--] <expr>

Syntax Description

	Pipe command output to filter
grep	Grep
egrep	Egrep
-c	(Optional) Print a total count of matching lines only
-i	(Optional) Ignore case difference when comparing strings
-n	(Optional) Print each match preceded by its line number
-v	(Optional) Print only lines that contain no matches for <expr>
-w	(Optional) Print only lines where the match is a complete word
-x	(Optional) Print only lines where the match is a whole line
ctx	(Optional) Print <num> lines of context on each side of every match
-A	(Optional) Print <num> lines of context after every matching line
-B	(Optional) Print <num> lines of context before every matching line
num	(Optional) Print <num> lines of context
--	(Optional) --
expr	Search for the expression

Command Mode

- /output

guestshell

```
guestshell [ { enable [ { package <enable_uri> } ] } | { upgrade [ { package <upgrade_uri> } ] } | { export {
  rootfs package <export_uri> } } | { disable } | { destroy } | { reboot } | <sync_cmd_name> | { resize { rootfs
  <gsh_rootfs> | cpu <gsh_cpu> | memory <gsh_memory> } } | { run { <cmd_args> } } ]
```

Syntax Description

guestshell	Request a guest shell
enable	(Optional) Enable the guest shell service
upgrade	(Optional) Upgrade the guest shell service package to a different version
export	(Optional) Export the guest shell
<i>export_uri</i>	(Optional) Destination file or directory path
disable	(Optional) Disable the guest shell service package
destroy	(Optional) Disable and uninstall the guest shell service package
<i>sync_cmd_name</i>	(Optional) Synchronize the contents of the guest shell to standby supervisor
reboot	(Optional) Deactivate and reactivate the guest shell service
resize	(Optional) Resize the existing/default guest shell parameters
rootfs	(Optional) Guest shell root filesystem disk image
<i>gsh_rootfs</i>	(Optional) New root filesystem size (in MB)
cpu	(Optional) System CPU share allocated to guest shell
<i>gsh_cpu</i>	(Optional) New CPU share allocation (as % of system CPU)
memory	(Optional) System memory allocated to guest shell
<i>gsh_memory</i>	(Optional) New memory size (in MB)
package	(Optional) Package location
<i>enable_uri</i>	(Optional) File name for the virtual service
<i>upgrade_uri</i>	(Optional) File name for the virtual service
run	(Optional) Execute/run program in the guest shell
<i>cmd_args</i>	(Optional) Executable with optional arguments

Command Mode

- /exec

gunzip

gunzip <uri0>

Syntax Description

gunzip	Uncompresses LZ77 coded files
<i>uri0</i>	Enter filename (filename must have .gz extension)

Command Mode

- /exec

gzip

gzip <uri0>

Syntax Description

gzip	Compresses file using LZ77 coding
<i>uri0</i>	Enter filename

Command Mode

- /exec



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ha-policy single

ha-policy { single-sup <hap-change> | dual-sup <sw-change> } +

Syntax Description

ha-policy	Change HA policy for this VDC
<i>hap-change</i>	Change HA policy for this VDC
single-sup	Change HA policy for this VDC for single-sup situations
dual-sup	Change HA policy for this VDC for dual-sup situations
<i>sw-change</i>	Set hap policy

Command Mode

- /exec/configure/vdc

ha-stateful

[no] ha-stateful

Syntax Description

no	(Optional) Negate a command or set its defaults
ha-stateful	Enable stateful OSPF HA

Command Mode

- /exec/configure/router-ospf

hardware access-list lou resource threshold

[no] hardware access-list lou resource threshold <threshold>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
lou	LOU
resource	hardware resource
threshold	port expansion threshold
<i>threshold</i>	value of threshold

Command Mode

- /exec/configure

hardware access-list match inner-header

[no] hardware access-list match inner-header

Syntax Description

no	(Optional) Negate the command or set its defaults
hardware	Change hardware usage settings
access-list	Access Control List
match	Match criteria in ACL
inner-header	Match inner header fields in IPinIP/GRE packets

Command Mode

- /exec/configure

hardware access-list module

[no] hardware access-list { resource-pooling | resource pooling } module <module-number>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Show hardware information
access-list	Access Control List
resource-pooling	Enable ACL programming across TCAM banks
resource	hardware resource
pooling	Enable ACL programming across TCAM banks
module	module number
<i>module-number</i>	specify module number

Command Mode

- /exec/configure

hardware access-list tcam label ing-racl 9

[no] hardware access-list tcam label ing-racl 9

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
label	Tcam entry label info
ing-racl	Ingress RACL region
9	Size in bits for BD-Labels allocated to Ingress-RACL region

Command Mode

- /exec/configure

hardware access-list tcam region

[no] hardware access-list tcam region <type> <tcam_size>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
region	Configure tcam region
<i>type</i>	Region type
<i>tcam_size</i>	Enter tcam size

Command Mode

- /exec/configure

hardware access-list tcam region double-wide

[no] hardware access-list tcam region <double-wide-region> <tcam_size> double-wide

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
region	Configure tcam region
<i>double-wide-region</i>	Region type
<i>tcam_size</i>	Enter tcam size
double-wide	Double Width

Command Mode

- /exec/configure

hardware access-list tcam region double-wide

[no] hardware access-list tcam region <arp-ether> <arpether_tcam_size> double-wide

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
access-list	Access Control List
tcam	Configure tcam parameters
region	Configure tcam region
<i>arp-ether</i>	Region type
<i>arpether_tcam_size</i>	Enter tcam size
double-wide	Double Width

Command Mode

- /exec/configure

hardware access-list tcam region qualify udf

[no] hardware access-list tcam region <udf_tcam_type> qualify { udf | v6udf } { <udf_name> } +

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
access-list	Access Control List
tcam	Configure tcam parameters
region	Configure tcam region
<i>udf_tcam_type</i>	Region type
qualify	Configure UDFs to be qualified for span region
udf	Configure UDF names
v6udf	Configure IPv6 UDF names
<i>udf_name</i>	UDF name

Command Mode

- /exec/configure

hardware ecmp hash-offset

[no] hardware ecmp hash-offset <value> [concatenation]

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
ecmp	ECMP configuration
hash-offset	Configure hash offset
<i>value</i>	Hash offset 0-15 non-concatenate mode, 0-63 concatenate mode
concatenation	(Optional) Configure hash concatenation

Command Mode

- /exec/configure

hardware ecmp hash-polynomial

hardware ecmp hash-polynomial <poly-type> | no hardware ecmp hash-polynomial

Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
ecmp	ECMP configuration
hash-polynomial	Configure hash polynomial
<i>poly-type</i>	Polynomial type

Command Mode

- /exec/configure

hardware ejector enable

[no] hardware ejector enable

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
ejector	Card ejector functionality
enable	enabled means when both ejectors are open, card is powered down

Command Mode

- /exec/configure

hardware fan-zone raise-speed

[no] hardware fan-zone <fan_zone_id> raise-speed <speed-to-raise>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
fan-zone	Fan Zone supported in the switch
<i>fan_zone_id</i>	please enter fan zone id whose speed needs to be increased
raise-speed	Speed to be added for current fan zone speed
<i>speed-to-raise</i>	please enter additional fan speed

Command Mode

- /exec/configure

hardware forwarding funcstats clear

hardware forwarding funcstats clear

Syntax Description

hardware	Change hardware usage settings
forwarding	Change forwarding related settings
funcstats	Enable/disable funcstats
clear	Clear funcstats information

Command Mode

- /exec

hardware forwarding funcstats disable

hardware forwarding funcstats disable

Syntax Description

hardware	Change hardware usage settings
forwarding	Change forwarding related settings
funcstats	Enable/disable funcstats
disable	Disable funcstats recording and output

Command Mode

- /exec

hardware forwarding funcstats enable

hardware forwarding funcstats enable

Syntax Description

hardware	Change hardware usage settings
forwarding	Change forwarding related settings
funcstats	Enable/disable funcstats
enable	Enable funcstats recording and output

Command Mode

- /exec

hardware forwarding l3 resource route non-deterministic

[no] hardware forwarding l3 resource route non-deterministic

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	hardware information
forwarding	forwarding information
l3	Layer-3
resource	hardware resources
route	TCAM capacity to hold prefixes
non-deterministic	extend upto 1M

Command Mode

- /exec/configure

hardware forwarding unicast trace

[no] hardware forwarding unicast trace

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
forwarding	Hardware forwarding
unicast	Hardware Unicast forwarding
trace	Debug traces

Command Mode

- /exec/configure

hardware ip glean throttle

[no] hardware ip glean throttle

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware information
ip	IP
glean	Glean
throttle	Throttle

Command Mode

- /exec/configure

hardware ip glean throttle maximum

{ hardware ip glean throttle maximum <count> } | { no hardware ip glean throttle maximum }

Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ip	IP
glean	Glean
throttle	Throttle
maximum	Maximum number of entries
<i>count</i>	Count

Command Mode

- /exec/configure

hardware ip glean throttle syslog

{ hardware ip glean throttle syslog <pkt-count> } | { no hardware ip glean throttle syslog }

Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ip	IP
glean	Glean
throttle	Throttle
syslog	Threshold for syslog for number of packets hitting the entry
<i>pkt-count</i>	Packet count

Command Mode

- /exec/configure

hardware ip glean throttle timeout

{ hardware ip glean throttle timeout <timeout-in-sec> } | { no hardware ip glean throttle timeout }

Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ip	IP
glean	Glean
throttle	Throttle
timeout	Timeout
<i>timeout-in-sec</i>	Timeout value in seconds (should be multiple of 30, else will be rounded off to nearest boundary)

Command Mode

- /exec/configure

hardware ipv6 glean throttle

[no] hardware ipv6 glean throttle

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware information
ipv6	IPv6
glean	Glean
throttle	Throttle

Command Mode

- /exec/configure

hardware ipv6 glean throttle maximum

{ hardware ipv6 glean throttle maximum <count> } | { no hardware ipv6 glean throttle maximum }

Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ipv6	IPv6
glean	Glean
throttle	Throttle
maximum	Maximum number of entries
<i>count</i>	Count

Command Mode

- /exec/configure

hardware ipv6 glean throttle syslog

{ hardware ipv6 glean throttle syslog <pkt-count> } | { no hardware ipv6 glean throttle syslog }

Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ipv6	IPv6
glean	Glean
throttle	Throttle
syslog	Threshold for syslog for number of packets hitting the entry
<i>pkt-count</i>	Packet count

Command Mode

- /exec/configure

hardware ipv6 glean throttle timeout

{ hardware ipv6 glean throttle timeout <timeout-in-sec> } | { no hardware ipv6 glean throttle timeout }

Syntax Description

no	Negate a command or set its defaults
hardware	Hardware information
ipv6	IPv6
glean	Glean
throttle	Throttle
timeout	Timeout
<i>timeout-in-sec</i>	Timeout value in seconds (should be multiple of 30, else will be rounded off to nearest boundary)

Command Mode

- /exec/configure

hardware module boot-order reverse

[no] hardware module boot-order reverse

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
module	applies on all the modules
boot-order	Configure order of module power-up
reverse	reverse order of module power-up

Command Mode

- /exec/configure

hardware multicast global-tx-span

[no] hardware multicast global-tx-span

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
multicast	Change multicast setting
global-tx-span	Modify table programming to support TX multicast SPAN across slices

Command Mode

- /exec/configure

hardware profile buffer info poll-interval timer

[no] hardware profile buffer info poll-interval [module <module>] timer <msec>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
buffer	System buffer
info	Information
poll-interval	System buffer status polling interval
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
timer	Polling timer
<i>msec</i>	Polling timer value in msec

Command Mode

- /exec/configure

hardware profile buffer info port-threshold threshold

[no] hardware profile buffer info port-threshold [module <module>] threshold <value>

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
buffer	System buffer
info	Information
port-threshold	Set port egress buffer usage threshold
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number
threshold	threshold value
<i>value</i>	percentage of maximum usage

Command Mode

- /exec/configure

hardware profile buffer monitor unicast

hardware profile buffer monitor { unicast | multicast } [internal] [sampling <sampling>] [threshold <threshold>] [interface <intf-num> | sclass <sclass>] | no hardware profile buffer monitor

Syntax Description

no	Negate a command or set its defaults
hardware	Configure hardware profile buffer monitor settings
profile	profile buffer monitor settings
buffer	buffer
monitor	buffer monitor
unicast	unicast
multicast	multicast
internal	(Optional) enable buffer monitoring internal mode
sampling	(Optional) sampling interval in nano-seconds
<i>sampling</i>	(Optional) sampling interval in nano-seconds
threshold	(Optional) histogram threshold in Kbytes with 384 Kbytes increment
<i>threshold</i>	(Optional) histogram threshold in Kbytes with 384 Kbytes increment
interface	(Optional) enable buffer monitoring on an interface
<i>intf-num</i>	(Optional) enable buffer monitoring on an interface
sclass	(Optional) enable buffer monitoring on a system class of services
<i>sclass</i>	(Optional) enable buffer monitoring on a system class of services

Command Mode

- /exec/configure

hardware profile ecmp auto-recovery threshold

hardware profile ecmp auto-recovery threshold <percentage> | no hardware profile ecmp auto-recovery threshold

Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
ecmp	ECMP settings
auto-recovery	ECMP auto-recovery settings
threshold	ECMP table free percentage threshold for auto-recovery
<i>percentage</i>	Percentage

Command Mode

- /exec/configure

hardware profile ecmp resilient

[no] hardware profile ecmp resilient

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
ecmp	ECMP settings
resilient	Configure ECMP resilient mode

Command Mode

- /exec/configure

hardware profile forwarding-mode

```
[no] hardware profile forwarding-mode { warp [ lpm-entry <lpm_warp> host-entry <host> l2-entry <l2>
mcast-entry <mcst_warp> ] | openflow-hybrid | openflow-only | normal [ lpm-entry <ipv4> mcast-entry
<mcst> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
forwarding-mode	Forwarding mode setting
warp	Warp forwarding mode setting
openflow-hybrid	Openflow hybrid forwarding mode setting
openflow-only	Openflow only forwarding mode setting
normal	Normal forwarding mode setting
lpm-entry	(Optional) 4K aligned total IPv4 entries
<i>ipv4</i>	(Optional) 4K aligned total IPv4 entries
mcast-entry	(Optional) 4K aligned total Mcast entries
<i>mcst</i>	(Optional) 4K aligned total Mcast entries
<i>lpm_warp</i>	(Optional) 4K aligned total IPv4 entries
<i>mcst_warp</i>	(Optional) 4K aligned total Mcast entries
host-entry	(Optional) 4K aligned total Host entries
<i>host</i>	(Optional) 4K aligned total Host entries
l2-entry	(Optional) 4K aligned total L2 entries
<i>l2</i>	(Optional) 4K aligned total L2 entries

Command Mode

- /exec/configure

hardware profile front portmode

hardware profile front portmode <port-mode> | no hardware profile front portmode

Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
front	port 1 QSFP/SFP+ settings
portmode	QSFP or SFP+
<i>port-mode</i>	Configure QSFP/sfp+ port mode

Command Mode

- /exec/configure

hardware profile ipv6 alpm carve-value

[no] hardware profile ipv6 alpm carve-value <ipv6_alpm_carve_value>

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	profile settings
ipv6	ipv6
alpm	alpm mode
carve-value	carve value
<i>ipv6_alpm_carve_value</i>	maximum entries

Command Mode

- /exec/configure

hardware profile ipv6 lpm-entries maximum

[no] hardware profile ipv6 lpm-entries maximum <ipv6_lpm_max_entry>

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	profile settings
ipv6	ipv6
lpm-entries	lpm(non-host) entries
maximum	maximum limit
<i>ipv6_lpm_max_entry</i>	maximum entries

Command Mode

- /exec/configure

hardware profile latency monitor

hardware profile latency monitor [threshold-avg <threshold-avg>] [threshold-max <threshold-max>] [sampling <sampling>] | no hardware profile latency monitor

Syntax Description

no	Negate a command or set its defaults
hardware	Configure hardware profile latency monitor settings
profile	profile latency monitor settings
latency	latency
monitor	latency monitor
threshold-avg	(Optional) average latency threshold in nano-seconds
<i>threshold-avg</i>	(Optional) average latency threshold in nano-seconds
threshold-max	(Optional) maximum latency threshold in nano-seconds
<i>threshold-max</i>	(Optional) maximum latency threshold in nano-seconds
sampling	(Optional) sampling interval in seconds
<i>sampling</i>	(Optional) sampling interval in seconds

Command Mode

- /exec/configure

hardware profile multicast flex-stats-enable

[no] hardware profile multicast flex-stats-enable

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
flex-stats-enable	Enable real time stats

Command Mode

- /exec/configure

hardware profile multicast max-limit

{ hardware profile multicast max-limit <mcast-ent> } | { no hardware profile multicast max-limit }

Syntax Description

no	Negate the command
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
max-limit	maximum limit for multicast entries
<i>mcast-ent</i>	Mcast Table Entries

Command Mode

- /exec/configure

hardware profile multicast max-limit lpm-entries

[no] hardware profile multicast max-limit lpm-entries <ipv4_mcast_lpm_max_entry>

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
max-limit	maximum limit for multicast entries
lpm-entries	lpm(non-host) entries
<i>ipv4_mcast_lpm_max_entry</i>	maximum entries

Command Mode

- /exec/configure

hardware profile multicast prefer-source-tree

[no] hardware profile multicast prefer-source-tree [eternity [limit <max-limit>]]

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
prefer-source-tree	prefer the source tree
eternity	(Optional) prefer source tree for eternity and not for just 2 minutes
limit	(Optional) Configure a limit for the number of hardware entries used
<i>max-limit</i>	(Optional) Number of (S,G) for which source tree is preferred

Command Mode

- /exec/configure

hardware profile multicast rpf-check-optimization

```
{ hardware profile multicast rpf-check-optimization } | { no hardware profile multicast rpf-check-optimization }  
}
```

Syntax Description

no	Negate the command
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
rpf-check-optimization	RPF Check optimization on Monticello ASIC

Command Mode

- /exec/configure

hardware profile multicast service-reflect port

```
{ hardware profile multicast service-reflect port <port-num> } | { no hardware profile multicast service-reflect
}
```

Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
service-reflect	service-reflect settings
port	loopback port
<i>port-num</i>	loopback port-num

Command Mode

- /exec/configure

hardware profile multicast slow-receiver port

hardware profile multicast slow-receiver port <port> | no hardware profile multicast slow-receiver port <port>

Syntax Description

no	Negate the command
hardware	Change hardware usage settings
profile	Profile
multicast	Multicast settings
slow-receiver	Multicast slow receiver
port	Port
<i>port</i>	Port number

Command Mode

- /exec/configure

hardware profile multicast syslog-threshold

[no] hardware profile multicast syslog-threshold <percentage>

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	profile settings
multicast	Multicast settings
syslog-threshold	MROUTE table syslog threshold
<i>percentage</i>	Percentage (Default is 90)

Command Mode

- /exec/configure

hardware profile openflow

```
[no] hardware profile { openflow [ agent default { drop | normal } ] | { tap-aggregation [ l2drop ] } }
```

Syntax Description

no	(Optional) Negate the command
hardware	Hardware Internal Information
profile	Profile
openflow	Openflow
tap-aggregation	Tap Aggregation
l2drop	(Optional) Drop non IP traffic ingress on mode tap interfaces
agent	(Optional) Act as Openflow Agent
default	(Optional) Specify default action for frames which don't match any flow
drop	(Optional) Drop all frames that miss MAC
normal	(Optional) [default]Flood unknown traffic

Command Mode

- /exec/configure

hardware profile pbr skip-selfip

[no] hardware profile pbr skip-selfip

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
pbr	PBR feature settings
skip-selfip	Configure Skipping PBR for self-ip packets

Command Mode

- /exec/configure

hardware profile pfc mmu buffer-reservation

[no] hardware profile pfc mmu buffer-reservation <percentage>

Syntax Description

no	(Optional) Negate the command
hardware	Hardware Internal Information
profile	profile settings
pfc	System level priority-flow-control settings
mmu	Hardware memory management unit configuration
buffer-reservation	Shared pool buffer reservation
<i>percentage</i>	Percentage of shared pool buffers to be reserved

Command Mode

- /exec/configure

hardware profile portmode

{ hardware profile portmode <port-mode> [2-tuple] } | no hardware profile portmode

Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
profile	profile settings
portmode	QSFP port mode setting
<i>port-mode</i>	Configure QSFP port mode
2-tuple	(Optional) Display QSFP portnames in 2-tuple mode even in 10G mode

Command Mode

- /exec/configure

hardware profile tcam ipv6-sup-tcam match-inner

```
{ hardware profile tcam ipv6-sup-tcam match-inner } | { no hardware profile tcam ipv6-sup-tcam match-inner }  
}
```

Syntax Description

no	Negate a command or set its defaults
hardware	Change hardware usage settings
profile	Profile settings
tcam	Configure tcam parameters
ipv6-sup-tcam	IPv6 SUP TCAM parameters
match-inner	match inner payload for tunnel packets

Command Mode

- /exec/configure

hardware profile tcam region

```
[no] hardware profile tcam region { <tcam_compat_type> <tcam_compat_size> | ifacl <tcam_compat_size>
[ double-wide ] | nat <tcam_compat_size> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Hardware Internal Information
profile	profile
tcam	Configure tcam parameters
region	Configure tcam region
ifacl	IPV4 PAACL size
double-wide	(Optional) Configure tcam as double wide
nat	NAT size
<i>tcam_compat_type</i>	
<i>tcam_compat_size</i>	Enter tcam size

Command Mode

- /exec/configure

hardware profile tcam region span qualify udf

[no] hardware profile tcam region span qualify udf { <udf_name> } +

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	Profile settings
tcam	Configure tcam parameters
region	Configure tcam region
span	Configure for span region
qualify	Configure UDFs to be qualified for span region
udf	Configure UDF names
<i>udf_name</i>	UDF name

Command Mode

- /exec/configure

hardware profile tcam region spanv6-l2 qualify udf

[no] hardware profile tcam region spanv6-l2 qualify udf { <udf_name> } +

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	Profile settings
tcam	Configure tcam parameters
region	Configure tcam region
spanv6-l2	Configure for span region
qualify	Configure UDFs to be qualified for span region
udf	Configure UDF names
<i>udf_name</i>	UDF name

Command Mode

- /exec/configure

hardware profile tcam region spanv6 qualify udf

[no] hardware profile tcam region spanv6 qualify udf { <udf_name> } +

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	Profile settings
tcam	Configure tcam parameters
region	Configure tcam region
spanv6	Configure for span region
qualify	Configure UDFs to be qualified for span region
udf	Configure UDF names
<i>udf_name</i>	UDF name

Command Mode

- /exec/configure

hardware profile tcam resource service-template

[no] hardware profile tcam resource service-template { <name> } [module { <lc> | <fm> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	Profile settings
tcam	Configure tcam parameters
resource	Configure tcam hardware resources
service-template	Commit template
<i>name</i>	Select name of template
module	(Optional) Specify a module number
<i>lc</i>	(Optional) line card number
<i>fm</i>	(Optional) fabric module number

Command Mode

- /exec/configure handle auto 424

hardware profile tcam resource template

```
[no] hardware profile tcam resource template { <name> { ref-template <temp-nontahoe> | ref-template-tahoe
<temp-tahoe> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
hardware	Change hardware usage settings
profile	Profile settings
tcam	Configure tcam parameters
resource	Configure tcam hardware resources
template	Configure template based tcam carving parameters
ref-template	Select a default template as reference
<i>temp-nontahoe</i>	
ref-template-tahoe	Select a default template as reference
<i>temp-tahoe</i>	
<i>name</i>	Create/Select name of custom template

Command Mode

- /exec/configure

hardware profile ucast6 lpm-65-to-127-max-limit

{ hardware profile ucast6 lpm-65-to-127-max-limit <unicast-ent> } | { no hardware profile ucast6 lpm-65-to-127-max-limit }

Syntax Description

no	Negate the command
hardware	Change hardware usage settings
profile	profile settings
ucast6	unicast ipv6 settings
lpm-65-to-127-max-limit	maximum limit for unicast ipv6 lpm-65-to-127 entries, default is 256
<i>unicast-ent</i>	Unicast ipv6 lpm-65-to-127 Table Entries

Command Mode

- /exec/configure

hardware profile ucast6 max-limit

{ hardware profile ucast6 max-limit <unicast-ent> } | { no hardware profile ucast6 max-limit }

Syntax Description

no	Negate the command
hardware	Change hardware usage settings
profile	profile settings
ucast6	unicast ipv6 settings
max-limit	maximum limit for unicast ipv6 entries
<i>unicast-ent</i>	Unicast ipv6 Table Entries

Command Mode

- /exec/configure

hardware profile unicast enable-host-ecmp

[no] hardware profile unicast enable-host-ecmp [arp-nd | [ipv4 [arp]] | [ipv6 [nd]]]

Syntax Description

no	(Optional) Negate the command
hardware	Change hardware usage settings
profile	profile settings
unicast	Unicast settings
enable-host-ecmp	Enable ECMP support for /32 (IPv4) and /128 (IPv6) routes
ipv4	(Optional) Enable ECMP support for /32 (IPv4 Only) Routes
ipv6	(Optional) Enable ECMP support for /128 (IPv6 Only) Routes
arp-nd	(Optional) Retain ARP (IPv4) and ND (IPv6) Routes in Host-Table
arp	(Optional) Retain ARP Entries in Host-Table
nd	(Optional) Retain ND Entries in Host-Table

Command Mode

- /exec/configure

hardware profile unicast syslog-threshold

```
{ hardware profile unicast syslog-threshold <percentage> } | { no hardware profile unicast syslog-threshold }  
}
```

Syntax Description

no	Negate the command
hardware	Change hardware usage settings
profile	profile settings
unicast	Unicast settings
syslog-threshold	Unicast Route table syslog threshold
<i>percentage</i>	Percentage

Command Mode

- /exec/configure

hardware sample-redirect module redirect-interface

hardware sample-redirect module <num> redirect-interface <interface>

Syntax Description

hardware	Change hardware usage settings
sample-redirect	Redirect netflow sampled data
module	Line card module
<i>num</i>	slot number
redirect-interface	Interface for redirecting the traffic
<i>interface</i>	Interface Name

Command Mode

- /exec

head

| head [-n <lines>]

Syntax Description

	Pipe command output to filter
head	Display first lines
-n	(Optional) modify number of lines (default 10)
<i>lines</i>	(Optional) number of lines to print

Command Mode

- /output

hello-interval

{ { hello-interval <interval> } | { no hello-interval [<interval>] } }

Syntax Description

no	Negate a command or set its defaults
hello-interval	Hello interval
<i>interval</i>	(seconds)

Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

hello-interval

```
{ { hello-interval <interval> } | { no hello-interval [ <interval> ] } }
```

Syntax Description

no	Negate a command or set its defaults
hello-interval	Hello interval
<i>interval</i>	(seconds)

Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

hello-interval

{ { hello-interval <interval> } | { no hello-interval [<interval>] } }

Syntax Description

no	Negate a command or set its defaults
hello-interval	Hello interval
<i>interval</i>	(seconds)

Command Mode

- /exec/configure/router-ospf3/router-ospf3-vlink /exec/configure/router-ospf3/vrf/router-ospf3-vlink

hex

hex <expr>

Syntax Description

hex	calculator with results in decimal format
<i>expr</i>	the expression to compute (integer arithmetics)

Command Mode

- /exec

history

```
{ no | default } history { { buckets-kept } | { distributions-of-statistics-kept } | { enhanced [ interval [
<interval-seconds> [ buckets [ <num-buckets> ] ] ] ] } | { filter } | { hours-of-statistics-kept } | { lives-kept }
| { statistics-distribution-interval } }
```

Syntax Description

no	
<i>interval</i>	(Optional) buckets
default	Set a command to its defaults
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture
enhanced	Enable enhanced history collection
<i>interval-seconds</i>	(Optional) Interval in seconds
buckets	(Optional) Number of buckets to collect data
<i>num-buckets</i>	(Optional) Number of buckets
filter	Add operation to History when...
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
lives-kept	Maximum number of history lives to collect
statistics-distribution-interval	Statistics distribution interval size

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/tcp /exec/configure/ip-sla/icmpEcho

history

```
history { { buckets-kept <num-buckets-kept> } | { distributions-of-statistics-kept <num-dist-stats> } | {
enhanced [ interval [ <interval-seconds> [ buckets [ <num-buckets> ] ] ] ] } | { filter { all | failures | none |
overThreshold } } | { hours-of-statistics-kept <num-hours-of-stats> } | { lives-kept <life-size-value> } | {
statistics-distribution-interval <dist-interval> } }
```

Syntax Description

<i>interval</i>	(Optional) buckets
<i>interval-seconds</i>	(Optional) <num-buckets>
<i>life-size-value</i>	<dist-interval>
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
<i>num-buckets-kept</i>	Bucket size value (default 15)
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture
<i>num-dist-stats</i>	Distribution bucket size value (default 1)
enhanced	Enable enhanced history collection
buckets	(Optional) Number of buckets to collect data
<i>num-buckets</i>	(Optional) Number of buckets
filter	Add operation to History when...
all	Collect every operation in History
failures	Collect operations that fail in History
none	Shutoff History collection
overThreshold	Collect operations that are over threshold in History
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
<i>num-hours-of-stats</i>	Hour groups size value (default 2)
lives-kept	Maximum number of history lives to collect
statistics-distribution-interval	Statistics distribution interval size
<i>dist-interval</i>	Distribution interval value in msec (default 20)

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/tcp /exec/configure/ip-sla/icmpEcho

history

```
{ no | default } history { { buckets-kept } | { distributions-of-statistics-kept } | { filter } | {
hours-of-statistics-kept } | { lives-kept } | { statistics-distribution-interval } }
```

Syntax Description

no	
default	Set a command to its defaults
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture
filter	Add operation to History when...
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
lives-kept	Maximum number of history lives to collect
statistics-distribution-interval	Statistics distribution interval size

Command Mode

- /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho /exec/configure/ip-sla/http

history

```
history { { buckets-kept <num-buckets-kept> } | { distributions-of-statistics-kept <num-dist-stats> } | { filter
{ all | failures | none | overThreshold } } | { hours-of-statistics-kept <num-hours-of-stats> } | { lives-kept
<life-size-value> } | { statistics-distribution-interval <dist-interval> } }
```

Syntax Description

<i>dist-interval</i>	<num-buckets-kept>
<i>num-hours-of-stats</i>	<life-size-value>
<i>distributions-of-statistics-kept</i>	hours-of-statistics-kept
<i>statistics-distribution-interval</i>	
history	History and Distribution Data
buckets-kept	Maximum number of history buckets to collect
<i>num-buckets-kept</i>	Bucket size value (default 15)
<i>num-dist-stats</i>	Distribution bucket size value (default 1)
filter	Add operation to History when...
all	Collect every operation in History
failures	Collect operations that fail in History
none	Shutoff History collection
overThreshold	Collect operations that are over threshold in History
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
lives-kept	Maximum number of history lives to collect
<i>life-size-value</i>	Life size value (default 0)

Command Mode

- /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho /exec/configure/ip-sla/http

history

```
{ no | default } history { { distributions-of-statistics-kept } | { enhanced [ interval [ <interval-seconds> [ buckets [ <num-buckets> ] ] ] ] } | { hours-of-statistics-kept } | { statistics-distribution-interval } }
```

Syntax Description

no	
<i>interval</i>	(Optional) buckets
<i>distributions-of-statistics-kept</i>	hours-of-statistics-kept
<i>statistics-distribution-interval</i>	
default	Set a command to its defaults
history	History and Distribution Data
enhanced	Enable enhanced history collection
<i>interval-seconds</i>	(Optional) Interval in seconds
buckets	(Optional) Number of buckets to collect data
<i>num-buckets</i>	(Optional) Number of buckets
hours-of-statistics-kept	Maximum number of statistics hour groups to capture

Command Mode

- /exec/configure/ip-sla/jitter

history

```
history { { distributions-of-statistics-kept <num-dist-stats> } | { enhanced [ interval [ <interval-seconds> [
buckets [ <num-buckets> ] ] ] ] } | { hours-of-statistics-kept <num-hours-of-stats> } | {
statistics-distribution-interval <dist-interval> } }
```

Syntax Description

<i>interval</i>	(Optional) buckets
<i>num-buckets</i>	(Optional) <num-hours-of-stats>
<i>enhanced</i>	hours-of-statistics-kept
history	History and Distribution Data
distributions-of-statistics-kept	Maximum number of statistics distribution buckets to capture
<i>num-dist-stats</i>	Distribution bucket size value (default 1)
<i>interval-seconds</i>	(Optional) Interval in seconds
buckets	(Optional) Number of buckets to collect data
hours-of-statistics-kept	Maximum number of statistics hour groups to capture
<i>num-hours-of-stats</i>	Hour groups size value (default 2)
statistics-distribution-interval	Statistics distribution interval size
<i>dist-interval</i>	Distribution interval value in msec (default 20)

Command Mode

- /exec/configure/ip-sla/jitter

history buffer

```
[no] history buffer [ { size [ <onep-historysize> [ purge <historypurge> ] ] } | { purge <historypurge> [ size <onep-historysize> ] } | { session [ <appname-str> ] } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
history	One Platform history trails
buffer	In memory buffering of API history trails
session	(Optional) Session history filter
<i>appname-str</i>	(Optional) Full or partial session name
size	(Optional) History buffer size in bytes
<i>onep-historysize</i>	(Optional) Bytes (default: 32768)
purge	(Optional) Purge the oldest or newest session history
<i>historypurge</i>	(Optional) Purge session history

Command Mode

- /exec/configure/onep

history syslog

[no] history syslog

Syntax Description

no	(Optional) Negate a command or set its defaults
history	One Platform history trails
syslog	Enable the API history trails to syslog

Command Mode

- /exec/configure/onep

hold adjacency

hold adjacency <all>

Syntax Description

hold	Hold
adjacency	Display adjacency table
all	Hold all adjcencies

Command Mode

- /exec

hold ip route

```
hold ip { route | rnh } [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>
```

Syntax Description

hold	Hold
ip	IPv4
route	Hold routing information
rnh	Hold only RNH information
vrf	(Optional) 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
all	Hold all routes

Command Mode

- /exec

hold ipv6 route

```
hold ipv6 route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>
```

Syntax Description

hold	Hold
ipv6	IPv6
route	Hold routing information
vrf	(Optional) 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
all	Hold all routes

Command Mode

- /exec

hold timeout

hold timeout <timeout_val>

Syntax Description

hold	Hold timer
timeout	timer timeout
<i>timeout_val</i>	timeout duration in seconds

Command Mode

- /exec/configure/vpc-domain

holdtime

holdtime { infinite | <secs> } | no holdtime

Syntax Description

no	Negate a command or set its defaults
holdtime	LDP session holdtime
infinite	Ignore LDP session holdtime
<i>secs</i>	Holdtime in seconds

Command Mode

- /exec/configure/ldp

hop-limit maximum

[no] hop-limit maximum <limit>

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>limit</i>	Maximum hop count value allowed

Command Mode

- /exec/configure/config-ra-guard

hop-limit minimum

[no] hop-limit minimum <limit>

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>limit</i>	Minimum hop count value allowed

Command Mode

- /exec/configure/config-ra-guard

hop

{ hop <val> } | { no hop }

Syntax Description

no	Negate a command or set its defaults
hop	Configure ngoam hop count
<i>val</i>	Configure ngoam service hop count value

Command Mode

- /exec/configure/configngoamprofile

host-reachability protocol

[no] host-reachability protocol { bgp | openflow | openflow-ir }

Syntax Description

no	(Optional) Negate a command or set its defaults
host-reachability	Configure host reachability advertisement
protocol	Control protocol to use
bgp	Border Gateway Protocol
openflow	OpenFlow
openflow-ir	OpenFlow-IR

Command Mode

- /exec/configure/if-nve

host-reachability protocol controller

[no] host-reachability protocol controller <controller-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
host-reachability	Configure host reachability advertisement
protocol	Control protocol to use
controller	Controller
<i>controller-id</i>	Controller id value

Command Mode

- /exec/configure/if-nve

host

[no] { host <hostaddr> | <prefix> | <addr> <mask> }

Syntax Description

no	(Optional) Negate a command or set its defaults
host	Host address of the object-group member
<i>hostaddr</i>	A.B.C.D Host address
<i>addr</i>	A.B.C.D Network address of object-group member
<i>mask</i>	A.B.C.D wildcard
<i>prefix</i>	A.B.C.D/nn Network prefix of the object-group member

Command Mode

- /exec/configure/objgroup

hostname

{ hostname | switchname } <name> | no { hostname | switchname }

Syntax Description

no	Negate a command or set its defaults
hostname	Configure system's host name
switchname	Configure system's host name
<i>name</i>	Enter switchname

Command Mode

- /exec/configure

hostname dynamic

[no] hostname dynamic

Syntax Description

no	(Optional) Negate a command or set its defaults
hostname	Set dynamic hostname for IS-IS
dynamic	Dynamic hostname

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

hostname dynamic

[no] hostname dynamic

Syntax Description

no	(Optional) Negate a command or set its defaults
hostname	Set dynamic hostname for IS-IS
dynamic	Dynamic hostname

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

hsrp

[no] hsrp <group-id> [ipv4]

Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
<i>group-id</i>	Group number (0-255 for HSRPv1)
ipv4	(Optional) Configure IP Version 4 group

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

hsrp anycast

[no] hsrp anycast <id> { ipv4 | ipv6 | both }

Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP configuration commands
anycast	Anycast related commands
<i>id</i>	Bundle number
ipv4	Associate IP Version 4 for the bundle
ipv6	Associate IP Version 6 for the bundle
both	Associate IP Version 4 and 6 for the bundle

Command Mode

- /exec/configure

hsrp bfd

[no] hsrp bfd

Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
bfd	BFD protocol

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

hsrp bfd all-interfaces

[no] hsrp bfd all-interfaces

Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
bfd	BFD protocol
all-interfaces	On all interfaces

Command Mode

- /exec/configure

hsrp delay minimum

hsrp delay { minimum <min-delay> | reload <reload-delay> } + | no hsrp delay [minimum | reload]

Syntax Description

no	Negate a command or set its defaults
hsrp	HSRP interface configuration commands
delay	HSRP initialisation delay
minimum	Minimum delay
reload	Delay after reload
<i>min-delay</i>	<0-10000> Delay in seconds
<i>reload-delay</i>	<0-10000> Delay in seconds
<i>minimum</i>	(Optional) reload

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

hsrp force state vlan

hsrp force state vlan { <vlans> | all }

Syntax Description

hsrp	Hot Standby Router Protocol (HSRP) information
force	Move the HSRP state
state	HSRP state
vlan	HSRP state changes for these vlans
all	Include all HSRP configured VLANs
<i>vlans</i>	VLAN IDs of the VLAN for which state change will affect

Command Mode

- /exec

hsrp internal

[no] hsrp internal [debug-level <level>]

Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP commands
internal	HSRP internal information
debug-level	(Optional) enable debug level
<i>level</i>	(Optional) trace level

Command Mode

- /exec

hsrp internal

[no] hsrp internal [sequence-number] [[command <id>]] [<data1>] [<data2>] [<data3>]

Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP commands
internal	enable HSRP internals
sequence-number	(Optional) enable the sequence number transmit in Hellos
command	(Optional) Internal command specified through number
<i>id</i>	(Optional) Internal command value
<i>data1</i>	(Optional) Internal data1
<i>data2</i>	(Optional) Internal data2
<i>data3</i>	(Optional) Internal data3

Command Mode

- /exec

hsrp ipv6

[no] hsrp <group-id> ipv6

Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
<i>group-id</i>	Group number
ipv6	Configure IP Version 6 group

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

hsrp mac-refresh

hsrp mac-refresh [<time>] | no hsrp mac-refresh

Syntax Description

no	Negate a command or set its defaults
hsrp	HSRP interface configuration commands
mac-refresh	Interface mac-refresh time
<i>time</i>	(Optional) Timeout value (0-10000) in sec

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

hsrp timers extended-hold

[no] hsrp timers extended-hold [<extended-hold>]

Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
timers	Global Timers
extended-hold	Extended Hold
<i>extended-hold</i>	(Optional) Time in seconds

Command Mode

- /exec/configure

hsrp use-bia

[no] hsrp use-bia [scope interface]

Syntax Description

no	(Optional) Negate a command or set its defaults
hsrp	HSRP interface configuration commands
use-bia	HSRP uses interface's burned in address
scope	(Optional) Specify the scope of use-bia
interface	(Optional) Use-bia applies to all groups on this interface or sub-interface

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

hsrp version 1

hsrp version { 1 | 2 } | no hsrp version

Syntax Description

no	Negate a command or set its defaults
hsrp	HSRP interface configuration commands
version	HSRP version
1	Version 1
2	Version 2

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan-common /exec/configure/if-port-channel /exec/configure/if-sub /exec/configure/if-ethernet-all

http get

```
[no] http { get } <WORD> { [ cache { disable | enable } ] [ proxy <proxy-info> ] [ source-ip { <source-ip-hostname> | <source-ip-address> } ] [ source-port <src-port> ] [ version <http-version> ] } +
```

Syntax Description

no	(Optional)
<i>cache</i>	(Optional) enable
<i>proxy</i>	(Optional) <proxy-info>
<i>source-ip</i>	(Optional) <source-ip-hostname>
<i>source-port</i>	(Optional) <src-port>
<i>version</i>	(Optional) <http-version>
http	HTTP Operation
get	HTTP get operation
<i>WORD</i>	URL
enable	(Optional) enable download of cached entries (default)
disable	(Optional) disable download of cached entries (default)
<i>proxy-info</i>	(Optional) proxy information string
<i>source-ip-hostname</i>	(Optional) source IP hostname, broadcast disallowed
<i>source-ip-address</i>	(Optional) source IP address, broadcast disallowed
<i>src-port</i>	(Optional) Port Number (Recommended port range between 1025-65534)
<i>http-version</i>	(Optional) Supported HTTP versions are '1.0' and '1.1'.

Command Mode

- /exec/configure/ip-sla

human

| human

Syntax Description

	Pipe command output to filter
human	output in human format

Command Mode

- /output

human

| human

Syntax Description

	Pipe command output to filter
human	output in human format

Command Mode

- /output

hw-module logging onboard

[no] hw-module logging onboard [{ counter-stats | module <module> [{ counter-stats }] }]

Syntax Description

no	(Optional) Negate a command or set its defaults
hw-module	Enable/Disable OBFL information
logging	Enable/Disable OBFL information
onboard	Enable/Disable OBFL information
counter-stats	(Optional) Enable/Disable OBFL counter statistics
module	(Optional) Enable/Disable OBFL information for Module
<i>module</i>	(Optional) Enter module number

Command Mode

- /exec/configure

hw-module logging onboard

```
[no] hw-module logging onboard [ { environmental-history | error-stats | interrupt-stats | module <module>
[ { environmental-history | error-stats | interrupt-stats | obfl-logs | cpuhog } ] | obfl-logs | cpuhog } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
hw-module	Enable/Disable OBFL information
logging	Enable/Disable OBFL information
onboard	Enable/Disable OBFL information
environmental-history	(Optional) Enable/Disable OBFL environmental history
error-stats	(Optional) Enable/Disable OBFL error statistics
interrupt-stats	(Optional) Enable/Disable OBFL interrupt statistics
cpuhog	(Optional) Enable/Disable OBFL cpu hog events
module	(Optional) Enable/Disable OBFL information for Module
<i>module</i>	(Optional) Enter module number
obfl-logs	(Optional) Enable/Disable OBFL (boot-uptime/device-version/obfl-history)

Command Mode

- /exec/configure



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icam monitor entries acl module inst

[no] icam monitor entries acl module <module> inst <inst>

Syntax Description

no	(Optional) Negate a command or set its defaults
icam	intelligent CAM
monitor	icam monitor
entries	icam monitor entries stats
acl	icam monitor entries type ACL
module	Module Number
<i>module</i>	Enter Module Number
inst	ASIC/Forwarding Engine Instance Number
<i>inst</i>	Enter Instance Number

Command Mode

- /exec/configure

icam monitor entries multicast module

[no] icam monitor entries multicast module <module>

Syntax Description

no	(Optional) Negate a command or set its defaults
icam	intelligent CAM
monitor	icam monitor
entries	icam monitor entries stats
multicast	icam monitor entries type Multicast
module	Module Number
<i>module</i>	Enter Module Number

Command Mode

- /exec/configure

icam monitor interval num_intervals

[no] icam monitor interval <interval-hours> num_intervals <number-of-intervals>

Syntax Description

no	(Optional) Negate a command or set its defaults
icam	intelligent CAM
monitor	icam monitor
interval	icam monitor interval
<i>interval-hours</i>	icam monitor interval in hours
num_intervals	icam monitor history
<i>number-of-intervals</i>	number of intervals to keep in icam monitor history

Command Mode

- /exec/configure

icam monitor resource acl_tcam module inst

[no] icam monitor resource { acl_tcam | fib_tcam } module <module> inst <inst>

Syntax Description

no	(Optional) Negate a command or set its defaults
icam	intelligent CAM
monitor	icam monitor
resource	icam monitor resource utilization
acl_tcam	icam monitor resource type ACL TCAM
fib_tcam	icam monitor resource type FIB TCAM
module	Module Number
<i>module</i>	Enter Module Number
inst	ASIC/Forwarding Engine Instance Number
<i>inst</i>	Enter Instance Number

Command Mode

- /exec/configure

icmp-echo

```
[no] icmp-echo { <hostname> | <ip-address> | <ipv6-address> } { [ source-ip { <source-ip-hostname> | <source-ip-address> | <source-ipv6-address> } ] | [ source-interface <if_index> ] }
```

Syntax Description

no	(Optional)
<i>source-ip</i>	(Optional) source-interface
icmp-echo	ICMP Echo Operation
<i>hostname</i>	Destination hostname, broadcast disallowed
<i>ip-address</i>	Destination IP address, broadcast disallowed
source-interface	(Optional) Source Interface (ingress icmp packet interface)
<i>if_index</i>	(Optional) Source Interface
<i>source-ip-hostname</i>	(Optional) source IP hostname, broadcast disallowed
<i>source-ip-address</i>	(Optional) source IP address, broadcast disallowed

Command Mode

- /exec/configure/ip-sla

icmpv6 cache disable

[no] icmpv6 cache disable

Syntax Description

no	(Optional) Negate a command or set its defaults
icmpv6	ICMPv6 Commands
cache	Disable cache
disable	Disable cache

Command Mode

- /exec/configure

icmpv6 cfs-queue

{ icmpv6 cfs-queue <size> } | { no icmpv6 cfs-queue }

Syntax Description

no	Negate a command or set its defaults
icmpv6	ICMPv6 Commands
cfs-queue	cfs-queue
<i>size</i>	Size for adjacencies to be sent in CFSOE payload

Command Mode

- /exec/configure

icmpv6 library mts-queue

{ icmpv6 library mts-queue <size> } | { no icmpv6 library mts-queue }

Syntax Description

no	Negate a command or set its defaults
icmpv6	ICMPv6 Commands
library	library data queue
mts-queue	mts-queue
<i>size</i>	Size for icmpv6 data sap qlimit

Command Mode

- /exec/configure

icmpv6 mts-queue

```
{ icmpv6 mts-queue <size> } | { no icmpv6 mts-queue }
```

Syntax Description

no	Negate a command or set its defaults
icmpv6	ICMPv6 Commands
mts-queue	mts-queue
<i>size</i>	Size for icmpv6 data sap qlimit

Command Mode

- /exec/configure

import

import

Syntax Description

import	import
--------	--------

Command Mode

- /exec/configure

import interface

import interface <if0>

Syntax Description

import	import
interface	Interface configuration
<i>if0</i>	interface type and number in module/slot format

Command Mode

- /exec/configure

import l2vpn evpn

[no | default] import l2vpn evpn [route-map <import-map>] [reoriginate]

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
import	Import the routes into another AF
l2vpn	L2VPN
evpn	EVPN
reoriginate	(Optional) Reoriginate the route with new RT
route-map	(Optional) Apply route-map to specify import criteria
<i>import-map</i>	(Optional) Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6

import map

[no] import map <rmap-name> [evpn]

Syntax Description

no	(Optional) Negate a command or set its defaults
import	VRF import
map	Route-map based VRF import
<i>rmap-name</i>	Route-map name
evpn	(Optional) EVPN

Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

import running-config

import running-config [exclude interface ethernet]

Syntax Description

import	import
running-config	running-config
exclude	(Optional) Exclude
interface	(Optional) Exclude all interfaces of this type
ethernet	(Optional) running-config excluding physical interfaces

Command Mode

- /exec/configure

import vpn unicast

[no | default] import vpn unicast [route-map <import-map>] [reoriginate]

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
import	Import the routes into another AF
vpn	L3VPN
unicast	unicast
reoriginate	(Optional) Reoriginate the route with new RT
route-map	(Optional) Apply route-map to specify import criteria
<i>import-map</i>	(Optional) Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn

import vrf default map

import vrf default [<prefix-limit>] map <rmap-name> | no import vrf default [<prefix-limit>] map <rmap-name>

Syntax Description

no	Negate a command or set its defaults
import	VRF import
vrf	Virtual Router Context
default	VRF name (default)
<i>prefix-limit</i>	(Optional) Maximum prefix limit
map	Route-map based VRF import
<i>rmap-name</i>	Route-map name

Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

in-label allocate

[no] in-label <static-inlabel> allocate [policy { <prefix> <mask> | <prefix-mask> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
in-label	Configure local label assignment and forwarding for the LSP
allocate	Allocate this label
policy	(Optional) Allocate policy-based IP prefix
<i>static-inlabel</i>	Label Value
<i>prefix</i>	(Optional) Destination prefix
<i>mask</i>	(Optional) Destination prefix mask
<i>prefix-mask</i>	(Optional) Destination prefix/mask

Command Mode

- /exec/configure/mpls_static/ipv4/lsp

in-order-guarantee

[no] in-order-guarantee

Syntax Description

no	(Optional) Negate a command or set its defaults
in-order-guarantee	Enable IOD

Command Mode

- /exec/configure/policy-map/type/uf/class

include profile

[no] include profile { <all_conf_profile_name> }

Syntax Description

no	(Optional) Negate a command or set its defaults
include	Include a port-profile
profile	config-profile
<i>all_conf_profile_name</i>	Enter the name of the profile

Command Mode

- /exec/configure

include profile any

[no] include profile any

Syntax Description

no	(Optional) Negate a command or set its defaults
include	Include a port-profile
profile	config-profile
any	dynamically include profile during apply

Command Mode

- /exec/configure

index next

```
{ { index <index> { next-address [ loose | strict ] <ipaddr> | exclude-address <ipaddr> } } | { no index <index> } }
```

Syntax Description

no	Negate a command or set its defaults
index	Specify the next entry index to add, edit (or delete)
<i>index</i>	Previous index number
next-address	Specify the next address in the path
loose	(Optional) Target address is loose
strict	(Optional) Target address is strict
exclude-address	Exclude an address from subsequent partial path segments
<i>ipaddr</i>	Enter IP address (A.B.C.D)

Command Mode

- /exec/configure/te/expl-path

ingress-replication

ingress-replication <addr>

Syntax Description

ingress-replication	Configure ingress replication
<i>addr</i>	Remote Peer IP Address

Command Mode

- /exec/configure/if-nve/vni

ingress-replication protocol bgp

[no] ingress-replication protocol bgp

Syntax Description

no	(Optional) Negate a command or set its defaults
ingress-replication	Configure ingress replication
protocol	Control protocol to use
bgp	Border Gateway Protocol

Command Mode

- /exec/configure/if-nve/vni

ingress-replication protocol static

[no] ingress-replication protocol static

Syntax Description

no	(Optional) Negate a command or set its defaults
ingress-replication	Configure ingress replication
protocol	Control protocol to use
static	Static End-point Configuration

Command Mode

- /exec/configure/if-nve/vni

ingress

{ ingress <ifh> | no ingress }

Syntax Description

no	Negate a command or set its defaults
ingress	Ingress interface to determine enhanced forwarding enabled
<i>ifh</i>	Name of the interface for ngoam on which fabric forwarding is configured

Command Mode

- /exec/configure/configngoamprofile

ingress interface

[no] ingress interface <interface-ref> [next-hop <ip-addr>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ingress	ITD ingress interface
interface	ITD ingress interface
<i>interface-ref</i>	
next-hop	(Optional) next hop ip address
<i>ip-addr</i>	(Optional) Next hop IPv4 address connected to ingress intrerface

Command Mode

- /exec/configure/itd /exec/configure/itd-inout

ingress interface

[no] ingress interface <interface-ref> [next-hop <ip-addr>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ingress	Configure ingress interface for PLB service
interface	Ingress interface
<i>interface-ref</i>	
next-hop	(Optional) next hop ip address
<i>ip-addr</i>	(Optional) Next hop IPv4 address connected to ingress intrerface

Command Mode

- /exec/configure/plb /exec/configure/plb-inout

inherit peer-policy

[no] inherit peer-policy <peer-policy-template-name> <policy-preference>

Syntax Description

no	(Optional) Negate a command or set its defaults
inherit	Inherit a template
peer-policy	Inherit a peer-policy template
<i>peer-policy-template-name</i>	Template name
<i>policy-preference</i>	Sequence number

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-link-state
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

inherit peer-policy

[no] inherit peer-policy <peer-policy-template-name> <policy-preference>

Syntax Description

no	(Optional) Negate a command or set its defaults
inherit	Inherit a template
peer-policy	Inherit a peer-policy template
<i>peer-policy-template-name</i>	Template name
<i>policy-preference</i>	Sequence number

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls

inherit peer-session

[no] inherit peer-session <peer-session-template-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
inherit	Inherit a template
peer-session	Inherit a peer-session template
<i>peer-session-template-name</i>	Template name

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

inherit peer

[no] inherit peer <peer-template-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
inherit	Inherit a template
peer	Inherit a peer template
<i>peer-template-name</i>	Peer template name

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-vrf-neighbor
/exec/configure/router-bgp/router-bgp-prefixneighbor
/exec/configure/router-bgp/router-bgp-vrf-prefixneighbor

inherit port-profile

[no] inherit port-profile { <s0> | <s1> }

Syntax Description

no	(Optional) Negate a command or set its defaults
inherit	Inherit a port-profile
port-profile	Inherit a port-profile
<i>s0</i>	Enter the name of the profile
<i>s1</i>	Enter the name of the profile

Command Mode

- /exec/configure/if-any /exec/configure/if-port-channel exec/configure/if-port-channel-range /exec/configure/if-ethernet-m /exec/configure/if-ethernet-switch-m /exec/configure/if-te /exec/configure/if-pseudowire

initial-delay

[no] initial-delay <time-in-sec>

Syntax Description

no	(Optional) Negate a command or set its defaults
initial-delay	Configure delay interval to connect to the BMP server
<i>time-in-sec</i>	Delay value

Command Mode

- /exec/configure/router-bgp/router-bgp-bmp-server

initial-refresh skip

[no] initial-refresh { skip | delay <time-in-sec> }

Syntax Description

no	(Optional) Negate a command or set its defaults
initial-refresh	Configure initial-refresh for the BMP server
skip	Skip sending the initial route update to the BMP server
delay	Delay after which the initial route update is sent to the BMP server
<i>time-in-sec</i>	Delay value

Command Mode

- /exec/configure/router-bgp/router-bgp-bmp-server

inject-map exist-map

[no] inject-map <inject-map-name> exist-map <exist-map-name> [copy-attributes]

Syntax Description

no	(Optional) Negate a command or set its defaults
inject-map	Routemap which specifies prefixes to inject
<i>inject-map-name</i>	Route-map name
exist-map	Routemap which specifies exist condition
<i>exist-map-name</i>	Route-map name
copy-attributes	(Optional) Copy attributes from aggregate

Command Mode

- /exec/configure/router-bgp/router-bgp-af

install activate

install activate <patch> + [forced]

Syntax Description

install	Install package
activate	Activate package
<i>patch</i>	Package Name
forced	(Optional) non-interactive

Command Mode

- /exec

install add

```
install add { <package-name> | <uri1> } [ vrf <vrf-known-name> ] [ [ activate [ upgrade | downgrade ] ] [ forced ] ]
```

Syntax Description

install	Install package
add	Add package
<i>package-name</i>	Package name
<i>uri1</i>	Enter package uri
vrf	(Optional) Display per-VRF information
<i>vrf-known-name</i>	(Optional) Known VRF name
activate	(Optional) Activate package
forced	(Optional) non-interactive
upgrade	(Optional) Upgrade package
downgrade	(Optional) Downgrade package

Command Mode

- /exec

install all

```
install { all [ nxos <uri> | kickstart <uri1> | system <uri3> | serial ] + [ force ] [ non-disruptive | no-reload |
noswitchover ] [ bios | no-save ] [ bios-force ] [ non-interruptive ] [ compact ] | force-all [ nxos <uri> | serial
] + [ non-disruptive ] [ force ] }
```

Syntax Description

install	upgrade software
all	Upgrade the system
kickstart	(Optional) boot-variable name
<i>uri1</i>	(Optional) Enter image uri
system	(Optional) boot-variable name
<i>uri3</i>	(Optional) Enter image uri
no-reload	(Optional) Exit right before reload during install.
noswitchover	(Optional) Exit right before reload during install.
non-interruptive	(Optional) Non-Interruptive install.
no-save	(Optional) Config not saved. Manually save config before starting install all
bios	(Optional) BIOS Only
bios-force	(Optional) Forcefully upgrade bios.
force	(Optional) Forcefully allow ISSU with target image .
non-disruptive	(Optional) Non-Disruptive install.
compact	(Optional) Compact image to make it nexus 3k only
nxos	(Optional) boot-variable name
<i>uri</i>	(Optional) Enter image uri
serial	(Optional) Upgrade linecards in serial
force-all	Force upgrade the system

Command Mode

- /exec

install all network-os

install all network-os <uri>

Syntax Description

install	upgrade software
all	Upgrade the system
network-os	non-cisco OS
<i>uri</i>	Enter image uri

Command Mode

- /exec

install commit

install commit [<patch>]

Syntax Description

install	Install package
commit	Commit software patch
<i>patch</i>	(Optional) Package Name

Command Mode

- /exec

install deactivate

install deactivate <patch> + [forced]

Syntax Description

install	Install package
deactivate	Deactivate package
<i>patch</i>	Package Name
forced	(Optional) non-interactive

Command Mode

- /exec

install epld

```
install epld <uri1> { { module { <module> } [ force ] } }
```

Syntax Description

install	upgrade software
epld	Install EPLD from EPLD image
<i>uri1</i>	Local URI containing EPLD Image
module	Enter the module number or module range
<i>module</i>	x or x-y
force	(Optional) Force Install EPLD from EPLD image

Command Mode

- /exec

install epld

```
install epld <uri> { { module { all } [ force ] } }
```

Syntax Description

install	upgrade software
epld	Install EPLD from EPLD image
<i>uri</i>	Local URI containing EPLD Image
module	Upgrade the modules
all	Install all the modules
force	(Optional) Force Install EPLD from EPLD image

Command Mode

- /exec

install epld

```
install epld <uri1> { { module { <module> } { primary | golden } [ force ] } }
```

Syntax Description

install	upgrade software
epld	Install EPLD from EPLD image
<i>uri1</i>	Local URI containing EPLD Image
module	Enter the module number or module range
<i>module</i>	x or x-y
primary	Upgrade primary fpga image
golden	Upgrade golden fpga image
force	(Optional) Force Install EPLD from EPLD image

Command Mode

- /exec

install epld

```
install epld <uri1> { { module { all } { primary | golden } [ force ] } }
```

Syntax Description

install	upgrade software
epld	Install EPLD from EPLD image
<i>uri1</i>	Local URI containing EPLD Image
module	Upgrade the modules
all	Install all the modules
primary	Upgrade primary fpga image
golden	Upgrade golden fpga image
force	(Optional) Force Install EPLD from EPLD image

Command Mode

- /exec

install epld psu

install epld <uri> psu

Syntax Description

install	upgrade software
epld	Install EPLD from EPLD image
<i>uri</i>	Local URI containing EPLD Image
psu	Upgrade PSU firmware

Command Mode

- /exec

install feature-set fcoe-npv

[no] install feature-set fcoe-npv

Syntax Description

no	(Optional) Negate a command or set its defaults
install	install a feature-set
feature-set	install feature-set
fcoe-npv	FCOE-NPV

Command Mode

- /exec/configure

install feature-set fex

[no] install feature-set fex

Syntax Description

no	(Optional) Negate a command or set its defaults
install	install a feature-set
feature-set	install feature-set
fex	FEX

Command Mode

- /exec/configure

install feature-set mpls

[no] install feature-set mpls

Syntax Description

no	(Optional) Negate a command or set its defaults
install	install a feature-set
feature-set	install feature-set
mpls	MPLS

Command Mode

- /exec/configure

install license

install license <uri0> [<s0>]

Syntax Description

install	upgrade software
license	install license
<i>uri0</i>	Specify URL for license file
<i>s0</i>	(Optional) Specify a target name for the license file

Command Mode

- /exec

install module

```
install module <module> { bios [ [ system <uri0> ] [ forced2 ] ] | bios [ primary | golden ] [ forced ] | image
[ { forced1 | system1 <uri1> } ] }
```

Syntax Description

install	upgrade software
module	Upgrade for module
<i>module</i>	Enter module index
bios	Upgrade module bios
system	(Optional) System Image
<i>uri0</i>	(Optional) Local URI containing the system Image
forced2	(Optional) Force install bios
primary	(Optional) Upgrade the Primary bios
golden	(Optional) Upgrade the Golden bios
forced	(Optional) Force install bios
image	Upgrade module image
forced1	(Optional) Bypass SRG check
system1	(Optional) System Image
<i>uri1</i>	(Optional) Local URI containing the system Image

Command Mode

- /exec

install remove

install remove { <patch> | inactive } [forced]

Syntax Description

install	Install package
remove	Remove package
<i>patch</i>	Package Name
inactive	All inactive except non-committed packages
forced	(Optional) Remove package

Command Mode

- /exec

install reset

install reset

Syntax Description

install	Install package
reset	Reset software patches and packages to base version

Command Mode

- /exec

Usage Guidelines

Use this command to remove all application persistency files such as patch rpms, third party rpms, and application configuration in the /etc directory other than configuration.

instance-id

[no] instance-id <iid>

Syntax Description

no	(Optional) Negate a command or set its defaults
instance-id	Configures Instance-ID for global data-mappings
<i>iid</i>	24-bit instance-ID value

Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

instance

[no] instance <plistinst> [cross-check] | instance <plistinst>

Syntax Description

no	Negate a command or set its defaults
instance	Configure a parameter list instance
<i>plistinst</i>	Enter the name of the parameter list instance
cross-check	(Optional) Explicitly search for referencing config profile

Command Mode

- /exec/configure/param-list

instance

[no] instance <instance-id> [vlan <vlan-list>]

Syntax Description

no	Negate a command or set its defaults
instance	Map vlans to an MST instance
<i>instance-id</i>	MST instance id
vlan	(Optional) Range of vlans to add to the instance mapping
<i>vlan-list</i>	(Optional) vlan range ex: 1-65, 72, 200 - 300

Command Mode

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

instance vlan

instance <instance-id> vlan <vlan-list>

Syntax Description

instance	Map vlans to an MST instance
<i>instance-id</i>	MST instance id
vlan	Range of vlans to add to the instance mapping
<i>vlan-list</i>	vlan range ex: 1-65, 72, 200 - 300

Command Mode

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

interface-vlan reset credits

interface-vlan reset credits [<count>]

Syntax Description

interface-vlan	Vlan Interface
reset	Reset SVI Credits
credits	SVI Credits
<i>count</i>	(Optional) Set SVI Credit Count

Command Mode

- /exec/configure

interface-vlan reset fsm

interface-vlan <vlan-id> reset fsm

Syntax Description

interface-vlan	Vlan Interface
<i>vlan-id</i>	VLAN Id
reset	Reset SVI Credits
fsm	SVI FSM

Command Mode

- /exec/configure

interface

{ interface <interface-range> } | { no interface }

Syntax Description

no	Negate a command or set its defaults
interface	Configure ngoam egress interface
<i>interface-range</i>	Configure ngoam egress interface

Command Mode

- /exec/configure/configngoamprofile

interface

[no] interface <interface-ref>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	egress interface
<i>interface-ref</i>	

Command Mode

- /exec/configure/itd-port-grp

interface

[no] interface <interface-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Applied interface
<i>interface-id</i>	Name of interface

Command Mode

- /exec/configure/static-host/dot1q /exec/configure/static-host/vni

interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

Command Mode

- /exec/configure

interface

interface <interface>

Syntax Description

interface	Configure interfaces
<i>interface</i>	Interface Name

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

no	Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

Command Mode

- /exec/configure

interface

[no] interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	Configure interfaces
<i>interface</i>	Interface Name

Command Mode

- /exec/configure

interface

[no] interface <interface-ref>

Syntax Description

no	(Optional) Negate a command or set its defaults
interface	egress interface
<i>interface-ref</i>	

Command Mode

- /exec/configure/itd-port-grp

interface breakout module

interface breakout module <module>

Syntax Description

interface	Configure interfaces
breakout	Configuring the breakout for a module
module	High Bandwidth Module
<i>module</i>	High Bandwidth Module number

Command Mode

- /exec/configure

interface breakout module

[no] interface breakout module <module>

Syntax Description

no	Negate a command or set its defaults
interface	Configure interfaces
breakout	Configuring the breakout for a module
module	High Bandwidth Module
<i>module</i>	High Bandwidth Module number

Command Mode

- /exec/configure

interface breakout module port map

```
interface breakout module <module> port <port_num> map <breakout_map>
```

Syntax Description

interface	Configure interfaces
breakout	Configuring the breakout for an interface
module	High Bandwidth Module
<i>module</i>	High Bandwidth Module number
port	High Bandwidth Port(HBP)
<i>port_num</i>	Parent(HBP / Front-panel) port to be broken out
map	Breakout Map
<i>breakout_map</i>	Breakout Map to be applied to the parent port

Command Mode

- /exec/configure

interface breakout module port map

[no] interface breakout module <module> port <port_num> map <breakout_map>

Syntax Description

no	Negate a command or set its defaults
interface	Configure interfaces
breakout	Configuring the breakout for an interface
module	High Bandwidth Module
<i>module</i>	High Bandwidth Module number
port	High Bandwidth Port(HBP)
<i>port_num</i>	Parent(HBP / Front-panel) port to be broken out
map	Breakout Map
<i>breakout_map</i>	Breakout Map to be applied to the parent port

Command Mode

- /exec/configure

interface down delay

[no] interface down delay |

Syntax Description

<i>down</i>	delay
no	Negate a command or set its defaults
interface	Add tunnel interface config
delay	Tunnel interface down delay config

Command Mode

- /exec/configure/if-te

interop-enable

[no] interop-enable

Syntax Description

no	(Optional) Negate a command or set its defaults
interop-enable	Enable interoperability with IOS XR boxes in the network

Command Mode

- /exec/configure/otv-isis

interval

{ interval <interval> }

Syntax Description

interval	Wait
<i>interval</i>	Interval

Command Mode

- /exec/configure/configngoamconnectcheck

ip

[no] ip [<ipaddress> [secondary]]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Set Virtual IP address
<i>ipaddress</i>	(Optional) Virtual IP address
secondary	(Optional) Make this a secondary IP address

Command Mode

- /exec/configure/if-eth-any/glbp

ip

```
{ { ip <dstip> <srcip> | ipv6 <dstipv6> <srcipv6> } }
```

Syntax Description

ip	ip address
<i>dstip</i>	Destination ipv4 address
<i>srcip</i>	source ipv4 address
ipv6	ipv6 address

Command Mode

- /exec/configure/configngoamccpayload

ip

ip [<ipaddress> | <ipprefix>] | no ip [<ipaddress> | <ipprefix>]

Syntax Description

no	Negate a command or set its defaults
ip	Enable HSRP IPv4 and set the virtual IP address
<i>ipaddress</i>	(Optional) Virtual IP address
<i>ipprefix</i>	(Optional) Virtual IP address and mask length

Command Mode

- /exec/configure/if-eth-any/hsrp_ipv4

ip

ip { <ipv6address> | autoconfig } | no ip [{ <ipv6address> | autoconfig }]

Syntax Description

no	Negate a command or set its defaults
ip	Enable HSRP IPv6 and set the virtual IP address
autoconfig	Obtain address using autoconfiguration

Command Mode

- /exec/configure/if-eth-any/hsrp_ipv6

ip

[no] ip <ipaddr>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	ip address of redundancy group member
<i>ipaddr</i>	Redundancy-group node IP address

Command Mode

- /exec/configure/if-nve/rgrp

ip

```
[no] ip { { group <gaddr> } | { group-range <gaddr_start> to <gaddr_end> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	IP Address
group	Multicast group
<i>gaddr</i>	IPv4 group address
group-range	Multicast Group address range
<i>gaddr_start</i>	First Group address
to	Range
<i>gaddr_end</i>	Last Group address

Command Mode

- /exec/configure/nbm-flow/policy

ip access-class

[no] ip access-class <name> <inout>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
access-class	Specify IPv4 access control for packets
<i>name</i>	List name
<i>inout</i>	Traffic direction

Command Mode

- /exec/configure/line

ip access-group

[no] ip access-group <name> <inout>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
access-group	Specify access control for packets
<i>name</i>	List name
<i>inout</i>	Traffic direction

Command Mode

- /exec/configure/if-set-acl-l3

ip access-list

[no] ip access-list <name> [client <clienttype> <clientID>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
access-list	Configure access list
<i>name</i>	List name
client	(Optional) set client type
<i>clienttype</i>	(Optional) CLI/ONEP
<i>clientID</i>	(Optional) client appID

Command Mode

- /exec/configure

ip access-list match-local-traffic

[no] ip access-list match-local-traffic | ip access-list match-local-traffic

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
access-list	Configure access list
match-local-traffic	Enable access-list matching for locally generated traffic

Command Mode

- /exec/configure

ip address

[no] ip address [{ <ip-addr> <ip-mask> | <ip-prefix> } [route-preference <pref>] [tag <tag>]] | ip address { <ip-addr> <ip-mask> | <ip-prefix> } [route-preference <pref>] [tag <tag>]

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
address	Configure IP address on interface
<i>ip-addr</i>	(Optional) IP address in format i.i.i.i
<i>ip-mask</i>	(Optional) IP network mask in format m.m.m.m
<i>ip-prefix</i>	(Optional) IP prefix and network mask length in format x.x.x.x/m
route-preference	(Optional) URIB route preference for local/direct routes
<i>pref</i>	(Optional) Local/direct route preference
tag	(Optional) URIB route tag value for local/direct routes
<i>tag</i>	(Optional) Local/direct tag value

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-mpls-tunnel /exec/configure/if-gre-tunnel /exec/configure/if-vsant /exec/configure/if-cpp

ip address dhcp

[no] ip address dhcp

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
address	Configure IP address on interface
dhcp	Configure IP address from a dhcp server

Command Mode

- /exec/configure/if-vlan /exec/configure/if-ethernet /exec/configure/if-mgmt-config /exec/configure/if-ethernet-all /exec/configure/if-sub

ip address secondary

```
[no] ip address { <ip-addr> <ip-mask> | <ip-prefix> } secondary [ route-preference <pref> ] [ tag <tag> ] | ip
address { <ip-addr> <ip-mask> | <ip-prefix> } secondary [ route-preference <pref> ] [ tag <tag> ]
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
address	Configure IP address on interface
<i>ip-addr</i>	IP address in format i.i.i.i
<i>ip-mask</i>	IP network mask in format m.m.m.m
<i>ip-prefix</i>	IP prefix and network mask length in format x.x.x.x/m
secondary	Configure additional IP addresses on interface
route-preference	(Optional) URIB route preference for local/direct routes
<i>pref</i>	(Optional) Local/direct route preference
tag	(Optional) URIB route tag value for local/direct routes
<i>tag</i>	(Optional) Local/direct tag value

Command Mode

- /exec/configure/if-igmp /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config
/exec/configure/if-gre-tunnel /exec/configure/if-6to4-tunnel /exec/configure/if-vsan /exec/configure/if-cpp

ip adjacency cache disable

[no] ip adjacency cache disable

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
adjacency	Configure Adjmgr
cache	Disable cache
disable	Disable cache

Command Mode

- /exec/configure

ip adjacency forcedownload

```
ip adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <interface> { * | <ip-addr> } | * } forcedownload
```

Syntax Description

ip	Configure IP features
adjacency	Configure Adjmgr
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	Display specific interface adjacencies only
<i>ip-addr</i>	IPV4 source address
*	for all adjacencies in this context
forcedownload	Create consistency in UFDM

Command Mode

- /exec/configure

ip adjacency l2fm-reg

```
[no] ip adjacency l2fm-reg { [ vrf <vrf-known-name> ] | <interface> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
adjacency	Configure Adjmgr
l2fm-reg	Register with l2fm
vrf	(Optional) vrf name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	Interface name

Command Mode

- /exec/configure

ip adjacency notify interval

{ ip adjacency notify interval <time> } | { no ip adjacency notify interval }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
adjacency	Configure Adjmgr
notify	Notify URIB/FIB
interval	Time interval
<i>time</i>	value in milli seconds

Command Mode

- /exec/configure

ip adjacency peer-gmac

[no] ip adjacency [vrf { <vrf-name> | <vrf-known-name> }] { <interface> { * | <ip-addr> } | * } peer-gmac

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
adjacency	Configure Adjmgr
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	Display specific interface adjacencies only
<i>ip-addr</i>	IPV4 source address
*	for all adjacencies in this context
peer-gmac	Set/clear the peer-gmac bit

Command Mode

- /exec/configure

ip adjacency remote-adj

[no] ip adjacency [vrf { <vrf-name> | <vrf-known-name> }] { <interface> { * | <ip-addr> } | * } remote-adj

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
adjacency	Configure Adjmgr
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	Display specific interface adjacencies only
<i>ip-addr</i>	IPV4 source address
*	for all adjacencies in this context
remote-adj	Set/clear the remote-adj bit

Command Mode

- /exec/configure

ip adjacency route distance

{ ip adjacency route distance <pref> } | { no ip adjacency route distance }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
adjacency	Configure Adjmgr
route	route
distance	admin-distance
<i>pref</i>	preference

Command Mode

- /exec/configure

ip adjacency statistics collect

{ ip adjacency statistics collect } | { no ip adjacency statistics collect }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
adjacency	Configure Adjmgr
statistics	Statistics
collect	Collection

Command Mode

- /exec/configure

ip adjacency statistics interval

{ ip adjacency statistics interval <time> } | { no ip adjacency statistics interval }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
adjacency	Configure Adjmgr
statistics	Statistics
interval	Interval
<i>time</i>	Timer timeout value

Command Mode

- /exec/configure

ip adjmgr internal event-history size

```
[no] ip adjmgr internal event-history { control | errors | ipc | stats | ha | cli | sdb | snmp | nb | dme-event | event
} size { <size_in_text> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
adjmgr	AM information
internal	Commands for internal use
event-history	various event logs of Adjmgr
control	Control logs of Adjmgr
errors	error logs of Adjmgr
ipc	ipc debug message logs of Adjmgr
stats	stats debug message logs of Adjmgr
ha	ha debug message logs of Adjmgr
cli	cli related events of Adjmgr
sdb	sdb debug message logs of Adjmgr
snmp	snmp debug message logs of Adjmgr
nb	netbroker debug message logs of Adjmgr
dme-event	dme event logs of Adjmgr
event	events debug message logs of Adjmgr
size	Configure the size of the event-hist buffer
<i>size_in_text</i>	Buffer size

Command Mode

- /exec/configure

ip adjmgr internal event-history size

```
[no] ip adjmgr internal event-history { control | errors | ipc | stats | ha | cli | sdb | snmp | nb | dme-event | event
} size { <size_in_Kbytes> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
adjmgr	AM information
internal	Commands for internal use
event-history	various event logs of Adjmgr
control	Control logs of Adjmgr
errors	error logs of Adjmgr
ipc	ipc debug message logs of Adjmgr
stats	stats debug message logs of Adjmgr
ha	ha debug message logs of Adjmgr
cli	cli related events of Adjmgr
sdb	sdb debug message logs of Adjmgr
snmp	snmp debug message logs of Adjmgr
nb	netbroker debug message logs of Adjmgr
dme-event	dme event logs of Adjmgr
event	events debug message logs of Adjmgr
size	Configure the size of the event-hist buffer
<i>size_in_Kbytes</i>	Size of the file in kbytes

Command Mode

- /exec/configure

ip allow address-overlap

[no] ip allow address-overlap

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
allow	Allow interface IP address overlap
address-overlap	Allow interface IP address overlap

Command Mode

- /exec/configure

ip allow port

{ ip allow port { <allow_ports> | none } | no ip allow port [<allow_ports> | none] }

Syntax Description

no	Negate a command or set its defaults
ip	IP protocol
port	Well known UDP/TCP ports
allow	Restrict the set of allowed ports
<i>allow_ports</i>	Comma separated list of ports or ranges
none	Disallow binding to any ports

Command Mode

- /exec/configure/virt-serv

ip amt anycast-gateway-address

```
{ { ip amt anycast-gateway-address <address> } | { no ip amt anycast-gateway-address [ <address> ] } } | {
ipv6 amt anycast-gateway-address <address6> } | { no ipv6 amt anycast-gateway-address [ <address6> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
anycast-gateway-address	Configure anycast address for AMT gateway
<i>address</i>	IP anycast address of AMT gateway

Command Mode

- /exec/configure /exec/configure/vrf

ip amt anycast-relay-prefix

{ { ip amt anycast-relay-prefix <prefix> } | { no ip amt anycast-relay-prefix [<prefix>] } } | { { ipv6 amt anycast-relay-prefix <prefix6> } | { no ipv6 amt anycast-relay-prefix [<prefix6>] } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
anycast-relay-prefix	Configure anycast prefix for AMT relay
<i>prefix</i>	IP anycast prefix for AMT relay

Command Mode

- /exec/configure /exec/configure/vrf

ip amt gateway

[no] ip amt gateway

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
amt	AMT global configuration commands
gateway	Configures IPv4 AMT gateway functionality

Command Mode

- /exec/configure /exec/configure/vrf

ip amt gateway send-discovery

[no] ip amt gateway send-discovery

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
amt	AMT global configuration commands
gateway	Configures IP AMT gateway functionality
send-discovery	Trigger a Discovery message to the Anycast address

Command Mode

- /exec/configure /exec/configure/vrf

ip amt join-policy

```
{ [ no ] { ip | ipv6 } amt join-policy <route-map> [ gateway <groute-map> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
join-policy	Configures what (S,G) are allowed to be joined
<i>route-map</i>	Route-map describing (S,G) entries allowed
gateway	(Optional) Configure join-policy per gateway
<i>groute-map</i>	(Optional) Route-map describing gateway or sets of gateways

Command Mode

- /exec/configure /exec/configure/vrf

ip amt qqic

[no] { ip | ipv6 } amt qqic <qqic-value>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
qqic	Configure Querier's Query Interval Code
<i>qqic-value</i>	QQIC value

Command Mode

- /exec/configure /exec/configure/vrf

ip amt relay-advertisement-address

```
{ { ip amt relay-advertisement-address <address> } | { no ip amt relay-advertisement-address [ <address> ] } }
{ { ipv6 amt relay-advertisement-address <address6> } | { no ipv6 amt relay-advertisement-address [ <address6> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
relay-advertisement-address	Address to use by AMT relay
<i>address</i>	IP unicast address for AMT relay to use

Command Mode

- /exec/configure /exec/configure/vrf

ip amt relay

[no] ip amt relay

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
amt	AMT global configuration commands
relay	Configures IPv4 AMT relay functionality

Command Mode

- /exec/configure /exec/configure/vrf

ip amt state-limit

```
{ [ no ] { ip | ipv6 } amt state-limit <limit> [ gateway <route-map> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
state-limit	Configure the maximum number of (S,G) entries allowed
<i>limit</i>	Number of entries total or per AMT gateway
gateway	(Optional) Configure state limit per gateway
<i>route-map</i>	(Optional) Route-map describing gateway or sets of gateways

Command Mode

- /exec/configure /exec/configure/vrf

ip amt tunnel-limit

```
{ { { ip | ipv6 } amt tunnel-limit <limit> } | { no { ip | ipv6 } amt tunnel-limit [ <limit> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
amt	AMT global configuration commands
tunnel-limit	Configure the maximum tunnels allowed
<i>limit</i>	Number of tunnels

Command Mode

- /exec/configure /exec/configure/vrf

ip arp

```
{ ip arp { [ am mts-batch <batch-timer> ] | [ lookup_timeout <l2rib-timer> ] } }
```

Syntax Description

ip	Configure IP features
arp	Configure ARP parameters
am	(Optional) Adjacency Manager
mts-batch	(Optional) Configure ARP-AM mts batch count
lookup_timeout	(Optional) arp_l2rib_lookup_timeout
<i>batch-timer</i>	(Optional) Interval in milliseconds
<i>l2rib-timer</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure

ip arp

```
{ ip arp <ip-address> <mac-address> | no ip arp <ip-address> [ <mac-address> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
<i>ip-address</i>	IP address
<i>mac-address</i>	MAC address

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan-common

ip arp allow-static-arp-outside-subnet

[no] ip arp allow-static-arp-outside-subnet

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
allow-static-arp-outside-subnet	Allow static ARP outside interface subnet

Command Mode

- /exec/configure

ip arp broadcast mac-mismatch

{ ip arp broadcast mac-mismatch } | { no ip arp broadcast mac-mismatch }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
broadcast	Enable/disable arp broadcast
mac-mismatch	when there is a smac mismatch

Command Mode

- /exec/configure

ip arp cache disable

[no] ip arp cache disable

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
cache	Disable cache
disable	Disable cache

Command Mode

- /exec/configure

ip arp cache limit

```
{ { ip arp cache limit <max> } | { no ip arp cache limit } } [ syslog <rate> ]
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
cache	ARP cache parameters
limit	Limit size of ARP adjacencies cache
<i>max</i>	Maximum number of ARP entries
syslog	(Optional) Syslog messages
<i>rate</i>	(Optional) Syslogs per second

Command Mode

- /exec/configure

ip arp cfs-queue

{ ip arp cfs-queue <size> } | { no ip arp cfs-queue }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	ARP
cfs-queue	cfs-queue
<i>size</i>	Size for adjacencies to be sent in CFSOE payload

Command Mode

- /exec/configure

ip arp cos

{ ip arp cos <cosval> } | { no ip arp cos }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
cos	COS for ARP packet
<i>cosval</i>	COS value

Command Mode

- /exec/configure

ip arp delete

```
{ ip arp { delete-adj-on-mac-delete | refresh-adj-on-mac-delete <time-out> } | no ip arp {
delete-adj-on-mac-delete | refresh-adj-on-mac-delete } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
delete-adj-on-mac-delete	Delete the adjacency on MAC delete
refresh-adj-on-mac-delete	Set refresh timer for mac delete trigger
<i>time-out</i>	Refresh value in milliseconds

Command Mode

- /exec/configure/if-vlan-common

ip arp event-history size

```
[no] ip arp event-history { packet | event | sync-event | ip-sync-event | control | ha | errors | lcache | lcache-errors
| client-event | client-errors | snmp | cli | suppression-event | suppression-errors | controller-errors | dme-event
} size { <size_in_text> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	IP events
arp	Configure ARP parameters
event-history	log debug events into event history buffer
packet	inst packet logs
event	Internal event logs
sync-event	CFS and MCECM related event logs
ip-sync-event	L3 over vpc events
control	ARP control event logs
ha	HA and GR logs
errors	inst error logs
lcache	lcache logs
lcache-errors	lcache_error logs
client-event	Client_event logs
client-errors	Client_error logs
cli	cli logs
snmp	SNMP logs
suppression-event	ARP suppression event logs
suppression-errors	ARP suppression error logs
controller-errors	Controller MAC-IP route error logs
dme-event	ARP DME event logs
size	Configure the size of the event-hist buffer
<i>size_in_text</i>	Buffer size

Command Mode

- /exec/configure

ip arp event-history size

```
[no] ip arp event-history { packet | event | sync-event | ip-sync-event | control | ha | errors | lcache | lcache-errors
| client-event | client-errors | snmp | cli | suppression-event | suppression-errors | controller-errors | dme-event
} size { <size_in_Kbytes> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	IP events
arp	Configure ARP parameters
event-history	log debug events into event history buffer
packet	inst packet logs
event	Internal event logs
sync-event	CFS and MCECM related event logs
ip-sync-event	L3 over vpc events
control	ARP control event logs
ha	HA and GR logs
errors	inst error logs
lcache	lcache logs
lcache-errors	lcache_error logs
client-event	Client_event logs
client-errors	Client_error logs
cli	cli logs
snmp	SNMP logs
suppression-event	ARP suppression event logs
suppression-errors	ARP suppression error logs
controller-errors	Controller MAC-IP route error logs
dme-event	ARP DME event logs
size	Configure the size of the event-hist buffer
<i>size_in_Kbytes</i>	Size of the file in kbytes

Command Mode

- /exec/configure

ip arp garp-storm

{ ip arp garp-storm } | { no ip arp garp-storm }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
garp-storm	Configure timer values for garp-storm

Command Mode

- /exec/configure

ip arp garp-storm timer count

```
{ ip arp garp-storm timer <garp-timer> count <garp-count> } | { no ip arp garp-storm timer <garp-timer>
count <garp-count> }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
garp-storm	Configure timer values for garp-storm
timer	Set the garp-storm timer value in seconds
<i>garp-timer</i>	Timer value in seconds
count	Set the garp count value
<i>garp-count</i>	Timer value in seconds

Command Mode

- /exec/configure

ip arp gratuitous hsrp duplicate

{ ip arp gratuitous hsrp duplicate | no ip arp gratuitous hsrp duplicate }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
gratuitous	gratuitous
hsrp	hsrp
duplicate	duplicate address detection

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan-common

ip arp gratuitous request

{ ip arp gratuitous request | no ip arp gratuitous request }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
gratuitous	gratuitous
request	Enable/Disable sending grat. arp request when duplicate address detected

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan

ip arp gratuitous update

{ ip arp gratuitous update | no ip arp gratuitous update }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
gratuitous	gratuitous
update	Enable/Disable arp cache updates for gratuitous arp

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan-common

ip arp inspection filter vlan

[no] ip arp inspection filter <arp-acl-name> vlan <vlan-range>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
inspection	Arp Inspection configuration
filter	Filter
<i>arp-acl-name</i>	Access list name
vlan	Vlan range
<i>vlan-range</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

Command Mode

- /exec/configure

ip arp inspection log-buffer entries

[no] ip arp inspection log-buffer { entries <number1> }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
inspection	Arp Inspection configuration
log-buffer	Log Buffer Configuration
entries	Number of entries for log buffer
<i>number1</i>	Number of entries for log buffer

Command Mode

- /exec/configure

ip arp inspection trust

[no] ip arp inspection trust

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
inspection	Arp Inspection configuration
trust	Configure trust state

Command Mode

- /exec/configure/if-switching

ip arp inspection validate

[no] ip arp inspection validate { src-mac | dst-mac | ip1 } +

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
inspection	Arp Inspection configuration
validate	Validate addresses
src-mac	Validate source MAC address
dst-mac	Validate destination MAC address
ip1	Validate IP addresses

Command Mode

- /exec/configure

ip arp inspection vlan

```
[no] ip arp inspection vlan <vlan-id> [ logging { dhcp-bindings { permit | all | inone } } ]
```

Syntax Description

<i>logging</i>	(Optional) dhcp-bindings
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
inspection	Arp Inspection configuration
vlan	Enable/Disable ARP Inspection on vlans
<i>vlan-id</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
dhcp-bindings	(Optional) Logging of packet that match DHCP bindings
permit	(Optional) Log DHCP Binding Permitted packets
all	(Optional) Log all packets that match DHCP bindings
inone	(Optional) Do not log packets

Command Mode

- /exec/configure

ip arp mts-queue

{ ip arp mts-queue <size> } | { no ip arp mts-queue }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	ARP
mts-queue	mts-queue
<i>size</i>	Size for arp data sap qlimit

Command Mode

- /exec/configure

ip arp off-list timeout

{ ip arp off-list timeout <time> } | { no ip arp off-list timeout }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
off-list	off-list
timeout	Expire time
<i>time</i>	Expire time value in seconds

Command Mode

- /exec/configure

ip arp rarp fabric-forwarding

[no] ip arp rarp fabric-forwarding

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
rarp	Enable/Disable forwarding of RARP messages on fabric
fabric-forwarding	Forward RARP requests to the fabric

Command Mode

- /exec/configure

ip arp rarp fabric-forwarding rate-limit

[no] ip arp rarp fabric-forwarding rate-limit <rate>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
rarp	Enable/Disable forwarding of RARP messages on fabric
fabric-forwarding	Forward RARP requests to the fabric
rate-limit	Forwarding rate of the RARP frames
<i>rate</i>	RARP frames-per-second

Command Mode

- /exec/configure

ip arp request

ip arp request <ip-address>

Syntax Description

ip	Configure IP features
arp	Configure ARP parameters
request	Trigger ARP request
<i>ip-address</i>	IP address

Command Mode

- /exec/configure/if-igp

ip arp suppression-cache

```
ip arp suppression-cache { [ clear { local | remote } vlan <vlan-id> [ <ip-address> ] ] | [ download remote
vlan <vlan-id> [ <ip-address> ] ] }
```

Syntax Description

clear	(Optional) Clear ARP suppression cache entries
ip	Clear IP commands
download	(Optional) download local entries from ARP cache, remote from l2rib
arp	Clear ARP table and statistics
suppression-cache	ARP-suppression cache
local	(Optional) Local entries
remote	(Optional) Remote entries
vlan	(Optional) Vlan id
<i>vlan-id</i>	(Optional) Vlan
<i>ip-address</i>	(Optional) IP address

Command Mode

- /exec

ip arp suppression testnum

```
ip arp suppression testnum <testnum> [ { <ip-address> <mac-address> <vlan_id> <interface> <phy-interface>
} <count> ]
```

Syntax Description

ip	Configure IP features
arp	Configure ARP parameters
suppression	ARP-suppression based event
testnum	test case number
<i>testnum</i>	id of test (1-100)
<i>ip-address</i>	(Optional) IP address
<i>mac-address</i>	(Optional) MAC address
<i>vlan_id</i>	(Optional) Vlan
<i>interface</i>	(Optional) ARP interface
<i>phy-interface</i>	(Optional) ARP interface
<i>count</i>	(Optional) no of adjacencies needed

Command Mode

- /exec/configure

ip arp suppression timeout

{ ip arp suppression timeout <time-out> } | { no ip arp suppression timeout }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
suppression	ARP-suppression based event
timeout	ARP timeout
<i>time-out</i>	Time-out value in seconds. Time-out = 0 indicates disabled

Command Mode

- /exec/configure

ip arp synchronize

[no] ip arp synchronize

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	ARP
synchronize	CFS synchronize

Command Mode

- /exec/configure/vpc-domain

ip arp synchronize pull

ip arp synchronize pull

Syntax Description

ip	Configure IP features
arp	ARP
synchronize	CFS synchronize
pull	Initiate CFS pull request

Command Mode

- /exec

ip arp synchronize push

ip arp synchronize push

Syntax Description

ip	Configure IP features
arp	ARP
synchronize	CFS synchronize
push	Initiate CFS push message

Command Mode

- /exec

ip arp test

```
{ ip arp test <ip-address> <mac-address> <mode> | no ip arp test <ip-address> [ <mac-address> ] <mode> }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
test	test command
<i>ip-address</i>	IP address
<i>mac-address</i>	MAC address
<i>mode</i>	Mode: 1 - Data plane, 2 - Control plane, 3 - Peer Sync

Command Mode

- /exec/configure/if-vlan-common

ip arp timeout

{ ip arp timeout <time-out> } | { no ip arp timeout }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
timeout	ARP timeout
<i>time-out</i>	Time-out value in seconds

Command Mode

- /exec/configure

ip arp timeout

```
{ ip arp timeout <time-out> } | { no ip arp timeout }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
timeout	ARP timeout
<i>time-out</i>	Time-out value in seconds

Command Mode

- /exec/configure/config-mgmt /exec/configure/if-igp

ip arp unnum-svi-dup-ip-detection

[no] ip arp unnum-svi-dup-ip-detection

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
unnum-svi-dup-ip-detection	Enable duplicate IP detection across VLANs for IP unnumbered SVIs.

Command Mode

- /exec/configure/if-vlan-common

ip arp unnum-svi-sw-replication

[no] ip arp unnum-svi-sw-replication

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
arp	Configure ARP parameters
unnum-svi-sw-replication	ARP packets replication in software for unnumbered SVI

Command Mode

- /exec/configure

ip as-path access-list deny

```
{ ip as-path access-list <aspl-name> [ timeout <sec> ] { { deny | permit } <line> } } | { no ip as-path access-list <aspl-name> [ timeout <sec> ] [ { deny | permit } <line> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
as-path	BGP autonomous system path filter
access-list	Specify an access list name
<i>aspl-name</i>	AS path access list name
<i>aspl-name</i>	Known as-path access-list name
timeout	(Optional) Timeout to be used for checking regex cpu hog
<i>sec</i>	(Optional) No. of seconds used as timeout
deny	Specify packets to reject
permit	Specify packets to forward
<i>line</i>	A

Command Mode

- /exec/configure

ip as-path access-list deny

```
{ ip as-path access-list <aspl-name> [ timeout <sec> ] [ { deny | permit } <line> } } | { no ip as-path access-list <aspl-name> [ timeout <sec> ] [ { deny | permit } <line> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
as-path	BGP autonomous system path filter
access-list	Specify an access list name
<i>aspl-name</i>	AS path access list name
<i>aspl-name</i>	Known as-path access-list name
timeout	(Optional) Timeout to be used for checking regex cpu hog
<i>sec</i>	(Optional) No. of seconds used as timeout
deny	Specify packets to reject
permit	Specify packets to forward
<i>line</i>	A

Command Mode

- /exec/configure

ip as-path access-list seq deny

```
{ ip as-path access-list <aspl-name> seq <seq> [ timeout <sec> ] { { deny | permit } <line> } } | { no ip as-path access-list <aspl-name> seq <seq> [ timeout <sec> ] [ { deny | permit } <line> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
as-path	BGP autonomous system path filter
access-list	Specify an access list name
<i>aspl-name</i>	AS path access list name
<i>aspl-name</i>	Known as-path access-list name
seq	Sequence number of an entry
<i>seq</i>	Sequence number
timeout	(Optional) Timeout to be used for checking regex cpu hog
<i>sec</i>	(Optional) No. of seconds used as timeout
deny	Specify packets to reject
permit	Specify packets to forward
<i>line</i>	A

Command Mode

- /exec/configure

ip authentication

```
[no] { ip | ipv6 } authentication { { key-chain eigrp <eigrp-ptag> <chain> } | { mode eigrp <eigrp-ptag> md5 } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
authentication	Configures EIGRP authentication subcommands
key-chain	key-chain
<i>eigrp-ptag</i>	Process tag
<i>chain</i>	name of key-chain
mode	mode
eigrp	EIGRP interface configuration commands
md5	Keyed message digest
<i>eigrp-ptag</i>	

Command Mode

- /exec/configure/if-igp

ip auto-discard

[no] ip auto-discard

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
auto-discard	Auto 0.0.0.0/0 discard route

Command Mode

- /exec/configure /exec/configure/vrf

ip bandwidth-percent eigrp

```
{ { { ip | ipv6 } bandwidth-percent eigrp <eigrp-ptag> <percent> } | { no { ip | ipv6 } bandwidth-percent eigrp <eigrp-ptag> [ <percent> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
bandwidth-percent	Configures IP-EIGRP bandwidth limit
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>percent</i>	Maximum bandwidth percentage that EIGRP may use
<i>eigrp-ptag</i>	

Command Mode

- /exec/configure/if-igp

ip bandwidth eigrp

```
{ { { ip | ipv6 } bandwidth eigrp <eigrp-ptag> <bw> } | { no { ip | ipv6 } bandwidth eigrp <eigrp-ptag> [ <bw> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
bandwidth	Set bandwidth for interface used in EIGRP metric calculation
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>bw</i>	Bandwidth in kilobits
<i>eigrp-ptag</i>	

Command Mode

- /exec/configure/if-igp

ip cache disable

[no] ip cache disable

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
cache	Disable cache
disable	Disable cache

Command Mode

- /exec/configure

ip community-list expanded deny

```
{ ip community-list expanded <name> [ timeout <sec> ] { deny | permit } <line> } | { no ip community-list
expanded <name> [ timeout <sec> ] [ { deny | permit } <line> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
community-list	Add a community list entry
expanded	Add an expanded community list entry
<i>name</i>	Name of expanded community list
timeout	(Optional) Timeout to be used for checking regex cpu hog
<i>sec</i>	(Optional) No. of seconds used as timeout
deny	Specify community to reject
permit	Specify community to accept
<i>line</i>	Regular-expression(must

Command Mode

- /exec/configure

ip community-list expanded deny

```
{ ip community-list expanded <name> [ timeout <sec> ] { deny | permit } <line> } | { no ip community-list
expanded <name> [ timeout <sec> ] [ { deny | permit } <line> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
community-list	Add a community list entry
expanded	Add an expanded community list entry
<i>name</i>	Name of expanded community list
timeout	(Optional) Timeout to be used for checking regex cpu hog
<i>sec</i>	(Optional) No. of seconds used as timeout
deny	Specify community to reject
permit	Specify community to accept
<i>line</i>	Regular-expression(must

Command Mode

- /exec/configure

ip community-list expanded seq deny

```
{ ip community-list expanded <name> seq <seq> [ timeout <sec> ] { deny | permit } <line> } | { no ip
community-list expanded <name> seq <seq> [ timeout <sec> ] [ { deny | permit } <line> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
community-list	Add a community list entry
expanded	Add an expanded community list entry
<i>name</i>	Name of expanded community list
seq	Sequence number of an entry
<i>seq</i>	Sequence number
timeout	(Optional) Timeout to be used for checking regex cpu hog
<i>sec</i>	(Optional) No. of seconds used as timeout
deny	Specify community to reject
permit	Specify community to accept
<i>line</i>	Regular-expression(must

Command Mode

- /exec/configure

ip community-list standard permit internet local-AS

```
{ ip community-list standard <name> { permit | deny } { internet | local-AS | no-advertise | no-export | <aann>
| <number> | <hex_num> } + } | { no ip community-list standard <name> [ permit | deny ] [ { internet | local-AS
| no-advertise | no-export | <aann> | <number> | <hex_num> } + ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
community-list	Add a community list entry
standard	Add a standard Community list entry
<i>name</i>	Standard community list name
permit	Specify community to accept
deny	Specify community to reject
internet	Internet (well-known community)
local-AS	Do not send outside local AS (well-known community)
no-advertise	Do not advertise to any peer (well-known community)
no-export	Do not export to next AS (well-known community)
<i>aann</i>	Community number aa:nn format
<i>number</i>	Community number
<i>hex_num</i>	Community number in hex
<i>internet</i>	(Optional) local-AS

Command Mode

- /exec/configure

ip community-list standard permit internet local-AS

```
{ ip community-list standard <name> { permit | deny } { internet | local-AS | no-advertise | no-export | <aann>
| <number> | <hex_num> } + } | { no ip community-list standard <name> [ permit | deny ] [ { internet | local-AS
| no-advertise | no-export | <aann> | <number> | <hex_num> } + ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
community-list	Add a community list entry
standard	Add a standard Community list entry
<i>name</i>	Standard community list name
permit	Specify community to accept
deny	Specify community to reject
internet	Internet (well-known community)
local-AS	Do not send outside local AS (well-known community)
no-advertise	Do not advertise to any peer (well-known community)
no-export	Do not export to next AS (well-known community)
<i>aann</i>	Community number aa:nn format
<i>number</i>	Community number
<i>hex_num</i>	Community number in hex
<i>internet</i>	(Optional) local-AS

Command Mode

- /exec/configure

ip community-list standard seq permit internet local-AS

```
{ ip community-list standard <name> seq <seq> { permit | deny } { internet | local-AS | no-advertise | no-export
| <aann> | <number> | <hex_num> } + } | { no ip community-list standard <name> seq <seq> [ permit | deny
] [ { internet | local-AS | no-advertise | no-export | <aann> | <number> | <hex_num> } + ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
community-list	Add a community list entry
standard	Add a standard Community list entry
<i>name</i>	Standard community list name
seq	Sequence number of an entry
<i>seq</i>	Sequence number
permit	Specify community to accept
deny	Specify community to reject
internet	Internet (well-known community)
local-AS	Do not send outside local AS (well-known community)
no-advertise	Do not advertise to any peer (well-known community)
no-export	Do not export to next AS (well-known community)
<i>aann</i>	Community number aa:nn format
<i>number</i>	Community number
<i>hex_num</i>	Community number in hex
<i>internet</i>	(Optional) local-AS

Command Mode

- /exec/configure

ip default-gateway

[no] ip default-gateway <ip-addr> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
default-gateway	Configure default gateway
<i>ip-addr</i>	IP prefix in format i.i.i.i
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/configure /exec/configure/config-mgmt /exec/configure/vrf /exec/configure/if-gre-tunnel

ip delay eigrp

```
{ { { ip | ipv6 } delay eigrp <eigrp-ptag> <delay> [ picoseconds ] } | { no { ip | ipv6 } delay eigrp <eigrp-ptag>
[ <delay> ] [ picoseconds ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
delay	Set delay for interface used in EIGRP metric calculation
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>delay</i>	Throughput delay
picoseconds	(Optional) Delay units in picoseconds
<i>eigrp-ptag</i>	

Command Mode

- /exec/configure/if-igp

ip destination

{ ip { destination | source } <addr> } | { no ip { destination | source } }

Syntax Description

no	Negate a command or set its defaults
ip	specify flow ipv4 address
source	specify flow source ipv4 address
destination	specify flow destination ip address
<i>addr</i>	ipv4 address

Command Mode

- /exec/configure/configngoamprofileflow

ip dhcp option82 suboption circuit-id

[no] ip dhcp option82 suboption circuit-id [<format-string>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
option82	DHCP option82
suboption	DHCP option82 suboption information
circuit-id	DHCP option82 suboption circuit-id string configuration
<i>format-string</i>	(Optional) Format string

Command Mode

- /exec/configure/if-eth-phy /exec/configure/if-eth-port-channel

ip dhcp packet strict-validation

[no] ip dhcp packet strict-validation

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
packet	DHCP packet
strict-validation	DHCP packet strict validation

Command Mode

- /exec/configure/

ip dhcp relay

[no] ip dhcp relay

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	Enable DHCP relay agent

Command Mode

- /exec/configure

ip dhcp relay address

[no] ip dhcp relay address [<ip-addr-val> [use-vrf <vrf-name>]]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	Configure relay agent
address	Configure DHCP server to refer to
<i>ip-addr-val</i>	(Optional) IP address
use-vrf	(Optional) helper address VRF membership
<i>vrf-name</i>	(Optional) VRF name

Command Mode

- /exec/configure/if-igmp /exec/configure/ppm-ethernet-switch /exec/configure/ppm-port-channel-switch

ip dhcp relay information option

[no] ip dhcp relay information option

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	DHCP relay agent parameters
information	Relay agent information option
option	Insert relay information in BOOTREQUEST

Command Mode

- /exec/configure

ip dhcp relay information option trust

[no] ip dhcp relay information option trust

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	DHCP relay agent parameters
information	Relay agent information option
option	Relay agent option
trust	Enable relay trust functionality on the system

Command Mode

- /exec/configure

ip dhcp relay information option vpn

[no] ip dhcp relay information option vpn

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	DHCP relay agent parameters
information	Relay agent information option
option	Insert relay information in BOOTREQUEST
vpn	Enable relay support across VRFs

Command Mode

- /exec/configure

ip dhcp relay information trust-all

[no] ip dhcp relay information trust-all

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	DHCP relay agent parameters
information	Relay agent information option
trust-all	Enable relay trust on all the interfaces

Command Mode

- /exec/configure

ip dhcp relay information trusted

[no] ip dhcp relay information trusted

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	DHCP relay agent parameters
information	Relay agent information option
trusted	Enable relay trust on this interface

Command Mode

- /exec/configure/if-igp

ip dhcp relay source-address hsrp

[no] ip dhcp relay source-address hsrp

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	Configure DHCPv4 relay agent
source-address	Configure source address for DHCPv4 relay
hsrp	Use VIP address instead of SVI address

Command Mode

- `/exec/configure /exec/configure/if-igp`

ip dhcp relay source-interface

ip dhcp relay source-interface <interface-name>

Syntax Description

ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	Configure relay agent
source-interface	Configure source interface for DHCP relay
<i>interface-name</i>	Source interface

Command Mode

- /exec/configure /exec/configure/if-igp

ip dhcp relay source-interface

[no] ip dhcp relay source-interface

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	Configure relay agent
source-interface	Configure source interface for DHCP relay

Command Mode

- /exec/configure /exec/configure/if-igp

ip dhcp relay sub-option circuit-id customized

[no] ip dhcp relay sub-option circuit-id customized

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	DHCP relay agent parameters
sub-option	Relay agent information option sub-option
circuit-id	sub-option of option82
customized	circuit id customized to include vlan id, slot and port info

Command Mode

- /exec/configure

ip dhcp relay sub-option circuit-id format-type string

[no] ip dhcp relay sub-option circuit-id format-type string [format <format-string>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	DHCP relay agent parameters
sub-option	Relay agent suboption
circuit-id	Relay agent circuit-id suboption
format-type	Specify suboption format type
string	Use string format for suboption
format	(Optional) Specify format string
<i>format-string</i>	(Optional) Format string

Command Mode

- /exec/configure

ip dhcp relay sub-option type cisco

[no] ip dhcp relay sub-option type cisco

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	DHCP relay agent parameters
sub-option	Relay agent suboption
type	Relay agent suboption type
cisco	Use Cisco proprietary suboptions

Command Mode

- /exec/configure

ip dhcp relay subnet-broadcast

[no] ip dhcp relay subnet-broadcast

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
relay	Configure DHCP relay
subnet-broadcast	Configure DHCP relay subnet-broadcast on interface

Command Mode

- /exec/configure/if-igp

ip dhcp smart-relay

[no] ip dhcp smart-relay

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
smart-relay	Configure DHCP smart relay on interface

Command Mode

- /exec/configure/if-igp

ip dhcp smart-relay global

[no] ip dhcp smart-relay global

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
smart-relay	Configure DHCP smart relay
global	Configure DHCP smart relay globally

Command Mode

- /exec/configure

ip dhcp snooping

[no] ip dhcp snooping

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
snooping	DHCP Snooping

Command Mode

- /exec/configure/

ip dhcp snooping information option

[no] ip dhcp snooping information option

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
snooping	DHCP Snooping
information	DHCP Snooping information
option	DHCP Snooping information option

Command Mode

- /exec/configure/

ip dhcp snooping ipsg-excluded vlan

[no] ip dhcp snooping ipsg-excluded vlan <vlan-id10>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
snooping	DHCP Snooping
ipsg-excluded	exclude ipsg
vlan	DHCP Snooping ipsg excluded vlan
<i>vlan-id10</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

Command Mode

- /exec/configure

ip dhcp snooping sub-option circuit-id format-type string

[no] ip dhcp snooping sub-option circuit-id format-type string [format <format-string>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
snooping	DHCP snooping parameters
sub-option	suboption
circuit-id	circuit-id suboption
format-type	Specify suboption format type
string	Use string format for suboption
format	(Optional) Specify format string
<i>format-string</i>	(Optional) Format string

Command Mode

- /exec/configure

ip dhcp snooping trust

[no] ip dhcp snooping trust

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
snooping	DHCP Snooping
trust	DHCP Snooping trust config

Command Mode

- /exec/configure/if-switching

ip dhcp snooping verify mac-address

[no] ip dhcp snooping verify mac-address

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
snooping	DHCP Snooping
verify	DHCP snooping verify
mac-address	DHCP snooping verify mac-address

Command Mode

- /exec/configure/

ip dhcp snooping vlan

[no] ip dhcp snooping vlan <vlan-id10>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dhcp	Configure DHCP snooping or relay
snooping	DHCP Snooping
vlan	DHCP Snooping vlan
<i>vlan-id10</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19

Command Mode

- /exec/configure

ip directed-broadcast

[no] ip directed-broadcast [<acl-name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
directed-broadcast	IP directed-broadcast
<i>acl-name</i>	(Optional) ACL policy name

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config

ip distribute-list eigrp

```
[no] { ip | ipv6 } distribute-list eigrp <eigrp-ptag> { { route-map <map> } | { prefix-list <list> } } { in | out }
}
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
distribute-list	Filter networks in routing updates
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
route-map	Use a route-map for route filtering
<i>map</i>	Route-map name
prefix-list	Use a prefix-list for route filtering
<i>list</i>	Reference to prefix-list name
in	Filter incoming routing updates
out	Filter outgoing routing updates

Command Mode

- /exec/configure/if-igp

ip dns source-interface

[no] ip dns source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
dns	Configure dns client
source-interface	Configure source interface feature for domain-lookup
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec/configure

ip domain-list

```
[no] ip domain-list { <s0> | <s1> [ use-vrf { <vrf-name> | <vrf-known-name> } ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
domain-list	Add additional domain names
<i>s0</i>	Enter a domain
<i>s1</i>	Enter a domain
use-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/configure /exec/configure/vrf

ip domain-lookup

[no] ip domain-lookup

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
domain-lookup	Enable/Disable DNS

Command Mode

- /exec/configure

ip domain-name

```
[no] ip domain-name { <s0> | <s1> [ use-vrf { <vrf-name> | <vrf-known-name> } ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
domain-name	Specify default domain name
<i>s0</i>	Enter the default domain
<i>s1</i>	Enter the default domain
use-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/configure /exec/configure/vrf

ip drop-glean

[no] ip drop-glean

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
drop-glean	Installs the secondary subnet routes as Drop routes

Command Mode

- /exec/configure/if-vlan-common

ip dscp-lop

[no] ip dscp-lop | ip dscp-lop { <dscp-val> | <dscp-enum> }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
dscp-lop	Set DSCP to be used for locally originated packets for IPv4 and IPv6. Cos will not be set.
<i>dscp-val</i>	Specify DSCP value for Locally Originated packets for IPv4 and IPv6
<i>dscp-enum</i>	

Command Mode

- /exec/configure

ip eigrp bfd

[no] ip eigrp <eigrp-tag> bfd [disable]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
eigrp	EIGRP interface configuration commands
<i>eigrp-tag</i>	Process tag
bfd	Enable BFD on this interface
disable	(Optional) Disable BFD on this interface

Command Mode

- /exec/configure/if-igp

ip eigrp event-history bfd size

[no] { ip | ipv6 } eigrp [<eigrp-ptag>] event-history bfd size { <size_in_text> | <size_in_Kbytes> }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
<i>eigrp-ptag</i>	(Optional) Process tag
event-history	Event History of EIGRP
bfd	Show bfd log of EIGRP
size	Configure the size of the event-hist buffer
<i>size_in_text</i>	Buffer size
<i>size_in_Kbytes</i>	Size of the file in kbytes

Command Mode

- /exec/configure

ip eigrp event-history errors

[no] { ip | ipv6 } eigrp [<eigrp-ptag>] event-history { errors | msgs }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
<i>eigrp-ptag</i>	(Optional) Process tag
event-history	Event History of EIGRP
errors	Show error log of EIGRP
msgs	Show message log of EIGRP

Command Mode

- /exec/configure

ip eigrp event-history size

```
[no] { ip | ipv6 } eigrp [ <eigrp-ptag> ] event-history { fsm | packet | rib } size { <size_in_text> | <size_in_Kbytes> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Clear IP commands
ipv6	Clear IPv6 commands
eigrp	EIGRP clear commands
<i>eigrp-ptag</i>	(Optional) Process tag
event-history	Event History of EIGRP
fsm	FSM log of EIGRP
packet	Packet log of EIGRP
rib	RIB log of EIGRP
size	Configure the size of the event-hist buffer
<i>size_in_text</i>	Buffer size
<i>size_in_Kbytes</i>	Size of the file in kbytes

Command Mode

- /exec/configure

ip eigrp internal syslog rate-limit

[no] { ip | ipv6 } eigrp [<eigrp-ptag>] internal syslog rate-limit

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	IP events
ipv6	IPv6 events
eigrp	Display EIGRP status and configuration
<i>eigrp-ptag</i>	(Optional) Process tag
internal	Commands for internal use
syslog	control syslog message
rate-limit	rate-limiting

Command Mode

- /exec

ip eigrp shutdown

[no] { ip | ipv6 } eigrp <eigrp-ptag> shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
shutdown	Shutdown EIGRP on this interface

Command Mode

- /exec/configure/if-igp

ip extcommunity-list expanded deny

```
{ ip extcommunity-list expanded <name> { deny | permit } <line> } | { no ip extcommunity-list expanded <name> [ { deny | permit } <line> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
extcommunity-list	Add a extcommunity list entry
expanded	Add an expanded extcommunity list entry
<i>name</i>	Name of expanded extcommunity list
deny	Specify extcommunity to reject
permit	Specify extcommunity to accept
<i>line</i>	Regular-expression(must

Command Mode

- /exec/configure

ip extcommunity-list standard permit

```
{ ip extcommunity-list standard <name> { permit | deny } { { 4byteas-generic { transitive
<ext-comm-gen-trans> | non-transitive <ext-comm-gen-nontrans> } } | { rt { <ext-comm-rt-aa2nn4> |
<ext-comm-rt-aa4nn2> } } | { soo { <ext-comm-soo-aa2nn4> | <ext-comm-soo-aa4nn2> } } } + | { no ip
extcommunity-list standard <name> [ permit | deny ] [ { 4byteas-generic { transitive <ext-comm-gen-trans>
| non-transitive <ext-comm-gen-nontrans> } } | { rt { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } } |
{ soo { <ext-comm-soo-aa2nn4> | <ext-comm-soo-aa4nn2> } } ] + } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
extcommunity-list	Add a extcommunity list entry
standard	Add a standard Extcommunity list entry
<i>name</i>	Standard extcommunity list name
permit	Specify extcommunity to accept
deny	Specify extcommunity to reject
4byteas-generic	Generic extended community
transitive	Transitive extcommunity
non-transitive	Non-Transitive extcommunity
rt	Router-Target
soo	Site-Of-Origin
<i>ext-comm-gen-trans</i>	Extcommunity number aa4:nn format
<i>ext-comm-gen-nontrans</i>	Extcommunity number aa4:nn format
<i>ext-comm-rt-aa2nn4</i>	Extcommunity number
<i>ext-comm-rt-aa4nn2</i>	Extcommunity number
<i>ext-comm-soo-aa2nn4</i>	Extcommunity number
<i>ext-comm-soo-aa4nn2</i>	Extcommunity number

Command Mode

- /exec/configure

ip fabric multicast file-debug

[no] ip fabric multicast file-debug

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
fabric	Config fabric
multicast	Configure multicast
file-debug	Collect all debugs to a file

Command Mode

- /exec/configure

ip fabric multicast print-avl-tree

[no] ip fabric multicast print-avl-tree

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
fabric	Fabric
multicast	Multicast information
print-avl-tree	Print out the AVL tree

Command Mode

- /exec/configure

ip flow monitor input

[no] ip flow monitor <monitorname> { input }

Syntax Description

ip	Configure IP features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic

Command Mode

- /exec/configure

ip flow monitor input

[no] ip flow monitor <monitorname> input

Syntax Description

ip	Configure IP features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic

Command Mode

- /exec/configure/if-routing /exec/configure/if-mgmt-ether /exec/configure/if-any-tunnel /exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p

ip flow monitor input

[no] ip flow monitor <monitorname> input

Syntax Description

ip	Configure IP features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic

Command Mode

- /exec/configure/vlan-config

ip flow monitor input

[no] ip flow monitor <monitorname> input

Syntax Description

ip	Configure IP features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic

Command Mode

- /exec/configure/if-vlan-common

ip forward

ip forward | no ip forward

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
forward	Enable ip forwarding on interface

Command Mode

- /exec/configure/if-vlan /exec/configure/if-vlan-range /exec/configure/if-igp

ip ftp source-interface

[no] ip ftp source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ftp	Configure FTP client
source-interface	Configure source interface feature for FTP client
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec/configure

ip hello-interval eigrp

```
{ { { ip | ipv6 } hello-interval eigrp <eigrp-ptag> <hello-interval> } | { no { ip | ipv6 } hello-interval eigrp <eigrp-ptag> [ <hello-interval> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
hello-interval	Configures IP-EIGRP hello interval
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>hello-interval</i>	Seconds between hello transmissions
<i>eigrp-ptag</i>	

Command Mode

- /exec/configure/if-igp

ip hold-time eigrp

```
{ { { ip | ipv6 } hold-time eigrp <eigrp-ptag> <holdtime> } | { no { ip | ipv6 } hold-time eigrp <eigrp-ptag> [ <holdtime> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
hold-time	Configures IP-EIGRP hold time
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>holdtime</i>	Seconds before neighbor is considered down
<i>eigrp-ptag</i>	

Command Mode

- /exec/configure/if-igp

ip host

[no] ip host <s0> <ipv4_0>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
host	Add an entry to the ip hostname table
s0	Name of Host
ipv4_0	Enter an IP address

Command Mode

- /exec/configure

ip host host

```
{ [ <seqnum> ] <permitdeny> { ip { <src_addr> <src_wild> | <src_prefix> | <src_any> | host <src_hostaddr>
} { <dst_addr> <dst_wild> | <dst_prefix> | <dst_any> | host <dst_hostaddr> } } } | { no <seqnum> }
```

Syntax Description

no	Negate a command or set its defaults
<i>seqnum</i>	(Optional) Sequence number
ip	ip
<i>permitdeny</i>	permitdeny
<i>src_addr</i>	Source network address
<i>src_wild</i>	Source wildcard bits
<i>src_prefix</i>	A.B.C.D/nn Source network prefix
<i>src_any</i>	Any source address
host	A.B.C.D - A single source host
<i>src_hostaddr</i>	A.B.C.D - A single source host
<i>dst_addr</i>	Destination network address
<i>dst_wild</i>	Destination wildcard bits
<i>dst_prefix</i>	A.B.C.D/nn Destination network prefix
<i>dst_any</i>	Any destination address
host	A.B.C.D - A single destination host
<i>dst_hostaddr</i>	A.B.C.D - A single destination host

Command Mode

- /exec/configure/catena-port-acl

ip http source-interface

[no] ip http source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
http	Configure HTTP client
source-interface	Configure source interface feature for FTP client
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec/configure

ip icmp-errors source-interface

ip icmp-errors source-interface <interface> [<icmp_type>] | no ip icmp-errors source-interface [<interface> <icmp_type>]

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
icmp-errors	ICMP unreachable/TTL-exceeded/param-prob messages
source-interface	Configure source-address for applications
<i>interface</i>	Interface to pick source-address from
<i>icmp_type</i>	(Optional) ICMPv6 types

Command Mode

- /exec/configure /exec/configure/vrf

ip igmp allow-v3-asm

[no] ip igmp allow-v3-asm

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
allow-v3-asm	Accept IGMPv3 reports for non SSM groups

Command Mode

- /exec/configure/if-igp

ip igmp any-query-destination

[no] ip igmp any-query-destination

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
any-query-destination	Allow any destination-IP for General Queries

Command Mode

- /exec/configure

ip igmp bootup-delay

```
{ { no ip igmp bootup-delay [ <delay> ] } | { ip igmp bootup-delay <delay> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
bootup-delay	Configures bootup route add delay to RIB
<i>delay</i>	(Optional) Delay downloading in seconds

Command Mode

- /exec/configure

ip igmp enforce-router-alert

[no] ip igmp enforce-router-alert

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
enforce-router-alert	Enforce Router Alert option check for IGMPv2 and IGMPv3 packets

Command Mode

- /exec/configure

ip igmp event-history cli

[no] ip igmp event-history cli { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
event-history	Configure event-history buffers
cli	CLI events for IGMP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip igmp event-history ha

[no] ip igmp event-history ha { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
event-history	Configure event-history buffers
ha	HA events for IGMP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip igmp event-history igmp-internal

[no] ip igmp event-history igmp-internal { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
event-history	Configure event-history buffers
igmp-internal	Internal events for IGMP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip igmp event-history interface

```
[no] ip igmp event-history { interface-events | group-events } { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
event-history	Configure event-history buffers
interface-events	Interface-events for IGMP
group-events	Group-events for IGMP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip igmp event-history interface

```
[no] ip igmp event-history { interface-debug | group-debug } { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
event-history	Configure event-history buffers
interface-debug	Interface-debug for IGMP
group-debug	Group-debug for IGMP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip igmp event-history mtrace

```
[no] ip igmp event-history mtrace { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
event-history	Configure event-history buffers
mtrace	Mtrace events for IGMP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip igmp event-history mvr

```
[no] ip igmp event-history mvr { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
event-history	Configure event-history buffers
mvr	MVR events for IGMP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip igmp event-history policy

```
[no] ip igmp event-history policy { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
event-history	Configure event-history buffers
policy	Policy events for IGMP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip igmp event-history vrf

```
[no] ip igmp event-history vrf { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
event-history	Configure event-history buffers
vrf	VRF events for IGMP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip igmp file-debug

[no] ip igmp file-debug

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
file-debug	Collect all debugs to a file

Command Mode

- /exec/configure

ip igmp flush-routes

[no] ip igmp flush-routes

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
flush-routes	Remove routes when restarting IGMP

Command Mode

- /exec/configure

ip igmp group-timeout

```
{ { no ip igmp group-timeout [ <time> ] } | { ip igmp group-timeout <time> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
group-timeout	Configures group membership timeout for IGMPv2
<i>time</i>	(Optional) Time in seconds

Command Mode

- /exec/configure/if-igp

ip igmp ha-stateful

[no] ip igmp ha-stateful

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
ha-stateful	Enable stateful IGMP HA

Command Mode

- /exec/configure

ip igmp host-proxy

```
[no] ip igmp host-proxy [ unsolicited [ <time> ] | route-map <route-map-name> [ unsolicited [ <time> ] ] |
prefix-list <prefix-list-name> [ unsolicited [ <time> ] ] ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
host-proxy	Configures igmp host proxy for this interface
route-map	(Optional) host proxy route-map policy
prefix-list	(Optional) host proxy prefix-list policy
unsolicited	(Optional) unsolicited joins
<i>time</i>	(Optional) Time in seconds.
<i>route-map-name</i>	(Optional) Route-map name
<i>prefix-list-name</i>	(Optional) Name of prefix-list

Command Mode

- /exec/configure/if-igp

ip igmp immediate-leave

[no] ip igmp immediate-leave

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
immediate-leave	Enable/Disable immediate leave

Command Mode

- /exec/configure/if-igp

ip igmp internal mts-group history

[no] ip igmp internal mts-group { history <size> | entry <msg-id> }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
internal	Internal for IGMP
mts-group	mts-group configuration
history	Configure history size
<i>size</i>	Number of histort entries
entry	Create mts-msg entry
<i>msg-id</i>	mts msg id

Command Mode

- /exec/configure

ip igmp join-group

```
[no] ip igmp join-group { { <group> [ source <source> ] } | { route-map <route-map-name> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
join-group	Configures local group membership for router
<i>group</i>	Multicast group IP address
source	(Optional) Configures source address for IGMPv3 (S,G) Channel
<i>source</i>	(Optional) Source IP address
route-map	Join group policy
<i>route-map-name</i>	Route-map name

Command Mode

- /exec/configure/if-igp

ip igmp last-member-query-count

```
{ { no ip igmp last-member-query-count [ <count> ] } | { ip igmp last-member-query-count <count> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
last-member-query-count	Configures number of group-specific Queries sent
<i>count</i>	(Optional) Count value

Command Mode

- /exec/configure/if-igmp

ip igmp last-member-query-response-time

```
{ { no ip igmp last-member-query-response-time [ <interval> ] } | { ip igmp last-member-query-response-time <interval> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
last-member-query-response-time	Configures last member query response time
<i>interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure/if-igp

ip igmp querier

```
{ { no ip igmp { querier-timeout | query-timeout } [ <time> ] } | { ip igmp { querier-timeout | query-timeout } <time> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
querier-timeout	Configures querier timeout for IGMPv2
query-timeout	Configures querier timeout for IGMPv2
<i>time</i>	(Optional) Time in seconds

Command Mode

- /exec/configure/if-igp

ip igmp query-interval

```
{ { no ip igmp query-interval [ <interval> ] } | { ip igmp query-interval <interval> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
query-interval	Configures interval between Query transmission
<i>interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure/if-igp

ip igmp query-max-response-time

```
{ { no ip igmp query-max-response-time [ <time> ] } | { ip igmp query-max-response-time <time> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
query-max-response-time	Configures MRT for query messages
<i>time</i>	(Optional) Time in seconds

Command Mode

- /exec/configure/if-igp

ip igmp report-link-local-groups

[no] ip igmp report-link-local-groups

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
report-link-local-groups	Send Reports for groups in 224.0.0.0/24

Command Mode

- /exec/configure/if-igp

ip igmp report prefix-list

```
{ { ip igmp { report-policy | access-group } { <route-map-name> | prefix-list <prefix-list-name> } } | { no ip igmp { report-policy | access-group } [ <route-map-name> | prefix-list <prefix-list-name> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
report-policy	IGMP Report Policy
access-group	IGMP access-group
<i>route-map-name</i>	Route-map name
prefix-list	Prefix list policy
<i>prefix-list-name</i>	Name of prefix-list

Command Mode

- /exec/configure/if-igp

ip igmp robustness-variable

```
{ { no ip igmp robustness-variable [ <value> ] } | { ip igmp robustness-variable <value> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
robustness-variable	Configures RFC defined Robustness Variable
<i>value</i>	(Optional) Count value

Command Mode

- /exec/configure/if-igp

ip igmp snooping

{ { no ip igmp snooping } | { ip igmp snooping } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping

{ { no ip igmp snooping } | { ip igmp snooping } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping

Command Mode

- /exec/configure/vlan

ip igmp snooping

{ { no ip igmp snooping } | { ip igmp snooping } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping

Command Mode

- /exec/configure

ip igmp snooping

```
[no] ip igmp snooping { holddown-timer <timer> | cc-mode | m2rib-max-omfs <omf-count> |
m2rib-max-omf-routes <omf-route-count> | m2rib-max-routes <route-count> | m2rib-max-buffers <buf-count>
}
```

Syntax Description

ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
no	(Optional) Negate a command or set its defaults
holddown-timer	Initial holddown period after switchover/restart
cc-mode	Enter MFDM congestion-control mode
m2rib-max-omfs	Number of OMF entries in M2RIB buffer
m2rib-max-routes	Number of route entries in M2RIB buffer
m2rib-max-omf-routes	Number of omf route entries in M2RIB buffer
m2rib-max-buffers	Number of update buffers with M2RIB
<i>timer</i>	Delay (in secs)
<i>omf-count</i>	
<i>route-count</i>	
<i>buf-count</i>	
<i>omf-route-count</i>	

Command Mode

- /exec/configure

ip igmp snooping access-group

[no] ip igmp snooping access-group <route-map-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
access-group	Configures filter policy for groups mentioned in route-map
<i>route-map-name</i>	route-map name

Command Mode

- /exec/configure/vlan-config

ip igmp snooping disable-nve-static-router-port

[no] ip igmp snooping disable-nve-static-router-port

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
disable-nve-static-router-port	Disable NVE as a static router port

Command Mode

- /exec/configure

ip igmp snooping disable-nve-static-router-port

[no] ip igmp snooping disable-nve-static-router-port

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
disable-nve-static-router-port	Disable NVE as a static router port

Command Mode

- /exec/configure

ip igmp snooping drop-invalid-reports

[no] ip igmp snooping drop-invalid-reports

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
drop-invalid-reports	drop invalid reports

Command Mode

- /exec/configure

ip igmp snooping event-history igmp-snoop-internal

[no] ip igmp snooping event-history igmp-snoop-internal { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
event-history	Configure event-history buffers
igmp-snoop-internal	Internal events for IGMP-snoop
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip igmp snooping event-history mfdm-sum

```
[no] ip igmp snooping event-history mfdm-sum { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
event-history	Configure event-history buffers
mfdm-sum	MFDM-SUM events for IGMP-snoop
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip igmp snooping event-history mfdm

```
[no] ip igmp snooping event-history mfdm { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
event-history	Configure event-history buffers
mfdm	MFDM events for IGMP-snoop
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip igmp snooping event-history rib

```
[no] ip igmp snooping event-history rib { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
event-history	Configure event-history buffers
rib	RIB events for IGMP-snoop
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip igmp snooping event-history vlan-events

[no] ip igmp snooping event-history vlan-events { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
event-history	Configure event-history buffers
vlan-events	VLAN/BD events for IGMP-snoop
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip igmp snooping event-history vlan

```
[no] ip igmp snooping event-history vlan { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
event-history	Configure event-history buffers
vlan	VLAN/BD events for IGMP-snoop
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip igmp snooping event-history vpc

[no] ip igmp snooping event-history vpc { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
event-history	Configure event-history buffers
vpc	VPC events for IGMP-snoop
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip igmp snooping explicit-tracking

{ { no ip igmp snooping explicit-tracking } | { ip igmp snooping explicit-tracking } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
explicit-tracking	Configures Explicit Host tracking for VLAN/BD

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping explicit-tracking

```
{ { no ip igmp snooping explicit-tracking } | { ip igmp snooping explicit-tracking } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
explicit-tracking	Configures Explicit Host tracking for VLAN/BD

Command Mode

- /exec/configure/vlan

ip igmp snooping fast-leave

{ { no ip igmp snooping fast-leave } | { ip igmp snooping fast-leave } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
fast-leave	Configures Fast leave for the VLAN/BD

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping fast-leave

{ { no ip igmp snooping fast-leave } | { ip igmp snooping fast-leave } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
fast-leave	Configures Fast leave for the VLAN/BD

Command Mode

- /exec/configure/vlan

ip igmp snooping group-timeout

[no] ip igmp snooping group-timeout { <timeout> | never }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
group-timeout	Configures group membership timeout in VLAN/BD
<i>timeout</i>	Timeout in minutes
never	Never expire ports from group membership

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping group-timeout

[no] ip igmp snooping group-timeout { <timeout> | never }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
group-timeout	Configures group membership timeout in all VLAN/BDs
<i>timeout</i>	Timeout in minutes
never	Never expire ports from group membership

Command Mode

- /exec/configure

ip igmp snooping last-member-query-count

```
{ { no ip igmp snooping last-member-query-count [ <count> ] } | { ip igmp snooping last-member-query-count <count> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
last-member-query-count	Configures number of group-specific queries sent
<i>count</i>	(Optional) Count value

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping last-member-query-count

```
{ { no ip igmp snooping last-member-query-count [ <count> ] } | { ip igmp snooping last-member-query-count <count> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
last-member-query-count	Configures number of group-specific queries sent
<i>count</i>	(Optional) Count value

Command Mode

- /exec/configure/vlan

ip igmp snooping last-member-query-interval

```
{ { no ip igmp snooping last-member-query-interval [ <interval> ] } | { ip igmp snooping
last-member-query-interval <interval> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
last-member-query-interval	Configures interval between group-specific Query transmissions
<i>interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping last-member-query-interval

```
{ { no ip igmp snooping last-member-query-interval [ <interval> ] } | { ip igmp snooping
last-member-query-interval <interval> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
last-member-query-interval	Configures interval between group-specific Query transmissions
<i>interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure/vlan

ip igmp snooping limit

[no] ip igmp snooping limit [<max-grps>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
limit	Limits number of groups that could be joined per interface to <max-grps>
<i>max-grps</i>	(Optional) Maximum Groups per interface

Command Mode

- /exec/configure/vlan-config

ip igmp snooping link-local-groups-suppression

[no] ip igmp snooping link-local-groups-suppression

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
link-local-groups-suppression	Configures VLAN/BD link-local groups suppression

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping link-local-groups-suppression

[no] ip igmp snooping link-local-groups-suppression

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
link-local-groups-suppression	Configures VLAN/BD link-local groups suppression

Command Mode

- /exec/configure/vlan

ip igmp snooping link-local-groups-suppression

[no] ip igmp snooping link-local-groups-suppression

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
link-local-groups-suppression	Configures Global link-local groups suppression

Command Mode

- /exec/configure

ip igmp snooping many-to-one-enhance

[no] ip igmp snooping many-to-one-enhance

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
many-to-one-enhance	Enable many to one optimization for n3500 platform

Command Mode

- /exec/configure

ip igmp snooping max-gq-miss

```
{ { no ip igmp snooping max-gq-miss } | { ip igmp snooping max-gq-miss <count> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
max-gq-miss	Configure general query miss count
<i>count</i>	Max number of GQ misses allowed

Command Mode

- /exec/configure

ip igmp snooping minimum-verison

```
{ { no ip igmp snooping minimum-verison [ <min-ver> ] } | { ip igmp snooping minimum-verison <min-ver> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
minimum-verison	Doesn't process IGMP packets of versions below <min-ver>
<i>min-ver</i>	(Optional) Minimum IGMP version

Command Mode

- /exec/configure/vlan-config

ip igmp snooping mrouter interface

```
{ [ no ] ip igmp snooping mrouter interface [ vsi ] <interface> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
mrouter	Configures static multicast router interface
interface	Specify interface for static-mrouter
vsi	(Optional) Specify if this interface is a VSI
<i>interface</i>	Interface name

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping mrouter interface

```
{ { no ip igmp snooping mrouter interface <interface> } | { ip igmp snooping mrouter interface <interface> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
mrouter	Configures static multicast router interface
interface	Specify interface for static-mrouter
<i>interface</i>	Interface name

Command Mode

- /exec/configure/vlan

ip igmp snooping mrouter vpc-peer-link

[no] ip igmp snooping mrouter vpc-peer-link

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
mrouter	Configures static multicast router interface
vpc-peer-link	Specify vpc-peer-link as static mrouter for all VLAN/BDS

Command Mode

- /exec/configure

ip igmp snooping optimise-multicast-flood

[no] ip igmp snooping optimise-multicast-flood

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
optimise-multicast-flood	Configures Optimised Multicast Flood (OMF) on the VLAN/BD

Command Mode

- /exec/configure/vlan

ip igmp snooping optimise-multicast-flood

[no] ip igmp snooping optimise-multicast-flood

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
optimise-multicast-flood	Configures Optimized Multicast Flood (OMF) on all VLAN/BDs

Command Mode

- /exec/configure

ip igmp snooping optimised-multicast-flood

[no] ip igmp snooping optimised-multicast-flood

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
optimised-multicast-flood	Configures Optimised Multicast Flood (OMF) on the VLAN/BD

Command Mode

- /exec/configure/vlan

ip igmp snooping optimised

[no] ip igmp snooping { optimised-multicast-flood | optimise-multicast-flood }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
optimised-multicast-flood	Configures Optimised Multicast Flood (OMF) on the VLAN
optimise-multicast-flood	Configures Optimised Multicast Flood (OMF) on the VLAN

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping proxy-leave use-group-address

```
{ { ip igmp snooping proxy-leave use-group-address } | { no ip igmp snooping proxy-leave use-group-address } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
proxy-leave	Proxy Leave
use-group-address	Use group address for proxy leave

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping proxy general-queries

[no] ip igmp snooping proxy general-queries [mrt <mrt>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
proxy	Configures IGMP snooping proxy
general-queries	Configures proxy for general-queries
mrt	(Optional) Configure max-response-time for the switch's proxy general-queries
<i>mrt</i>	(Optional) MRT in seconds

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping proxy general-queries

[no] ip igmp snooping proxy general-queries [mrt <mrt>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
proxy	Configures IGMP snooping proxy
general-queries	Configures proxy for general-queries
mrt	(Optional) Configure max-response-time for the switch's proxy general-queries
<i>mrt</i>	(Optional) MRT in seconds

Command Mode

- /exec/configure

ip igmp snooping querier-timeout

```
{ { no ip igmp snooping querier-timeout [ <time> ] } | { ip igmp snooping querier-timeout <time> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
querier-timeout	Configures querier timeout for IGMPv2
<i>time</i>	(Optional) Time in seconds

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping querier-timeout

```
{ { no ip igmp snooping querier-timeout [ <time> ] } | { ip igmp snooping querier-timeout <time> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
querier-timeout	Configures querier timeout for IGMPv2
<i>time</i>	(Optional) Time in seconds

Command Mode

- /exec/configure/vlan

ip igmp snooping querier

```
{ { no ip igmp snooping querier [ <querier> ] } | { ip igmp snooping querier <querier> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
querier	Enables snooping querier
<i>querier</i>	(Optional) Querier IP address

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping querier

```
{ { no ip igmp snooping querier [ <querier> ] } | { ip igmp snooping querier <querier> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
querier	Enables snooping querier
<i>querier</i>	(Optional) Querier IP address

Command Mode

- /exec/configure/vlan

ip igmp snooping query-interval

```
{ { no ip igmp snooping query-interval [ <interval> ] } | { ip igmp snooping query-interval <interval> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
query-interval	Configures interval between query transmission
<i>interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping query-interval

{ { no ip igmp snooping query-interval [<interval>] } | { ip igmp snooping query-interval <interval> } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
query-interval	Configures interval between query transmission
<i>interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure/vlan

ip igmp snooping query-max-response-time

```
{ { no ip igmp snooping query-max-response-time [ <time> ] } | { ip igmp snooping query-max-response-time <time> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
query-max-response-time	Configures MRT for query messages
<i>time</i>	(Optional) Time in seconds

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping query-max-response-time

```
{ { no ip igmp snooping query-max-response-time [ <time> ] } | { ip igmp snooping query-max-response-time <time> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
query-max-response-time	Configures MRT for query messages
<i>time</i>	(Optional) Time in seconds

Command Mode

- /exec/configure/vlan

ip igmp snooping report-flood all

```
{ { ip igmp snooping report-flood { all | interface <interface> } } | { no ip igmp snooping report-flood { all | interface <interface> } } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
report-flood	Configures Report flooding on a VLAN
interface	Specify interface for report flooding
all	Flood on ALL active ports of VLAN
<i>interface</i>	Interface name

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping report-suppression

{ { no ip igmp snooping report-suppression } | { ip igmp snooping report-suppression } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
report-suppression	Configures IGMPv1/IGMPv2 Report Suppression for the VLAN/BD

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping report-suppression

{ { no ip igmp snooping report-suppression } | { ip igmp snooping report-suppression } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
report-suppression	Configures IGMPv1/IGMPv2 Report Suppression for the VLAN/BD

Command Mode

- /exec/configure/vlan

ip igmp snooping report-suppression

{ { no ip igmp snooping report-suppression } | { ip igmp snooping report-suppression } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
report-suppression	Configures Global IGMPv1/IGMPv2 Report Suppression

Command Mode

- /exec/configure

ip igmp snooping report prefix interface

```
{ [ no ] ip igmp snooping { report-policy | access-group } { prefix-list | route-map } <pname> interface
<interface> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
report-policy	IGMP Report Policy
access-group	IGMP access-group
prefix-list	IPv4 Prefix-List Policy
route-map	Route-Map Policy
<i>pname</i>	Policy Name Name
interface	Specify interface for filtering
<i>interface</i>	Interface name

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping robustness-variable

```
{ { no ip igmp snooping robustness-variable [ <value> ] } | { ip igmp snooping robustness-variable <value> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
robustness-variable	Configures RFC defined Robustness Variable
<i>value</i>	(Optional) Count value

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping robustness-variable

```
{ { no ip igmp snooping robustness-variable [ <value> ] } | { ip igmp snooping robustness-variable <value> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
robustness-variable	Configures RFC defined Robustness Variable
<i>value</i>	(Optional) Count value

Command Mode

- /exec/configure/vlan

ip igmp snooping self-mac-check

[no] ip igmp snooping self-mac-check

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
self-mac-check	enable loopback packet check and drop it
snooping	Configures IGMP Snooping

Command Mode

- /exec/configure

ip igmp snooping startup-query-count

```
{ { no ip igmp snooping startup-query-count [ <count> ] } | { ip igmp snooping startup-query-count <count> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
startup-query-count	Configures number of queries sent at startup
<i>count</i>	(Optional) Count value

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping startup-query-count

```
{ { no ip igmp snooping startup-query-count [ <count> ] } | { ip igmp snooping startup-query-count <count> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
startup-query-count	Configures number of queries sent at startup
<i>count</i>	(Optional) Count value

Command Mode

- /exec/configure/vlan

ip igmp snooping startup-query-interval

```
{ { no ip igmp snooping startup-query-interval [ <interval> ] } | { ip igmp snooping startup-query-interval <interval> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
startup-query-interval	Configures query interval at startup
<i>interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping startup-query-interval

```
{ { no ip igmp snooping startup-query-interval [ <interval> ] } | { ip igmp snooping startup-query-interval <interval> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
startup-query-interval	Configures query interval at startup
<i>interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure/vlan

ip igmp snooping static-group interface

```
{ [ no ] ip igmp snooping static-group <group> [ source <source> ] interface [ vsi ] <interface> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
static-group	Configures static group membership
<i>group</i>	Group IP Address
source	(Optional) Configures static (S,G) channel
<i>source</i>	(Optional) Source IP Address
interface	Specify interface for static-group
vsi	(Optional) Specify if this interface is a VSI
<i>interface</i>	Interface name

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping static-group interface

```
{ { no ip igmp snooping static-group <group> [ source <source> ] interface <interface> } | { ip igmp snooping static-group <group> [ source <source> ] interface <interface> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
static-group	Configures static group membership
<i>group</i>	Group IP Address
source	(Optional) Configures static (S,G) channel
<i>source</i>	(Optional) Source IP Address
interface	Specify interface for static-group
<i>interface</i>	Interface name

Command Mode

- /exec/configure/vlan

ip igmp snooping syslog-threshold

{ ip igmp snooping syslog-threshold <percentage> } | { no ip igmp snooping syslog-threshold }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
syslog-threshold	IGMP SNOOPING table syslog threshold
<i>percentage</i>	Percentage

Command Mode

- /exec/configure

ip igmp snooping v3-report-suppression

{ { no ip igmp snooping v3-report-suppression } | { ip igmp snooping v3-report-suppression } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
v3-report-suppression	Configures IGMPv3 Report Suppression and Proxy Reporting for the VLAN/BD

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping v3-report-suppression

```
{ { no ip igmp snooping v3-report-suppression } | { ip igmp snooping v3-report-suppression } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
v3-report-suppression	Configures IGMPv3 Report Suppression and Proxy Reporting for the VLAN/BD

Command Mode

- /exec/configure/vlan

ip igmp snooping v3-report-suppression

```
{ { no ip igmp snooping v3-report-suppression } | { ip igmp snooping v3-report-suppression } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
v3-report-suppression	Configures Global IGMPv3 Report Suppression and Proxy Reporting

Command Mode

- /exec/configure

ip igmp snooping version

```
{ { no ip igmp snooping version [ <version> ] } | { ip igmp snooping version <version> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
version	Configures IGMP version number for VLAN/BD
<i>version</i>	(Optional) Version number value

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

ip igmp snooping version

```
{ { no ip igmp snooping version [ <version> ] } | { ip igmp snooping version <version> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP configuration commands
snooping	Configures IGMP Snooping
version	Configures IGMP version number for VLAN/BD
<i>version</i>	(Optional) Version number value

Command Mode

- /exec/configure/vlan

ip igmp snooping vpc

ip igmp snooping vpc { clear-cfs-flag | clear-pending-flag | clear-native-flag }

Syntax Description

ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
vpc	vPC related command
clear-cfs-flag	clear cfs learnt flag from the routes / oifs
clear-native-flag	clear native learnt flag from the routes / oifs
clear-pending-flag	clear pending flag if set

Command Mode

- /exec/configure

ip igmp snooping vpc

ip igmp snooping vpc [vpc-incremental | vpc-sync-only]

Syntax Description

ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
vpc	vPC related events
vpc-sync-only	(Optional) default - no vpc-incremental with route proxy disabled
vpc-incremental	(Optional) vpc-incremental mode with route proxy enabled

Command Mode

- /exec/configure

ip igmp snooping vpc peer-link-exclude

[no] ip igmp snooping vpc peer-link-exclude

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
vpc	Configures vPC
peer-link-exclude	Exclude vPC Peer-link for Routed multicast traffic

Command Mode

- /exec/configure

ip igmp snooping vpc peer-routes-download

ip igmp snooping vpc peer-routes-download [stale]

Syntax Description

ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
vpc	vPC related command
peer-routes-download	get peer-learned routes
stale	(Optional) stale the cfs learnt entry, i.e. clear cfs_flag

Command Mode

- /exec/configure

ip igmp snooping vxlan-umc drop

[no] ip igmp snooping vxlan-umc drop [vlan <vlans-range>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
vxlan-umc	Turn off flooding on VLANs
drop	Drop unknown multicast traffic on all VLANs
vlan	(Optional) VLAN list to drop the unknown multicast traffic
<i>vlans-range</i>	(Optional) VLAN IDs for which unknown multicast traffic is dropped

Command Mode

- /exec/configure

ip igmp snooping vxlan

{ { no ip igmp snooping vxlan } | { ip igmp snooping vxlan } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
snooping	Configures IGMP Snooping
vxlan	Configures Snooping for vxlan vlans

Command Mode

- /exec/configure

ip igmp spoof-check

[no] ip igmp spoof-check

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
spoof-check	Enable spoof check for IGMP

Command Mode

- /exec/configure

ip igmp ssm-translate

[no] ip igmp ssm-translate <group> <source>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP global configuration commands
ssm-translate	Translate IGMPv1/v2 reports to (S,G) route entries
<i>group</i>	IP Multicast group range
<i>source</i>	IP Multicast address source

Command Mode

- /exec/configure /exec/configure/vrf

ip igmp startup-query-count

```
{ { no ip igmp startup-query-count [ <count> ] } | { ip igmp startup-query-count <count> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
startup-query-count	Configures number of queries sent at startup
<i>count</i>	(Optional) Count value

Command Mode

- /exec/configure/if-igp

ip igmp startup-query-interval

```
{ { no ip igmp startup-query-interval [ <interval> ] } | { ip igmp startup-query-interval <interval> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
startup-query-interval	Configures query interval at startup
<i>interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure/if-igp

ip igmp state-limit

```
{ { ip igmp state-limit <max-states> [ reserved <route-map-name> <max-reserved> ] } | { no ip igmp state-limit [ <max-states> [ reserved <route-map-name> <max-reserved> ] ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
state-limit	Configures State limit
<i>max-states</i>	Maximum states allowed
reserved	(Optional) Reserve the states using route-map
<i>route-map-name</i>	(Optional) Route-map name
<i>max-reserved</i>	(Optional) Maximum (*,G)/(S,G) entries allowed on the interface

Command Mode

- /exec/configure/if-igp

ip igmp static-oif

```
[no] ip igmp static-oif { { <group> [ source <source> ] } | { route-map <route-map-name> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
static-oif	Configures static oif for a multicast forwarding entry
<i>group</i>	Multicast group IP address
source	(Optional) Configures source address for IGMPv3 (S,G) Channel
<i>source</i>	(Optional) Source IP address
route-map	Static group policy
<i>route-map-name</i>	Route-map name

Command Mode

- /exec/configure/if-igp

ip igmp suppress v3-gsq

[no] ip igmp suppress v3-gsq

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
suppress	Suppress
v3-gsq	v3 GSQ

Command Mode

- /exec/configure/if-igp

ip igmp suppress v3-gsq

[no] ip igmp suppress v3-gsq

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
suppress	Suppress
v3-gsq	v3 GSQ

Command Mode

- /exec/configure/if-igp

ip igmp syslog-threshold

```
{ ip igmp syslog-threshold <percentage> } | { no ip igmp syslog-threshold }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP related events
syslog-threshold	IGMP table syslog threshold
<i>percentage</i>	Percentage

Command Mode

- /exec/configure

ip igmp version

```
{ { no ip igmp version [ <version> ] } | { ip igmp version <version> } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
igmp	IGMP interface configuration commands
version	Configures IGMP version number for interface
<i>version</i>	(Optional) Version number value

Command Mode

- /exec/configure/if-igp

ip load-sharing address

```
[no] ip load-sharing address { source-destination [ port source-destination2 | gre | gre-outer ] | destination
port2 destination2 | source } { [ rotate <rotate> ] | [ concatenation ] } + [ universal-id <random-seed> ] | no
ip load-sharing address
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
load-sharing	ECMP load-sharing
address	Configure source/destination addresses, port numbers and hash
source-destination	Use both source and destination values for address
port	(Optional) Use source-destination value for port
gre	(Optional) Use source-destination value for gre-key
gre-outer	(Optional) Use outer IPv4 header fields for GRE tunnel hashing
source-destination2	(Optional) Use both source and destination values for port
destination	Use destination address
port2	Use destination value for port
destination2	Use destination port
source	Use source address
rotate	(Optional) Offset to be used in the hash
<i>rotate</i>	(Optional) Value used for offset, default value is 32
concatenation	(Optional) Enable/Disable concatenation
universal-id	(Optional) Universal-id to randomize hash functions for load-balance
<i>random-seed</i>	(Optional) Value used to randomize hash

Command Mode

- /exec/configure

ip local-proxy-arp

{ ip local-proxy-arp [no-hw-flooding] | no ip local-proxy-arp [no-hw-flooding] }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
local-proxy-arp	Configure local proxy ARP
no-hw-flooding	(Optional) Configure local proxy ARP without hardware flooding

Command Mode

- /exec/configure/if-igp /exec/configure/if-vlan-common

ip local policy route-map

ip local policy route-map <route-map-name> | no ip local policy route-map [<route-map-name> | <route-map-name>]

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
local	Configure local PBR feature
policy	Configure PBR feature
route-map	Route-map for PBR
<i>route-map-name</i>	Route-map name
<i>route-map-name</i>	(Optional) Route-map name
<i>route-map-name</i>	(Optional) Known route-map name

Command Mode

- /exec/configure /exec/configure/vrf

ip mroute

```
[no] ip mroute { <ip-addr> <ip-mask> | <ip-prefix> } { { <next-hop> | <nh-prefix> } | <interface> } [ <pref> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

<code>no</code>	(Optional) Negate a command or set its defaults
<code>ip</code>	Configure IP features
<code>mroute</code>	Configure multicast RPF static route
<i>ip-addr</i>	IP prefix in format i.i.i.i
<i>ip-mask</i>	IP network mask in format m.m.m.m
<i>ip-prefix</i>	IP prefix and network mask length in format x.x.x.x/m
<i>next-hop</i>	IP next-hop address in format i.i.i.i
<i>nh-prefix</i>	IP next-hop prefix in format i.i.i.i/m
<i>interface</i>	Interface for interface static multicast routes
<i>pref</i>	(Optional) Route preference
<code>vrf</code>	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp description

ip msdp description <peer-address> <text> | no ip msdp description <peer-address> [<text>]

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
description	Configure MSDP description for peer
<i>peer-address</i>	IP address of MSDP peer
<i>text</i>	Text description

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp event-history cli

[no] ip msdp event-history cli { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
event-history	Configure event-history buffer
cli	CLI logs for MSDP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip msdp event-history events

```
[no] ip msdp event-history events { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
event-history	Configure event-history buffer
events	Peer events for MSDP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip msdp event-history msdp-internal

```
[no] ip msdp event-history msdp-internal { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
event-history	Configure event-history buffer
msdp-internal	Internal logs for MSDP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip msdp event-history routes

[no] ip msdp event-history routes { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
event-history	Configure event-history buffer
routes	Route logs for MSDP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip msdp event-history tcp

[no] ip msdp event-history tcp { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
event-history	Configure event-history buffer
tcp	TCP logs for MSDP
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip msdp flush-routes

[no] ip msdp flush-routes

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
flush-routes	Remove routes when restarting MSDP

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp group-limit source

[no] ip msdp group-limit <limit> source <sprefix>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
group-limit	Limit the number of groups per source
<i>limit</i>	Limit on number of groups
source	Sources to limit groups to
<i>sprefix</i>	Prefix to match sources against

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp keepalive

ip msdp keepalive <peer-address> <interval> <timeout> | no ip msdp keepalive <peer-address> [<interval> <timeout>]

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
keepalive	Configure MSDP keepalive parameters for peer
<i>peer-address</i>	IP address of MSDP peer
<i>interval</i>	Keepalive interval in seconds
<i>timeout</i>	Keepalive timeout in seconds

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp mesh-group

ip msdp mesh-group <peer-address> <name> | no ip msdp mesh-group <peer-address> [<name>]

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
mesh-group	Configure member of mesh-group
<i>name</i>	Name of mesh-group
<i>peer-address</i>	IP address of MSDP peer in mesh-group

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp no-sa-data

[no] ip msdp no-sa-data

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
no-sa-data	Don't send SA-encapsulated data

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp originator-id

ip msdp originator-id <interface> | no ip msdp originator-id [<interface>]

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
originator-id	Configure alternative router-id for MSDP
<i>interface</i>	Use IP address of interface for originator-id

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp password

ip msdp password <peer-address> <password> | no ip msdp password <peer-address> [<password>]

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
password	Configure MD5 authentication password
<i>peer-address</i>	IP address of MSDP peer
<i>password</i>	MD5 password

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp peer connect-source

```
{ { ip msdp peer <peer-address> connect-source <interface> [ remote-as <asn> ] } | { no ip msdp peer
<peer-address> [ connect-source <interface> ] [ remote-as <asn> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
peer	Configure MSDP peer
<i>peer-address</i>	IP address of MSDP peer
connect-source	Configure local IP address for TCP connection
<i>interface</i>	Use IP address of interface for peer address
remote-as	(Optional) Configure remote Autonomous System Number
<i>asn</i>	(Optional) AS number

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp reconnect-interval

ip msdp reconnect-interval <interval> | no ip msdp reconnect-interval [<interval>]

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
reconnect-interval	Configure connection reconnect interval
<i>interval</i>	Interval in seconds

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp redistribute

[no] ip msdp redistribute [route-map <route-map-name> | prefix-list <prefix-list-name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
redistribute	Configure SA policy for all MSDP peer
route-map	(Optional) route-map policy
<i>route-map-name</i>	(Optional) Route-map name
prefix-list	(Optional) Prefix list policy
<i>prefix-list-name</i>	(Optional) Name of prefix-list

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp sa-interval

ip msdp sa-interval <interval> | no ip msdp sa-interval [<interval>]

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
sa-interval	Configure Source-Active message transmission interval
<i>interval</i>	Interval in seconds

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp sa-limit

ip msdp sa-limit <peer-address> <limit> | no ip msdp sa-limit <peer-address> [<limit>]

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
sa-limit	Configure maximum (S,G) entries allowed
<i>limit</i>	Number of (S,G) entries
<i>peer-address</i>	IP address of MSDP peer in mesh-group

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp sa-policy in

```
[no] ip msdp sa-policy <peer-address> { <route-map-name> | prefix-list <prefix-list-name> | <rtr_pol_name> } in
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
sa-policy	Configure SA policy for MSDP peer
prefix-list	Prefix list policy
in	Input policy
<i>peer-address</i>	IP address of MSDP peer for SA policy
<i>route-map-name</i>	Route-map name
<i>prefix-list-name</i>	Name of prefix-list
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp sa-policy out

```
[no] ip msdp sa-policy <peer-address> { <route-map-name> | prefix-list <prefix-list-name> | <rtr_pol_name> } out
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
sa-policy	Configure SA policy for MSDP peer
prefix-list	Prefix list policy
out	Output policy
<i>peer-address</i>	IP address of MSDP peer for SA policy
<i>route-map-name</i>	Route-map name
<i>prefix-list-name</i>	Name of prefix-list
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ip msdp shutdown

ip msdp shutdown <peer-address> | no ip msdp shutdown <peer-address>

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
msdp	MSDP global configuration commands
shutdown	Administratively shut down peer
<i>peer-address</i>	IP address of MSDP peer

Command Mode

- /exec/configure /exec/configure/vrf

ip mtu eigrp

```
{ { { ip | ipv6 } mtu eigrp <eigrp-ptag> <mtu> } | { no { ip | ipv6 } mtu eigrp <eigrp-ptag> [ <mtu> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
mtu	Set Max Packet Size to be used by EIGRP
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>mtu</i>	Interface MTU
<i>eigrp-ptag</i>	

Command Mode

- /exec/configure/if-igp

ip multicast overlay-distributed-dr

[no] ip multicast overlay-distributed-dr

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
multicast	Configure multicast
overlay-distributed-dr	Configure node as Distributed-DR

Command Mode

- /exec/configure

ip multicast overlay-spt-only

[no] ip multicast overlay-spt-only

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
multicast	Configure multicast
overlay-spt-only	Enable L3-Overlay spt(shortest-path-tree) only

Command Mode

- /exec/configure

ip name-server

```
[no] ip name-server { { <ipv4_0> | <ipv6_1> } [ { <ipv4_2> | <ipv6_3> } [ { <ipv4_4> | <ipv6_5> } [ { <ipv4_6> | <ipv6_7> } [ { <ipv4_8> | <ipv6_9> } [ { <ipv4_10> | <ipv6_11> } ] ] ] ] ] { <ipv4_12> | <ipv6_13> } [ use-vrf { <vrf-name> | <vrf-known-name> } ] | { <ipv4_14> | <ipv6_15> } [ { <ipv4_16> | <ipv6_17> } [ use-vrf { <vrf-name> | <vrf-known-name> } ] ] | { <ipv4_18> | <ipv6_19> } [ { <ipv4_20> | <ipv6_21> } [ { <ipv4_22> | <ipv6_23> } [ use-vrf { <vrf-name> | <vrf-known-name> } ] ] ] | { <ipv4_24> | <ipv6_25> } [ { <ipv4_26> | <ipv6_27> } [ { <ipv4_28> | <ipv6_29> } [ { <ipv4_30> | <ipv6_31> } [ use-vrf { <vrf-name> | <vrf-known-name> } ] ] ] ] | { <ipv4_32> | <ipv6_33> } [ { <ipv4_34> | <ipv6_35> } [ { <ipv4_36> | <ipv6_37> } [ { <ipv4_38> | <ipv6_39> } [ { <ipv4_40> | <ipv6_41> } [ use-vrf { <vrf-name> | <vrf-known-name> } ] ] ] ] ] | { <ipv4_42> | <ipv6_43> } [ { <ipv4_44> | <ipv6_45> } [ { <ipv4_46> | <ipv6_47> } [ { <ipv4_48> | <ipv6_49> } [ { <ipv4_50> | <ipv6_51> } [ { <ipv4_52> | <ipv6_53> } [ use-vrf { <vrf-name> | <vrf-known-name> } ] ] ] ] ] ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
name-server	Specify nameserver address
<i>ipv4_0</i>	Enter an IPv4 address
<i>ipv4_2</i>	(Optional) Enter an IPv4 address
<i>ipv4_4</i>	(Optional) Enter an IPv4 address
<i>ipv4_6</i>	(Optional) Enter an IPv4 address
<i>ipv4_8</i>	(Optional) Enter an IPv4 address
<i>ipv4_10</i>	(Optional) Enter an IPv4 address
<i>ipv4_12</i>	Enter an IPv4 address
use-vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>ipv4_14</i>	Enter an IPv4 address
<i>ipv4_16</i>	(Optional) Enter an IPv4 address
<i>ipv4_18</i>	Enter an IPv4 address
<i>ipv4_20</i>	(Optional) Enter an IPv4 address
<i>ipv4_22</i>	(Optional) Enter an IPv4 address
<i>ipv4_24</i>	Enter an IPv4 address

<i>ipv4_26</i>	(Optional) Enter an IPv4 address
<i>ipv4_28</i>	(Optional) Enter an IPv4 address
<i>ipv4_30</i>	(Optional) Enter an IPv4 address
<i>ipv4_32</i>	Enter an IPv4 address
<i>ipv4_34</i>	(Optional) Enter an IPv4 address
<i>ipv4_36</i>	(Optional) Enter an IPv4 address
<i>ipv4_38</i>	(Optional) Enter an IPv4 address
<i>ipv4_40</i>	(Optional) Enter an IPv4 address
<i>ipv4_42</i>	Enter an IPv4 address
<i>ipv4_44</i>	(Optional) Enter an IPv4 address
<i>ipv4_46</i>	(Optional) Enter an IPv4 address
<i>ipv4_48</i>	(Optional) Enter an IPv4 address
<i>ipv4_50</i>	(Optional) Enter an IPv4 address
<i>ipv4_52</i>	(Optional) Enter an IPv4 address

Command Mode

- /exec/configure /exec/configure/vrf

ip nat inside

[no] ip nat { inside | outside }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
nat	NAT interface commands
inside	Inside interface for address translation
outside	Outside interface for address translation

Command Mode

- /exec/configure/if-port-channel /exec/configure/if-vlan /exec/configure/if-remote-ethernet /exec/configure/if-igp /exec/configure/if-routing

ip nat inside source

```
[no] ip nat inside source { { static <insideLocalIP> <insideGlobalIP> [ vrf <vrf-name> [ match-in-vrf ] ] [
group <group-id> [ dynamic ] ] [ no-alias ] [ add-route ] } | { static { tcp | udp } <insideLocalIP>
<insideLocalPort> <insideGlobalIP> <insideGlobalPort> [ vrf <vrf-name> [ match-in-vrf ] ] [ group <group-id>
[ dynamic ] ] [ no-alias ] [ add-route ] } | { list <acl-name> } { pool <pool-name> [ vrf <vrf-name> [
match-in-vrf ] ] [ overload ] | interface <globalAddrInterface> [ vrf <vrf-name> [ match-in-vrf ] ] overload }
[ group <group-id> dynamic ] [ add-route ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
nat	NAT configuration commands
inside	Inside address translation
source	Source address translation
static	Specify static local->global mapping
tcp	Transmission Control Protocol
udp	User Datagram Protocol
list	Specify access list describing local addresses
pool	Name pool of global addresses
interface	Specify interface for global address
vrf	(Optional) Specify vrf
match-in-vrf	(Optional) Match incoming vrf
no-alias	(Optional) Do not create alias for this NAT-address
dynamic	(Optional) Dynamic twice NAT group
<i>insideLocalIP</i>	Inside local IP address
<i>insideLocalPort</i>	Local UDP/TCP port
<i>insideGlobalIP</i>	Inside global IP address
<i>insideGlobalPort</i>	Global UDP/TCP port
group	(Optional) Specify group for the twice NAT
<i>group-id</i>	(Optional) Group ID for the twice NAT
<i>acl-name</i>	Access-list-name

<i>pool-name</i>	Pool name for global addresses
<i>add-route</i>	(Optional) Add a static route for outside local address
<i>vrf-name</i>	(Optional) vrf name
<i>globalAddrInterface</i>	interface type and number in module/slot format
<i>overload</i>	(Optional) Overload an address translation

Command Mode

- /exec/configure

ip nat outside source

```
[no] ip nat outside source { static <outsideGlobalIP> <outsideLocalIP> [ vrf <vrf-name> [ match-in-vrf ] ] [
group <group-id> [ dynamic ] ] [ no-alias ] [ add-route ] | static { tcp | udp } <outsideGlobalIP>
<outsideGlobalPort> <outsideLocalIP> <outsideLocalPort> [ vrf <vrf-name> [ match-in-vrf ] ] [ group
<group-id> [ dynamic ] ] [ no-alias ] [ add-route ] | list <acl-name> pool <pool-name> [ vrf <vrf-name> [
match-in-vrf ] ] [ group <group-id> dynamic ] } [ add-route ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
nat	NAT configuration commands
outside	Outside address translation
source	Source address translation
static	Specify static global->local mapping
tcp	Transmission Control Protocol
udp	User Datagram Protocol
list	Specify access list describing local addresses
pool	Name pool of global addresses
vrf	(Optional) Specify vrf
match-in-vrf	(Optional) Match incoming vrf
no-alias	(Optional) Do not create alias for this NAT-address
<i>outsideGlobalIP</i>	Outside global IP address
<i>outsideGlobalPort</i>	Outside Global UDP/TCP port
<i>outsideLocalIP</i>	Outside local IP address
<i>outsideLocalPort</i>	Outside Local UDP/TCP port
group	(Optional) Specify group for the twice NAT
dynamic	(Optional) Dynamic twice NAT group
<i>group-id</i>	(Optional) Group ID for the twice NAT
<i>acl-name</i>	Access-list-name
<i>vrf-name</i>	(Optional) vrf name
<i>pool-name</i>	Pool name for global addresses

add-route	(Optional) Add a static route for outside local address
-----------	---

Command Mode

- /exec/configure

ip nat pool netmask

```
ip nat pool <pool-name> { netmask <netmask> | prefix-length <prefix-length> } [ no-alias ]
```

Syntax Description

ip	Configure IP features
nat	NAT configuration commands
pool	Define pool of addresses
netmask	Specify the network mask
prefix-length	Specify the prefix length
no-alias	(Optional) Do not create alias for these pool addresses
<i>pool-name</i>	Pool name
<i>netmask</i>	Network mask
<i>prefix-length</i>	Prefix length

Command Mode

- /exec/configure

ip nat pool netmask

```
ip nat pool <pool-name> <start-ip> <end-ip> { netmask <netmask> | prefix-length <prefix-length> } [ no-alias ] | no ip nat pool <pool-name>
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
nat	NAT configuration commands
pool	Define pool of addresses
netmask	Specify the network mask
prefix-length	Specify the prefix length
no-alias	(Optional) Do not create alias for these pool addresses
<i>pool-name</i>	Pool name
<i>start-ip</i>	Start IP address
<i>end-ip</i>	End IP address
<i>netmask</i>	Network mask
<i>prefix-length</i>	Prefix length

Command Mode

- /exec/configure

ip nat translation

```
[no] ip nat translation { { tcp-timeout | udp-timeout | timeout } <timeout> } | { finrst-timeout { <fin_timeout>
| never } | syn-timeout { <syn_timeout> | never } | timeout }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
nat	NAT configuration commands
translation	NAT translation entry configuration
tcp-timeout	Specify timeout for NAT TCP flows
udp-timeout	Specify timeout for NAT UDP flows
finrst-timeout	Specify timeout for NAT TCP flows after a FIN or RST
syn-timeout	Specify timeout for NAT TCP flows after a SYN and no further data
timeout	Specify timeout for dynamic NAT flows
never	Never timeout
<i>timeout</i>	Timeout in seconds
<i>fin_timeout</i>	Timeout in seconds
<i>syn_timeout</i>	Timeout in seconds

Command Mode

- /exec/configure

ip nat translation max-entries

ip nat translation max-entries [all-host] <max> | no ip nat translation max-entries [all-host]

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
nat	NAT configuration commands
translation	NAT translation entry configuration
max-entries	Specify maximum number of NAT dynamic entries
all-host	(Optional) Specify maximum number of NAT entries for each host
<i>max</i>	Number of entries

Command Mode

- /exec/configure

ip nat translation sampling-timeout

[no] ip nat translation sampling-timeout <timeout>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
nat	NAT configuration commands
translation	NAT translation entry configuration
sampling-timeout	Specify timeout after which the checking for activity is done
<i>timeout</i>	Timeout in seconds (max: 2days, recommended 900s)

Command Mode

- /exec/configure

ip next-hop-self eigrp

[no] { ip | ipv6 } next-hop-self eigrp <eigrp-ptag>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
next-hop-self	Configures IP-EIGRP next-hop-self
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag

Command Mode

- /exec/configure/if-igp

ip offset-list eigrp

```
[no] { ip | ipv6 } offset-list eigrp <eigrp-ptag> { { route-map <map> } | { prefix-list <list> } } { in | out }
<offset>
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
offset-list	Add or subtract offset from EIGRP metrics
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
route-map	Use a route-map for offset-list selection
<i>map</i>	Route-map name
prefix-list	Use a prefix-list for offset-list selection
<i>list</i>	Reference to prefix-list name
in	Perform offset on incoming updates
out	Perform offset on outgoing updates
<i>offset</i>	Offset

Command Mode

- /exec/configure/if-igp

ip ospf advertise-subnet

[no] ip ospf advertise-subnet

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
advertise-subnet	Advertise loopback interface IP subnet in router LSA

Command Mode

- /exec/configure/if-loopback

ip ospf authentication-key

```
{ { ip ospf authentication-key <key> } | { no ip ospf authentication-key [ <key> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
authentication-key	Configure the authentication key for the interface
<i>key</i>	Authentication key

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf authentication

[no] ip ospf authentication [message-digest | null]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
authentication	Authentication on the interface
message-digest	(Optional) Use message-digest authentication
null	(Optional) Use null(disable) authentication

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ip ospf authentication key-chain

```
{ ip ospf authentication key-chain <keychain> } | { no ip ospf authentication key-chain [ <keychain> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
authentication	Authentication on the interface
key-chain	Authentication password key-chain
<i>keychain</i>	Key-chain name

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf bfd

[no] ip ospf bfd [disable]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
bfd	Enable BFD on this interface
disable	(Optional) Disable BFD on this interface

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mgmt-config

ip ospf cost

```
{ ip ospf cost <cost> } | { no ip ospf cost [ <cost> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
cost	Cost associated with interface
<i>cost</i>	Cost value

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf dead-interval

```
{ ip ospf dead-interval <interval> } | { no ip ospf dead-interval [ <interval> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
dead-interval	Dead interval
<i>interval</i>	(seconds)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf event-history

```
[ ip ospf event-history { adjacency | event | ha | flooding | lsa | spf | redistribution | ldp | te | rib | hello | spf-trigger | objstore } size { <size_in_text> | <size_in_Kbytes> } ] | [ no ip ospf event-history { adjacency | event | ha | flooding | lsa | spf | redistribution | ldp | te | rib | hello | spf-trigger | objstore } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	(Optional) IP events
ospf	(Optional) Debug OSPF events
event-history	(Optional) log debug events into event history buffer
adjacency	(Optional) Adjacency formation logs
event	(Optional) Internal event logs
ha	(Optional) HA and GR logs
flooding	(Optional) LSA flooding logs
lsa	(Optional) LSA generation and database logs
spf	(Optional) SPF calculation logs
redistribution	(Optional) Redistribution logs
ldp	(Optional) LDP related logs
te	(Optional) MPLS TE related logs
rib	(Optional) RIB related logs
hello	(Optional) HELLO related logs
spf-trigger	(Optional) SPF TRIGGER related logs
objstore	(Optional) DME OBJSTORE related logs
size	(Optional) Configure the size of the event-hist buffer
<i>size_in_text</i>	(Optional) Buffer size
<i>size_in_Kbytes</i>	(Optional) Size of the file in kbytes

Command Mode

- /exec/configure/router-ospf

ip ospf event-history cli size

[no ip ospf event-history cli] | [ip ospf event-history cli size { <size_in_text> | <size_in_Kbytes> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	(Optional) IP events
ospf	(Optional) Debug OSPF events
event-history	(Optional) log debug events into event history buffer
cli	(Optional) Cli logs
size	(Optional) Configure the size of the event-hist buffer
<i>size_in_text</i>	(Optional) Buffer size
<i>size_in_Kbytes</i>	(Optional) Size of the file in kbytes

Command Mode

- /exec/configure/router-ospf

ip ospf event-history detail size

[no ip ospf event-history detail] | [ip ospf event-history detail size { <size_in_text> | <size_in_Kbytes> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	(Optional) IP events
ospf	(Optional) Debug OSPF events
event-history	(Optional) log debug events into event history buffer
detail	(Optional) Detailed event history buffer
size	(Optional) Configure the size of the verbose event-hist buffer
<i>size_in_text</i>	(Optional) Buffer size
<i>size_in_Kbytes</i>	(Optional) Size of the file in kbytes

Command Mode

- /exec/configure/router-ospf

ip ospf flood-bw-percentage

[no] ip ospf flood-bw-percentage <percentage>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
flood-bw-percentage	Percentage of bandwidth used for flooding
<i>percentage</i>	Negate a command or set its defaults

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf hello-interval

{ ip ospf hello-interval <interval> } | { no ip ospf hello-interval [<interval>] }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
hello-interval	Hello interval
<i>interval</i>	(seconds)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf message-digest-key md5

```
{ { ip ospf message-digest-key <keyid> md5 <key> } | { no ip ospf message-digest-key <keyid> [ md5 <key> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
message-digest-key	Message digest authentication password (key)
<i>keyid</i>	Key ID
md5	Use MD5 algorithm
<i>key</i>	The OSPF password (key)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf mtu-ignore

[no] ip ospf mtu-ignore

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
mtu-ignore	Disable OSPF MTU mismatch detection

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf network broadcast

```
{ ip ospf network { broadcast | point-to-point } } | { no ip ospf network [ { broadcast | point-to-point } ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
network	Network type
broadcast	Specify OSPF broadcast multi-access network
point-to-point	Specify OSPF point-to-point network

Command Mode

- /exec/configure/if-broadcast /exec/configure/if-p2p /exec/configure/if-mgmt-config

ip ospf network point-to-point

{ ip ospf network point-to-point } | { no ip ospf network [point-to-point] }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
network	Network type
point-to-point	Specify OSPF point-to-point network

Command Mode

- /exec/configure/if-loopback

ip ospf passive-interface

[default | no] ip ospf passive-interface

Syntax Description

default	(Optional) Undo a command
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
passive-interface	Suppress routing updates on the interface

Command Mode

- /exec/configure/if-broadcast /exec/configure/if-p2p /exec/configure/if-mgmt-config

ip ospf priority

```
{ ip ospf priority <prio> } | { no ip ospf priority [ <prio> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
priority	Router priority
<i>prio</i>	Router priority

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf retransmit-interval

{ ip ospf retransmit-interval <interval> } | { no ip ospf retransmit-interval [<interval>] }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
retransmit-interval	Packet retransmission interval
<i>interval</i>	(seconds)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip ospf shutdown

[no] ip ospf shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
shutdown	shutdown ospf on this interface

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mgmt-config

ip ospf transmit-delay

{ ip ospf transmit-delay <delay> } | { no ip ospf transmit-delay [<delay>] }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
ospf	OSPF configuration commands
transmit-delay	Packet transmission delay
<i>delay</i>	(seconds)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip passive-interface eigrp

[default | no] { ip | ipv6 } passive-interface eigrp <eigrp-ptag>

Syntax Description

default	(Optional) Undo a command
no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
passive-interface	Suppress routing updates on an interface
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag

Command Mode

- /exec/configure/if-igp

ip pim anycast-rp

[no] ip pim anycast-rp <anycast-rp> <rp-addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
anycast-rp	Configure an RP in an Anycast-RP set (using PIM)
<i>anycast-rp</i>	Address for the Anycast-RP address
<i>rp-addr</i>	Address of RP in the Anycast-RP set

Command Mode

- /exec/configure /exec/configure/vrf

ip pim assert-pad

[no] ip pim assert-pad

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
assert-pad	Change the PIM assert padding for interoperability

Command Mode

- /exec/configure

ip pim assert-rate-limit

```
{ { ip pim assert-rate-limit <rate> } | { no ip pim assert-rate-limit [ <rate> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
assert-rate-limit	Rate limit for PIM Asserts
<i>rate</i>	Packets per second

Command Mode

- /exec/configure /exec/configure/vrf

ip pim auto-enable

{ { no ip pim auto-enable } | { ip pim auto-enable } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
auto-enable	Auto-enable configure on the vrf

Command Mode

- /exec/configure /exec/configure/vrf

ip pim auto-rp listen

{ ip pim auto-rp { listen | forward } + } | { no ip pim auto-rp [{ listen | forward } +] }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
listen	Listen to Auto-RP messages
forward	Forward Auto-RP messages

Command Mode

- /exec/configure /exec/configure/vrf

ip pim auto-rp mapping-agent-policy

```
{ ip pim auto-rp mapping-agent-policy { <route-map-name> | <rtr_pol_name> } | no ip pim auto-rp mapping-agent-policy [ <route-map-name> | <rtr_pol_name> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
mapping-agent-policy	Specify policy for filtering Mapping Agent messages
<i>route-map-name</i>	Route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ip pim auto-rp mapping-agent send-rp-discovery

```
{ { ip pim { { auto-rp mapping-agent } | send-rp-discovery } <interface> [ scope <ttl> ] } | { no ip pim { { auto-rp mapping-agent } | send-rp-discovery } [ <interface> ] [ scope <ttl> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
send-rp-discovery	Configures router to send Auto-RP Discovery messages
mapping-agent	Configures router as an Auto-RP RP-mapping agent
<i>interface</i>	Use IP address of interface for Auto-RP Announce messages
scope	(Optional) Configure the scope of Auto-RP Discovery messages
<i>ttl</i>	(Optional) TTL value for scope

Command Mode

- /exec/configure /exec/configure/vrf

ip pim auto-rp rp-candidate-policy

{ ip pim auto-rp rp-candidate-policy { <route-map-name> | <rtr_pol_name> } | no ip pim auto-rp rp-candidate-policy [<route-map-name> | <rtr_pol_name>] }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
rp-candidate-policy	Specify policy for filtering RP candidate messages
<i>route-map-name</i>	Route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ip pim auto-rp rp-candidate send-rp-announce group-list route-map prefix-list

```
{ { ip pim { auto-rp rp-candidate | send-rp-announce } { <interface> | <ipaddr> } { group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> } { [ scope <ttl> ] | [ interval <interval> ] | [ bidir ] } } + } | { no ip pim { { auto-rp rp-candidate } | send-rp-announce } [ <interface> | <ipaddr> ] [ group-list <prefix> | route-map <route-map-name> | prefix-list <prefix-list-name> ] { [ scope <ttl> ] | [ interval <interval> ] | [ bidir ] } } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
send-rp-announce	Configures router to send Auto-RP Announce messages
rp-candidate	Configures router to be an Auto-RP candidate RP
<i>interface</i>	Use IP address of interface for Auto-RP Announce messages
<i>ipaddr</i>	IP address of RP for group
group-list	Group range list
<i>prefix</i>	Prefix of group range
route-map	Group range policy for Auto-RP Candidate RP
<i>route-map-name</i>	Route-map name
prefix-list	Prefix List policy for Auto-RP Candidate RP
<i>prefix-list-name</i>	Name of prefix-list
scope	(Optional) Configure the scope of Auto-RP Announce messages
<i>ttl</i>	(Optional) TTL value for scope
interval	(Optional) Auto-RP Announce message transmission interval
<i>interval</i>	(Optional) Interval in seconds
bidir	(Optional) Group range advertised in PIM bidirectional mode

Command Mode

- /exec/configure /exec/configure/vrf

ip pim bfd-instance

[no] ip pim bfd-instance [disable]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
bfd-instance	Configures BFD on interface
disable	(Optional) Disable BFD on interface

Command Mode

- /exec/configure/if-igp

ip pim bfd

[no] ip pim bfd

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
bfd	Enable / Disable BFD for all PIM interfaces in the VRF

Command Mode

- /exec/configure /exec/configure/vrf

ip pim bidir-rp-limit

[no] ip pim bidir-rp-limit <limit>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
bidir-rp-limit	Configures maximum Bidir RPs for IPv4 PIM in this VRF
<i>limit</i>	Set limit for Bidir RPs permitted in IPv4 PIM

Command Mode

- /exec/configure /exec/configure/vrf

ip pim border-router

[no] ip pim border-router

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
border-router	Configures the interface to be a boundary of a PIM-SM domain

Command Mode

- /exec/configure/if-igp

ip pim border

[no] ip pim border

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
border	Configures interface to be a boundary of a PIM domain

Command Mode

- /exec/configure/if-igp

ip pim bsr-candidate

```
{ { ip pim [ bsr ] bsr-candidate <interface> [ hash-len <hash-len> ] [ priority <priority> ] [ interval <interval> ] } | { no ip pim [ bsr ] bsr-candidate [ <interface> ] [ hash-len <hash-len> ] [ priority <priority> ] [ interval <interval> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
bsr	(Optional) Bootstrap protocol RP-distribution configuration
bsr-candidate	Configure router as a Bootstrap Router candidate
<i>interface</i>	Use IP address of interface for Bootstrap messages
hash-len	(Optional) Hash mask length used in Bootstrap messages
<i>hash-len</i>	(Optional) Hash mask length value
priority	(Optional) BSR priority used in Bootstrap messages
<i>priority</i>	(Optional) BSR priority value
interval	(Optional) Bootstrap message transmission interval
<i>interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure /exec/configure/vrf

ip pim bsr bsr-policy

```
{ ip pim bsr bsr-policy { <route-map-name> | <rtr_pol_name> } | no ip pim bsr bsr-policy [ <route-map-name> | <rtr_pol_name> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
bsr	Bootstrap protocol RP-distribution configuration
bsr-policy	Specify policy for filtering BSR messages
<i>route-map-name</i>	Route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ip pim bsr listen

{ ip pim bsr { listen | forward } + } | { no ip pim bsr [{ listen | forward } +] }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
bsr	Bootstrap protocol RP-distribution configuration
listen	Listen to Bootstrap/Candidate-RP messages
forward	Forward Bootstrap/Candidate-RP messages

Command Mode

- /exec/configure /exec/configure/vrf

ip pim bsr rp-candidate-policy

```
{ ip pim bsr rp-candidate-policy { <route-map-name> | <rtr_pol_name> } | no ip pim bsr rp-candidate-policy  
[ <route-map-name> | <rtr_pol_name> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
bsr	Bootstrap protocol RP-distribution configuration
rp-candidate-policy	Specify policy for filtering RP candidate messages
<i>route-map-name</i>	Route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ip pim cpu-punt dr-only

{ { no ip pim cpu-punt dr-only } | { ip pim cpu-punt dr-only } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
cpu-punt	Disable PIM NON-DR copy-to-cpu on RPF check failure
dr-only	Disable PIM NON-DR copy-to-cpu on RPF check failure

Command Mode

- /exec/configure /exec/configure/vrf

ip pim df-offer-burst-interval

[no] ip pim df-offer-burst-interval <burst-interval>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
df-offer-burst-interval	Interval between DF offer bursts
<i>burst-interval</i>	Interval in milliseconds

Command Mode

- /exec/configure /exec/configure/vrf

ip pim dr-delay

```
{ { ip pim dr-delay <delay> } | { no ip pim dr-delay [ <delay> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
dr-delay	Configures delay for PIM DR election on interface
<i>delay</i>	Delay value

Command Mode

- /exec/configure/if-igp

ip pim dr-priority

```
{ { ip pim dr-priority <priority> } | { no ip pim dr-priority [ <priority> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
dr-priority	Configures priority for PIM DR election on interface
<i>priority</i>	Priority value

Command Mode

- /exec/configure/if-igp

ip pim event-history assert

```
[no] ip pim event-history assert { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
assert	Assert events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history bidir

[no] ip pim event-history bidir { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
bidir	Bidir events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history cli

[no] ip pim event-history cli { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
cli	CLI events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history data-register-receive

```
[no] ip pim event-history data-register-receive { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
data-register-receive	Data register recv events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history hello

```
[no] ip pim event-history hello { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
hello	Hello events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history join-prune-summary

```
[no] ip pim event-history join-prune-summary { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
join-prune-summary	JoinPrune-Summary for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history join-prune-tw

```
[no] ip pim event-history join-prune-tw { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
join-prune-tw	JoinPrune-tw for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history join-prune

```
[no] ip pim event-history join-prune { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
join-prune	Join Prune events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history mrib

[no] ip pim event-history mrib { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	Configure PIM event history
event-history	Configure event-history buffer
mrib	MRIB events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history mvpn

[no] ip pim event-history mvpn { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	Configure PIM event history
event-history	Configure event-history buffer
mvpn	MVPN events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history null-register

```
[no] ip pim event-history null-register { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
null-register	Null register events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history packet

[no] ip pim event-history packet { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
packet	Packet events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history pim-internal

```
[no] ip pim event-history pim-internal { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
pim-internal	Internal events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history pim-library

```
[no] ip pim event-history pim-library { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	Configure PIM event history
event-history	Configure event-history buffer
pim-library	PIM library events
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history rp

[no] ip pim event-history rp { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
rp	RP events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history txlist

```
[no] ip pim event-history txlist { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	Configure PIM event history
event-history	Configure event-history buffer
txlist	Txlist events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history vpc

[no] ip pim event-history vpc { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	Configure PIM event history
event-history	Configure event-history buffer
vpc	vPC events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim event-history vrf

```
[no] ip pim event-history vrf { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
event-history	Configure event-history buffer
vrf	VRF events for PIM
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ip pim file-debug

[no] ip pim file-debug

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
file-debug	Collect all debugs to a file

Command Mode

- /exec/configure

ip pim flush-routes

[no] ip pim flush-routes

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
flush-routes	Remove routes when restarting PIM

Command Mode

- /exec/configure /exec/configure/vrf

ip pim group-list

```
[no] ip pim { use-shared-tree-only | spt-threshold infinity } group-list { <route-map-name> | prefix-list
<prefix-list-name> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
use-shared-tree-only	Use (*,G) only state, no source state is created
spt-threshold	Source-tree switching threshold
infinity	Never switch to source-tree
group-list	Specify group ranges through policy
<i>route-map-name</i>	Route-map name
prefix-list	Prefix List policy
<i>prefix-list-name</i>	Name of prefix-list

Command Mode

- /exec/configure /exec/configure/vrf

ip pim hello-authentication ah-md5

```
{ ip pim hello-authentication ah-md5 <auth-key> | no ip pim hello-authentication ah-md5 [ <auth-key> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
hello-authentication	Add AH header option to Hellos
ah-md5	Use MD5 HMAC
<i>auth-key</i>	MD5 authentication key

Command Mode

- /exec/configure/if-igp

ip pim hello-interval

```
{ { ip pim hello-interval <interval> } | { no ip pim hello-interval [ <interval> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
hello-interval	Configures the Hello interval for interface
<i>interval</i>	Interval in milliseconds

Command Mode

- /exec/configure/if-igp

ip pim isolate

[no] ip pim isolate

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
isolate	Isolate this router from PIM perspective

Command Mode

- /exec/configure

ip pim jp-delay

```
{ { ip pim jp-delay <delay> } | { no ip pim jp-delay [ <delay> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
jp-delay	Join-Prune message inter-packet delay
<i>delay</i>	Delay value in microseconds

Command Mode

- /exec/configure /exec/configure/vrf

ip pim jp-interval

[no] ip pim jp-interval <interval>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
jp-interval	Join-Prune interval used between peers
<i>interval</i>	Interval in seconds

Command Mode

- /exec/configure/if-igp

ip pim jp-policy

```
{ ip pim jp-policy { <route-map-name> | prefix-list <prefix-list-name> } [ in | out ] | no ip pim jp-policy {
<route-map-name> | prefix-list <prefix-list-name> } [ in | out ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
jp-policy	Specify policy for receiving Join-Prune messages
<i>route-map-name</i>	Route-map name
prefix-list	Prefix List policy for static RP
<i>prefix-list-name</i>	Name of prefix-list
in	(Optional) Inbound
out	(Optional) Outbound

Command Mode

- /exec/configure/if-igp

ip pim log-neighbor-changes

[no] ip pim log-neighbor-changes

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
log-neighbor-changes	Log up/down PIM neighbor transitions

Command Mode

- /exec/configure /exec/configure/vrf

ip pim mtu

[no] ip pim mtu <size>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
mtu	MTU for IP PIM packet
<i>size</i>	MTU

Command Mode

- /exec/configure

ip pim neighbor-policy prefix-list

```
{ { ip pim neighbor-policy { <route-map-name> | prefix-list <prefix-list-name> } } | { no ip pim neighbor-policy [ <route-map-name> | prefix-list <prefix-list-name> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
neighbor-policy	Configures a neighbor policy for filtering adjacencies
<i>route-map-name</i>	Route-map name
prefix-list	Prefix List policy for neighbor
<i>prefix-list-name</i>	Name of prefix-list

Command Mode

- /exec/configure/if-igp

ip pim non-dr flood

```
{ { no ip pim non-dr flood } | { ip pim non-dr flood } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
non-dr	Enable PIM NON-DR flood on vlan
flood	Enable PIM NON-DR flood on vlan

Command Mode

- /exec/configure /exec/configure/vrf

ip pim null-reg-delay

```
{ { ip pim null-reg-delay <delay> } | { no ip pim null-reg-delay [ <delay> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
null-reg-delay	Null registers inter-batch delay
<i>delay</i>	Delay value in microseconds

Command Mode

- /exec/configure /exec/configure/vrf

ip pim null-reg-routes

```
{ { ip pim null-reg-routes <num> } | { no ip pim null-reg-routes [ <num> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
null-reg-routes	Null registers number of routes
<i>num</i>	Numerical value

Command Mode

- /exec/configure /exec/configure/vrf

ip pim passive

{ ip pim passive | no ip pim passive }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
passive	Interface in passive mode. No send/rcv

Command Mode

- /exec/configure/if-igp

ip pim pre-build-spt

```
{ { { ip pim pre-build-spt [ force ] } [ route-map <route-map-name> | prefix-list <prefix-list-name> ] } | { no ip pim pre-build-spt } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
pre-build-spt	Pre construct PIM trees for all known (S,G)s
force	(Optional) Enable pre-build-spt irrespective of (*,G) state
route-map	(Optional) Route Map policy for pre-build-spt
<i>route-map-name</i>	(Optional) Route-map name
prefix-list	(Optional) Prefix List policy for pre-build-spt
<i>prefix-list-name</i>	(Optional) Name of prefix-list

Command Mode

- /exec/configure /exec/configure/vrf

ip pim register-policy

```
{ ip pim register-policy { <route-map-name> | prefix-list <prefix-list-name> } | no ip pim register-policy [ <route-map-name> | prefix-list <prefix-list-name> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
register-policy	Specify policy for receiving Register messages
<i>route-map-name</i>	Route-map name
prefix-list	Prefix List policy for Registers
<i>prefix-list-name</i>	Name of prefix-list

Command Mode

- /exec/configure /exec/configure/vrf

ip pim register-rate-limit

```
{ { ip pim register-rate-limit <rate> } | { no ip pim register-rate-limit [ <rate> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
register-rate-limit	Rate limit for PIM data registers
<i>rate</i>	Packets per second

Command Mode

- /exec/configure /exec/configure/vrf

ip pim register-replicate

[no] ip pim register-replicate

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
register-replicate	Enable software replication of decapsulated PIM Register packets

Command Mode

- /exec/configure

ip pim register-source

```
{ { ip pim register-source { <src-interface> } } | { no ip pim register-source [ <src-interface> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
register-source	Configure source address for Register messages
<i>src-interface</i>	Use IP address of this interface for Register messages

Command Mode

- /exec/configure /exec/configure/vrf

ip pim register-until-stop

[no] ip pim register-until-stop

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
register-until-stop	Send Data Registers till Register Stop is received

Command Mode

- /exec/configure

ip pim restart-congestion-period

```
{ { ip pim restart-congestion-period <period> } | { no ip pim restart-congestion-period [ <period> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
restart-congestion-period	PIM restart congestion period
<i>period</i>	Period value in seconds

Command Mode

- /exec/configure /exec/configure/vrf

ip pim rp-address

```
{ { ip pim rp-address <rp-address> [ group-list <prefix> | route-map <route-map-name> | prefix-list
<prefix-list-name> ] [ bidir ] [ override ] } | { no ip pim rp-address <rp-address> [ group-list <prefix> |
route-map <route-map-name> | prefix-list <prefix-list-name> ] [ bidir ] [ override ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
rp-address	Configure static RP for group range
<i>rp-address</i>	IP address of router which is RP for group range
group-list	(Optional) Group range for static RP
<i>prefix</i>	(Optional) Group range prefix
route-map	(Optional) Route Map policy for static RP
<i>route-map-name</i>	(Optional) Route-map name
prefix-list	(Optional) Prefix List policy for static RP
<i>prefix-list-name</i>	(Optional) Name of prefix-list
bidir	(Optional) Group range is treated in PIM bidirectional mode
override	(Optional) RP address will override the dynamically learnt RPs

Command Mode

- /exec/configure /exec/configure/vrf

ip pim rp-candidate group-list route-map prefix-list

```
{ { ip pim [ bsr ] rp-candidate <interface> { group-list <prefix> | route-map <route-map-name> | prefix-list
<prefix-list-name> } [ priority <priority> ] [ interval <interval> ] [ bidir ] } | { no ip pim [ bsr ] rp-candidate
[ <interface> ] [ group-list <prefix> ] [ route-map <route-map-name> ] [ prefix-list <prefix-list-name> ] [
priority <priority> ] [ interval <interval> ] [ bidir ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
bsr	(Optional) Bootstrap protocol RP-distribution configuration
rp-candidate	Configure router as a Rendezvous Point (RP) candidate
<i>interface</i>	Use IP address of interface for Candidate-RP messages
group-list	Group range list
<i>prefix</i>	Prefix of group range
route-map	Group range policy for Candidate RP
<i>route-map-name</i>	Route-map name
prefix-list	Prefix List policy for Candidate RP
<i>prefix-list-name</i>	Name of prefix-list
priority	(Optional) RP priority used in Candidate-RP messages
<i>priority</i>	(Optional) RP priority value
interval	(Optional) Bootstrap message transmission interval
<i>interval</i>	(Optional) Interval in seconds
bidir	(Optional) Group range advertised in PIM bidirectional mode

Command Mode

- /exec/configure /exec/configure/vrf

ip pim sg-expiry-timer infinity

```
{ { ip pim [ sparse ] sg-expiry-timer { <expiry-time> | infinity } [ sg-list <route-map-name> | prefix-list
<prefix-list-name> ] } | { no ip pim [ sparse ] sg-expiry-timer { <expiry-time> | infinity } [ sg-list
<route-map-name> | prefix-list <prefix-list-name> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
sparse	(Optional) PIM ASM
sg-expiry-timer	Adjust expiry time for PIM ASM (S,G) routes
<i>expiry-time</i>	Expiry timer interval in seconds
infinity	Never expire (S,G) route due to data inactivity
sg-list	(Optional) Specifies route-map for (S,G)s to apply the expiry timer
<i>route-map-name</i>	(Optional) Route-map name
prefix-list	(Optional) Specifies prefix-list for (S,G)s to apply the expiry timer
<i>prefix-list-name</i>	(Optional) Name of prefix-list

Command Mode

- /exec/configure /exec/configure/vrf

ip pim sparse-mode

ip pim sparse-mode | no ip pim [sparse-mode]

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
sparse-mode	Configures sparse-mode PIM on interface

Command Mode

- /exec/configure/if-igp

ip pim ssm

```
{ ip pim ssm { { range { <group> + | none } } | { route-map <route-map-name> } | { prefix-list
<prefix-list-name> } } | no ip pim ssm { { range { <group> + | none } } | { route-map <route-map-name> }
| { prefix-list <prefix-list-name> } } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
ssm	Source Specific Multicast (SSM) groups
range	Configure explicit group ranges
<i>group</i>	List of group range prefixes
route-map	Group range route-map policy for SSM range
<i>route-map-name</i>	Route-map name
prefix-list	Group range prefix-list policy for SSM range
<i>prefix-list-name</i>	Name of prefix-list
none	Remove all SSM group ranges

Command Mode

- /exec/configure /exec/configure/vrf

ip pim state-limit

```
{ { ip pim state-limit <max-states> [ reserved <route-map-name> <max-reserved> ] } | { no ip pim state-limit [ <max-states> [ reserved <route-map-name> <max-reserved> ] ] } }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
state-limit	Configures State limit
<i>max-states</i>	Maximum (*,G)/(S,G) entries allowed in this VRF
reserved	(Optional) Configures Reserved limit
<i>route-map-name</i>	(Optional) Route-map name
<i>max-reserved</i>	(Optional) Maximum reserved (*,G)/(S,G) entries allowed in this VRF

Command Mode

- /exec/configure /exec/configure/vrf

ip pim strict-rfc-compliant

{ { ip pim strict-rfc-compliant } | { no ip pim strict-rfc-compliant } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM global configuration commands
strict-rfc-compliant	Don't process joins from unknown neighbors

Command Mode

- /exec/configure /exec/configure/vrf

ip pim strict-rfc-compliant

{ { ip pim strict-rfc-compliant } | { no ip pim strict-rfc-compliant } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
pim	PIM interface configuration commands
strict-rfc-compliant	Dont process joins from unknown neighbors on this interface

Command Mode

- /exec/configure/if-igp

ip ping source-interface

[no] ip ping source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ping	Configure ping client
source-interface	Configure source interface feature for ping client
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec/configure

ip policy match router-address

[no] ip policy match router-address

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
policy	Configure PBR feature
match	Match values
router-address	Router's IP address

Command Mode

- /exec/configure

ip policy route-map

ip policy route-map <route-map-name> | no ip policy route-map [<route-map-name> | <route-map-name>]

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
policy	Configure PBR feature
route-map	Route-map for PBR
<i>route-map-name</i>	Route-map name
<i>route-map-name</i>	(Optional) Route-map name
<i>route-map-name</i>	(Optional) Known route-map name

Command Mode

- /exec/configure/if-igp

ip port-unreachable

[no] ip port-unreachable

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
port-unreachable	Enable sending ICMP port-unreachable

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config

ip port access-group

[no] ip port access-group <name> <inout>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
port	Port policy
access-group	Specify access control for packets
<i>name</i>	List name
<i>inout</i>	Traffic direction

Command Mode

- /exec/configure/if-set-acl-l2

ip prefix-list description

```
{ ip prefix-list <ipv4-pfl-name> description <line> } | { no ip prefix-list <ipv4-pfl-name> description }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
prefix-list	Build a prefix list
<i>ipv4-pfl-name</i>	Name of prefix-list
<i>ipv4-pfl-name</i>	Known prefix-list name
description	Description of the IP prefix list
<i>line</i>	IP prefix-list description string

Command Mode

- /exec/configure

ip prefix-list permit

```
{ ip prefix-list <ipv4-pfl-name> { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] [ le <lesser> ]
} [ mask <mask> ] } | { no ip prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } [ { permit | deny } <prefix>
{ [ eq <equal> ] | [ ge <greater> ] [ le <lesser> ] } [ mask <mask> ] ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
prefix-list	Build a prefix list
<i>ipv4-pfl-name</i>	Name of prefix-list
<i>ipv4-pfl-name</i>	Name of prefix-list
<i>ipv4-pfl-name</i>	Known prefix-list name
permit	Specify routes to forward
deny	Specify routes to reject
<i>prefix</i>	IP prefix network/length, e.g., 35.0.0.0/8
eq	(Optional) Exact prefix length to be matched
<i>equal</i>	(Optional) Exact prefix length
ge	(Optional) Minimum prefix length to be matched
<i>greater</i>	(Optional) Minimum prefix length
le	(Optional) Maximum prefix length to be matched
<i>lesser</i>	(Optional) Maximum prefix length
mask	(Optional) Explicit match mask
<i>mask</i>	(Optional) Mask to use with the prefix

Command Mode

- /exec/configure

ip prefix-list seq permit

```
{ ip prefix-list <ipv4-pfl-name> seq <seq> { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] | [ le <lesser> ] } [ mask <mask> ] } | { no ip prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } seq <seq> [ { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] | [ le <lesser> ] } [ mask <mask> ] ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
prefix-list	Build a prefix list
<i>ipv4-pfl-name</i>	Name of prefix-list
<i>ipv4-pfl-name</i>	Name of prefix-list
<i>ipv4-pfl-name</i>	Known prefix-list name
seq	Sequence number of an entry
<i>seq</i>	Sequence number
permit	Specify routes to forward
deny	Specify routes to reject
<i>prefix</i>	IP prefix network/length, e.g., 35.0.0.0/8
eq	(Optional) Exact prefix length to be matched
<i>equal</i>	(Optional) Exact prefix length
ge	(Optional) Minimum prefix length to be matched
<i>greater</i>	(Optional) Minimum prefix length
le	(Optional) Maximum prefix length to be matched
<i>lesser</i>	(Optional) Maximum prefix length
mask	(Optional) Explicit match mask
<i>mask</i>	(Optional) Mask to use with the prefix

Command Mode

- /exec/configure

ip proxy-arp

{ ip proxy-arp | no ip proxy-arp }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
proxy-arp	Configure proxy ARP

Command Mode

- /exec/configure/if-igp /exec/configure/if-vlan-common

ip radius source-interface

[no] ip radius source-interface | ip radius source-interface <interface>

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
radius	Radius server
source-interface	Source interface to be used to reach radius server
<i>interface</i>	Interface Description

Command Mode

- /exec/configure

ip redirects

ip redirects | no ip redirects

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
redirects	Send ICMP Redirect messages

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config

ip repopulate internal context array

ip repopulate internal context array

Syntax Description

ip	Display IP information
repopulate	Repopulate internal data structure
internal	Commands for internal use
context	repopulate context related info
array	arrays which stores context ptrs

Command Mode

- /exec

ip rip authentication key-chain

```
{ ip rip authentication key-chain <keychain> | no ip rip authentication key-chain [ <keychain> ] }
```

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
rip	RIP configuration commands
authentication	Authentication control
key-chain	Set authentication key-chain
<i>keychain</i>	Name of key-chain

Command Mode

- /exec/configure/if-igp

ip rip authentication mode text

{ ip rip authentication mode { text | md5 } | no ip rip authentication mode [{ text | md5 }] }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
rip	RIP configuration commands
authentication	RIP authentication control
mode	Set authentication mode
text	Clear text authentication
md5	Keyed message digest

Command Mode

- /exec/configure/if-igp

ip rip metric

{ ipv6 | ip } rip { metric-offset | offset-list } <metric> | no { ipv6 | ip } rip { metric-offset | offset-list } [<metric>]

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
ip	Configure IP features
rip	RIP configuration commands
metric-offset	RIP metric for interface
offset-list	RIP metric for interface
<i>metric</i>	RIP metric value

Command Mode

- /exec/configure/if-igp

ip rip passive-interface

[no] { ipv6 | ip } rip passive-interface

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
ip	Configure IP features
rip	RIP configuration commands
passive-interface	RIP passive interface

Command Mode

- /exec/configure/if-igp

ip rip poison-reverse

[no] { ipv6 | ip } rip poison-reverse

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
ip	Configure IP features
rip	RIP configuration commands
poison-reverse	RIP poison reverse (default split-horizon)

Command Mode

- /exec/configure/if-igp

ip rip route-filter route in

[no] { ipv6 | ip } rip route-filter { route-map <map> | prefix-list <list> } { in | out }

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
ip	Configure IP features
rip	RIP configuration commands
route-filter	RIP route filtering
route-map	route-map policy to constrain route filtering
prefix-list	prefix-list policy to constrain route filtering
<i>map</i>	Route-map name
<i>list</i>	prefix-list name
in	inbound
out	outbound

Command Mode

- /exec/configure/if-igp

ip rip summary-address

[no] ip rip summary-address <ip-prefix> | no ipv6 rip summary-address <ipv6-prefix> | ipv6 rip summary-address <ipv6-prefix>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
rip	RIP configuration commands
summary-address	RIP summarization address
<i>ip-prefix</i>	Exact prefix

Command Mode

- /exec/configure/if-igp

ip route

```
[no] ip route { <ip-addr> <ip-mask> | <ip-prefix> } { <interface> | { { <pin-interface> <next-hop> } | { <next-hop> | <nh-prefix> } | { <vlan-interface> } } [ vrf { <vrf-name> | <vrf-known-name> } ] [ track <object-num> ] [ name <rt-name> ] [ tag <tag-value> | <pref> ] +
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
route	Route information
<i>ip-addr</i>	IP prefix in format i.i.i.i
<i>ip-mask</i>	IP network mask in format m.m.m.m
<i>ip-prefix</i>	IP prefix and network mask length in format x.x.x.x/m
<i>pin-interface</i>	Pin interface
<i>next-hop</i>	IP next-hop address in format i.i.i.i
<i>nh-prefix</i>	IP next-hop prefix in format i.i.i.i/m
<i>interface</i>	Interface for interface static routes
<i>vlan-interface</i>	vlan interface
track	(Optional) Specify the Object to be Tracked
<i>object-num</i>	(Optional) Track Object Number
name	(Optional) Specify name of the next hop
<i>rt-name</i>	(Optional) Name of next hop
<i>pref</i>	(Optional) Route preference
tag	(Optional) Supply tag value with static route
<i>tag-value</i>	(Optional) 32-bit value for tag
vrf	(Optional) VRF for next-hop if different from this vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec/configure /exec/configure/config-mgmt /exec/configure/vrf

ip route static bfd

[no] ip route static bfd <pin-interface> <next-hop>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
route	Route information
static	Static route based configuration
bfd	Enable bfd detection on static route
<i>pin-interface</i>	Interface on which bfd has to be enabled
<i>next-hop</i>	IP next-hop address in format i.i.i.i

Command Mode

- /exec/configure /exec/configure/config-mgmt /exec/configure/vrf

ip router eigrp

[no] { ip | ipv6 } router eigrp <eigrp-ptag>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
router	Enable a routing process
eigrp	Configure an EIGRP routing process on interface
<i>eigrp-ptag</i>	Process tag

Command Mode

- /exec/configure/if-igp

ip router isis

[no] ip router isis <tag>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
router	Enable a routing process
isis	Intermediate System to Intermediate System (IS-IS)
<i>tag</i>	Process tag

Command Mode

- /exec/configure/if-igp

ip router ospf area

[no] ip router ospf <tag> area { <area-id-ip> | <area-id-int> } [secondaries none]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
router	Enable a routing process
ospf	OSPF configuration commands
<i>tag</i>	Process tag
area	Area associated with interface
<i>area-id-ip</i>	OSPF area ID in IP address format
<i>area-id-int</i>	OSPF area ID as a decimal format
secondaries	(Optional) Do not include secondary IP addresses
none	(Optional) Do not include secondary IP addresses

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip router ospf multi-area

[no] ip router ospf [<tag>] multi-area <area-id-ip>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
router	Enable a routing process
ospf	OSPF configuration commands
<i>tag</i>	(Optional) Process tag
multi-area	Multi area associated with interface
<i>area-id-ip</i>	Area Id as an integer or ip address

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ip router rip

[no] { ipv6 | ip } router rip <tag>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
router	Enable a routing process
rip	Routing Information Protocol (RIP)
<i>tag</i>	Process tag

Command Mode

- /exec/configure/if-igp

ip routing download-on-convergence

[no] ip routing download-on-convergence

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	IP events
routing	Enable debugging for routing events
download-on-convergence	Download Routes/RNHs after Table Convergence

Command Mode

- /exec/configure

ip routing event-history

```
[no] ip routing event-history { add-route | cli | delete-route | detail | errors | general | ha | loop-detection |
modify-route | notifications | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary } size {
<size_in_text> | <size_in_bytes> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
routing	Routing information
event-history	Configure routing event log
add-route	Add route
cli	CLI
delete-route	Delete route
detail	Detail
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
size	Size of buffer
<i>size_in_text</i>	Buffer size
<i>size_in_bytes</i>	Enter an integer value for the event history buffer

Command Mode

- /exec/configure

ip secondary

ip { <ipaddress> | <ipprefix> } secondary | no ip { <ipaddress> | <ipprefix> } secondary

Syntax Description

no	Negate a command or set its defaults
ip	Enable HSRP IPv4 and set the virtual IP address
<i>ipaddress</i>	Virtual IP address
<i>ipprefix</i>	Virtual IP address and mask length
secondary	Make this IP address a secondary virtual IP address

Command Mode

- /exec/configure/if-eth-any/hsrp_ipv4

ip sla

[no] ip sla <index>

Syntax Description

no	(Optional)
ip	
sla	Service Level Agreement (SLA)
<i>index</i>	Entry Number

Command Mode

- /exec/configure

ip sla group schedule

```
{ no ip sla group schedule <group-id> | ip sla group schedule <group-id> { { add <operation-ids> | delete
<operation-ids> } | { <operation-ids> schedule-period <schedule-period-seconds> { [ ageout <ageout-seconds>
] [ frequency { <frequency-seconds> | range <random-frequency-range> } ] [ life { forever | <life-seconds>
} ] [ start-time { <hhmm> [ { January | February | March | April | May | June | July | August | September |
October | November | December } <day> | <day> [ January | February | March | April | May | June | July |
August | September | October | November | December ] ] | pending | now | after <hhmm> } ] } + } | reschedule
} }
```

Syntax Description

no	
<i>add</i>	delete
<i>start-time</i>	(Optional) January
<i>October</i>	(Optional) November
<i>operation-ids</i>	<schedule-period-seconds>
<i>random-frequency-range</i>	(Optional) <ageout-seconds>
ip	
sla	Service Level Agreement (SLA)
group	Group Configuration or Group Scheduling
schedule	Group scheduling
<i>group-id</i>	Group schedule entry number
delete	Delete probes from existing group
reschedule	Reschedule the group using previous config
<i>operation-ids</i>	Multiple probe ID's to be group scheduled
schedule-period	Group schedule period range
<i>schedule-period-seconds</i>	seconds
frequency	(Optional) Group operation frequency
range	(Optional) Group operation frequency-range for random scheduling
<i>frequency-seconds</i>	(Optional) Specify frequency in seconds
ageout	(Optional) How long to keep this Entry when inactive
<i>ageout-seconds</i>	(Optional) Ageout Seconds
life	(Optional) Length of time to execute in seconds

<i>life-seconds</i>	(Optional) Life seconds (default 3600)
forever	(Optional) continue running forever
after	(Optional) Start after a certain amount of time from now
<i>hhmm</i>	(Optional) Start time (hh:mm)
January	(Optional) Month of year
February	(Optional) Month of year
March	(Optional) Month of year
April	(Optional) Month of year
May	(Optional) Month of year
June	(Optional) Month of year
July	(Optional) Month of year
August	(Optional) Month of year
September	(Optional) Month of year
October	(Optional) Month of year
November	(Optional) Month of year
December	(Optional) Month of year
<i>day</i>	(Optional) Day of month
now	(Optional) Start now
pending	(Optional) Start pending

Command Mode

- /exec/configure

ip sla logging traps

[no] ip sla logging traps

Syntax Description

no	(Optional)
ip	
sla	Service Level Agreement (SLA)
logging	Enable Syslog
traps	Enable syslog traps

Command Mode

- /exec/configure

ip sla reaction-configuration react

```
[no] ip sla reaction-configuration <react-cfg-entry-num> react <monitored-element> | ip sla
reaction-configuration <react-cfg-entry-num> react <monitored-element> { [ action-type <action> ] [
threshold-value <rising-value> <falling-value> ] [ threshold-type { <neverImmed> | <consecutive> [
<consecutive-occurrences> ] | <xOfy> [ <x-value> <y-value> ] | <average> [ <n-attempts> ] } } } +
```

Syntax Description

no	
<i>action-type</i>	(Optional) threshold-value
<i>falling-value</i>	(Optional) <neverImmed>
<i>consecutive-occurrences</i>	(Optional) <x-value>
ip	
sla	Service Level Agreement (SLA)
reaction-configuration	IP SLAs Reaction-Configuration
<i>react-cfg-entry-num</i>	Entry Number
react	Reaction variable to be configured
<i>monitored-element</i>	monitored element
<i>action</i>	(Optional)
threshold-value	(Optional) Threshold Value
<i>rising-value</i>	(Optional) Upper limit for Threshold
threshold-type	(Optional) Threshold Type
<i>neverImmed</i>	(Optional)
<i>consecutive</i>	(Optional)
<i>xOfy</i>	(Optional)
<i>average</i>	(Optional)
<i>x-value</i>	(Optional) X value
<i>y-value</i>	(Optional) Y value
<i>n-attempts</i>	(Optional) N Value

Command Mode

- /exec/configure

ip sla reaction-trigger

[no] ip sla reaction-trigger <entry-num> <target-entry>

Syntax Description

no	(Optional)
ip	
sla	Service Level Agreement (SLA)
reaction-trigger	IP SLAs Trigger Assignment
<i>entry-num</i>	Entry Number
<i>target-entry</i>	Target entry Number

Command Mode

- /exec/configure

ip sla reset

ip sla reset

Syntax Description

ip	
sla	Service Level Agreement (SLA)
reset	IP SLAs Reset

Command Mode

- /exec/configure

ip sla responder

```
[no] ip sla responder [ { tcp-connect [ ipaddress<tcp-ip> ] port <tcp-port> } | { udp-echo [ ipaddress <udp-ip> ] port <udp-port> } ]
```

Syntax Description

<i>tcp-connect</i>	(Optional) ipaddress
no	(Optional)
ip	
sla	
responder	Enable IP SLAs Responder
ipaddress	(Optional) Permanent address
port	(Optional) Permanent port
<i>tcp-port</i>	(Optional) Port Number
udp-echo	(Optional) Setup udp-echo responder
<i>udp-ip</i>	(Optional) IP Address or IP HostName
<i>udp-port</i>	(Optional) Port Number

Command Mode

- /exec/configure

ip sla restart

ip sla restart <index>

Syntax Description

ip	
sla	Service Level Agreement (SLA)
restart	Restart An Active Entry
<i>index</i>	Entry Number

Command Mode

- /exec/configure

ip sla schedule

```
{ no ip sla schedule <index> | ip sla schedule <index> { [ life { <life-seconds> | forever } ] [ start-time { <hhmm> [ { January | February | March | April | May | June | July | August | September | October | November | December } <day> | <day> [ January | February | March | April | May | June | July | August | September | October | November | December ] ] | pending | now | { after <hhmm> } } ] [ ageout <ageout-seconds> ] [ recurring ] } + }
```

Syntax Description

no	
<i>life</i>	(Optional) forever
<i>August</i>	(Optional) September
<i>recurring</i>	(Optional) <life-seconds>
ip	
sla	Service Level Agreement (SLA)
schedule	Entry Scheduling
<i>index</i>	Entry Number
<i>life-seconds</i>	(Optional) Life seconds (default 3600)
forever	(Optional) continue running forever
start-time	(Optional) When to start this entry
<i>hhmm</i>	(Optional) Start time (hh:mm)
January	(Optional) Month of year
February	(Optional) Month of year
March	(Optional) Month of year
April	(Optional) Month of year
May	(Optional) Month of year
June	(Optional) Month of year
July	(Optional) Month of year
August	(Optional) Month of year
September	(Optional) Month of year
October	(Optional) Month of year
November	(Optional) Month of year

December	(Optional) Month of year
<i>day</i>	(Optional) Day of month
now	(Optional) Start now
after	(Optional) Start after a certain amount of time from now
pending	(Optional) Start pending
ageout	(Optional) How long to keep this Entry when inactive
<i>ageout-seconds</i>	(Optional) Ageout Seconds

Command Mode

- /exec/configure

ip source-route

[no] ip source-route

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
source-route	IP source routing option

Command Mode

- /exec/configure

ip source binding vlan interface

[no] ip source binding <ipaddr1> <macaddr> vlan <vlanid> interface <interface1>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
source	IP source
binding	Static binding
<i>ipaddr1</i>	IP address
<i>macaddr</i>	MAC address
vlan	VLAN
<i>vlanid</i>	VLAN id
interface	interface
<i>interface1</i>	interface

Command Mode

- /exec/configure

ip source icmp-errors

[no] ip source <interface> icmp-errors

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
source	Configure source-address for applications
<i>interface</i>	Interface to pick source-address from
icmp-errors	ICMP unreachable/TTL-exceeded/param-prob messages

Command Mode

- /exec/configure /exec/configure/vrf

ip split-horizon eigrp

[no] { ip | ipv6 } split-horizon eigrp <eigrp-ptag>

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
split-horizon	Configures IP-EIGRP split-horizon on interface
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag

Command Mode

- /exec/configure/if-igp

ip ssh source-interface

[no] ip ssh source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ssh	Configure ssh
source-interface	Configure source interface feature for domain-lookup
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec/configure

ip sticky-arp

{ ip sticky-arp [ignore] | no ip sticky-arp ignore }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
sticky-arp	Configure sticky ARP
ignore	(Optional) Ignore previously configured sticky ARP

Command Mode

- /exec/configure/if-igp /exec/configure/if-vlan-common

ip summary-address eigrp ipv6 summary-address eigrp

```
{ [ no ] ip summary-address eigrp <eigrp-ptag> { { <address> <mask> } | { <prefix> } } [ <distance> ] [
leak-map <leak-map> ] | [ no ] ipv6 summary-address eigrp <eigrp-ptag> <ipv6-prefix> [ <distance> ] [
leak-map <leak-map> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
ipv6	Configure IPv6 features
summary-address	Configures IP-EIGRP summary address on interface
eigrp	EIGRP interface configuration commands
<i>eigrp-ptag</i>	Process tag
<i>address</i>	IP address
<i>mask</i>	IP network mask
<i>prefix</i>	IP prefix in slash format
<i>distance</i>	(Optional) Administrative distance
leak-map	(Optional) Allow dynamic prefixes based on the leak-map
<i>leak-map</i>	(Optional) leak-map name
<i>eigrp-ptag</i>	

Command Mode

- /exec/configure/if-igp

ip tacacs source-interface

[no] ip tacacs source-interface | ip tacacs source-interface <interface>

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
tacacs	Tacacs server
source-interface	Source interface to be used to reach tacacs server
<i>interface</i>	Interface Description

Command Mode

- /exec/configure

ip tcp path-mtu-discovery

{ { ip tcp path-mtu-discovery } | { no ip tcp path-mtu-discovery } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
tcp	Global TCP parameters
path-mtu-discovery	Enable path-MTU discovery on TCP

Command Mode

- /exec/configure /exec/configure/config-mgmt

ip tcp synwait-time

{ { no ip tcp synwait-time } | { ip tcp synwait-time <time> } }

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
tcp	Global TCP parameters
synwait-time	Set time to wait on new TCP connections
<i>time</i>	Wait time

Command Mode

- /exec/configure /exec/configure/config-mgmt

ip telnet source-interface

[no] ip telnet source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
telnet	Configure telnet
source-interface	Configure source interface feature for domain-lookup
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec/configure

ip tftp source-interface

[no] ip tftp source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
tftp	Configure TFTP client
source-interface	Configure source interface feature for TFTP client
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec/configure

ip traceroute source-interface

[no] ip traceroute source-interface <ifnum> [vrf { <vrf-name> | <vrf-known-name> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
traceroute	Configure traceroute client
source-interface	Configure source interface feature for traceroute
<i>ifnum</i>	Source interface
vrf	(Optional) Configure VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec/configure

ip udp relay addrgroup

{ ip udp relay addrgroup <obj-grp-name> | no ip udp relay addrgroup }

Syntax Description

ip	Configure IP features
no	Negate a command or set its defaults
udp	Enable/disable UDP forwarding
relay	UDP relay agent parameters
addrgroup	UDP Relay IP Address group
<i>obj-grp-name</i>	Object grp Name

Command Mode

- /exec/configure/if-igp

ip udp relay subnet-broadcast

[no] ip udp relay subnet-broadcast

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
udp	Enable/disable UDP forwarding
relay	UDP relay agent parameters
subnet-broadcast	Enable/disable UDP forwarding for subnet-broadcast

Command Mode

- /exec/configure/if-igp

ip unnumbered

ip unnumbered <interface> | no ip unnumbered [<interface>]

Syntax Description

no	Negate a command or set its defaults
ip	Configure IP features
unnumbered	Configure interface as unnumbered
<i>interface</i>	Interface with IP address

Command Mode

- /exec/configure/ppm-ethernet-switch /exec/configure/if-p2p /exec/configure/if-gre-tunnel /exec/configure/if-any-tunnel /exec/configure/if-port-channel-sub /exec/configure/if-vlan

ip unreachable

[no] ip unreachable

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
unreachables	Enable sending ICMP unreachable (other than port-unreachable)

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config

ip verify source dhcp-snooping-vlan

[no] ip verify source dhcp-snooping-vlan

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
verify	Configure Unicast Reverse Path Forwarding or IP Source Guard
source	IP Source Guard related commands
dhcp-snooping-vlan	Vlans on which snooping is enabled

Command Mode

- /exec/configure/if-switching

ip verify unicast source reachable-via rx

```
[no] ip verify unicast source reachable-via { rx | any [ allow-default ] } [ policy { <policy-name> | <acl_pol_name> } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ip	Configure IP features
verify	Configure Unicast Reverse Path Forwarding or IP Source Guard
unicast	Unicast Reverse Path Forwarding
source	Validation of source address
reachable-via	Specify reachability check to apply to the source address
rx	Source is reachable via interface on which packet was received
any	Source is reachable via any interface
allow-default	(Optional) Loose Default Route Unicast Reverse Path Forwarding
policy	(Optional) Unicast Reverse Path Forwarding fail policy
<i>policy-name</i>	(Optional) An uRPF fail policy name
<i>acl_pol_name</i>	(Optional) An existing access-rules policy

Command Mode

- /exec/configure/if-igp

ipv6

```
{ [ <seqno> ] | no } <permitdeny> { ipv6 | <proto> | <ipv6_other_proto> } { <src_any> | { <src_addr>
<src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } {
<dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp
<dst_addrgrp_name> } } { [ { dscp { <dscp_num> | <dscp_str> } } ] [ { flow-label <flow_num> } ] [ fragments
] [ log ] [ time-range <time_range_name> ] [ packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } ] [ { udf { <udf_name> <udf_val> <udf_mask> } + } ] ] + [ vlan <vlanid> | ingress_intf { <intfid>
| <intfname> } | vlan_priority <vlanpriorityid> ] + [ capture session <session-id> ] { [ <actionv6> <actionidv6>
] }
```

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
ipv6	Any IPV6 protocol
<i>proto</i>	A protocol number
<i>ipv6_other_proto</i>	ipv6_other_proto
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
udf	(Optional) User defined field match
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF 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>src_any</i>	Any
src_key_host	A single source host
src_key_addrgrp	Source address group
<i>src_addrgrp_name</i>	Address group name

<i>dst_any</i>	Any
<i>dst_key_host</i>	A single destination host
<i>dst_key_addrgrp</i>	Destination address group
<i>dst_addrgrp_name</i>	Address group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>flow-label</i>	(Optional) Flow label
<i>flow_num</i>	(Optional) Flow label value
<i>fragments</i>	(Optional) Check non-initial fragments
<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
<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
<i>actionv6</i>	(Optional) ActionV6
<i>actionidv6</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

Command Mode

- /exec/configure/ipv6acl

ipv6 access-class

[no] ipv6 access-class <name> <inout>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
access-class	Specify IPv6 access control for packets
<i>name</i>	List name
<i>inout</i>	Traffic direction

Command Mode

- /exec/configure/line

ipv6 access-list

[no] ipv6 access-list <name> [client <clienttype> <clientID>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
access-list	Configure access list
<i>name</i>	List name
client	(Optional) set client type
<i>clienttype</i>	(Optional) CLI/ONEP
<i>clientID</i>	(Optional) client appID

Command Mode

- /exec/configure

ipv6 access-list match-local-traffic

[no] ipv6 access-list match-local-traffic | ipv6 access-list match-local-traffic

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
access-list	Configure access list
match-local-traffic	Enable access-list matching for locally generated traffic

Command Mode

- /exec/configure

ipv6 address

```
[no] ipv6 address [ { autoconfig [ default ] | [ <ipv6-prefix> [ eui64 ] [ route-preference <pref> ] [ tag <tag> ] [ anycast ] } ] | ipv6 address { autoconfig [ default ] | [ <ipv6-prefix> [ eui64 ] [ route-preference <pref> ] [ tag <tag> ] [ anycast ] }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
address	Configure IPv6 address on interface
autoconfig	(Optional) Configure IPv6 Stateless address autoconfig
default	(Optional) For SLAAC, adds default route and the nh would be fetched from RA source address
eui64	(Optional) Configure Extended Unique Identifier for the low-order 64 bits
anycast	(Optional) Configure IPv6 anycast address on interface
route-preference	(Optional) U6RIB route preference for local/direct routes
<i>pref</i>	(Optional) Local/direct route preference
tag	(Optional) U6RIB route tag value for local/direct routes
<i>tag</i>	(Optional) Local/direct tag value

Command Mode

- /exec/configure/if-igmp /exec/configure/if-any-tunnel /exec/configure/if-vsan /exec/configure/if-mgmt-config

ipv6 address dhcp

[no] ipv6 address dhcp

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
address	Configure IPv6 address on interface
dhcp	Configure IPv6 address from a dhcp server

Command Mode

- /exec/configure/if-vlan /exec/configure/if-ethernet /exec/configure/if-mgmt-config /exec/configure/if-ethernet-all /exec/configure/if-sub

ipv6 address secondary

ipv6 address <ipv6-prefix> [eui64] secondary

Syntax Description

ipv6	Configure IPv6 features
address	Configure IPv6 address on interface
eui64	(Optional) Configure Extended Unique Identifier for the low-order 64 bits
secondary	Configures additional addresses on interface

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-gre-tunnel /exec/configure/if-6to4-tunnel /exec/configure/if-vsan

ipv6 address use-link-local-only

[no] ipv6 address use-link-local-only | ipv6 address use-link-local-only

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
address	Configure IPv6 address on interface
use-link-local-only	Enable IPv6 on interface using only a single link-local address

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-gre-tunnel /exec/configure/if-6to4-tunnel /exec/configure/if-vsan

ipv6 adjacency-stale-timer

```
{ { ipv6 [ icmp ] adjacency-stale-timer <stale-time> } | { no ipv6 [ icmp ] adjacency-stale-timer [ <stale-time> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) Configure icmp parameters
adjacency-stale-timer	When probing for an adjacency begins
<i>stale-time</i>	Seconds after adjacency uptime

Command Mode

- /exec/configure

ipv6 adjacency forcedownload

```
ipv6 adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <interface> { * | <ipv6-addr> } | * } forcedownload
```

Syntax Description

ipv6	Configure IPv6 features
adjacency	Configure Adjmgr
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	Display specific interface adjacencies only
*	for all adjacencies in this context
forcedownload	Create consistency in UFDM

Command Mode

- /exec/configure

ipv6 adjacency l2fm-reg

[no] ipv6 adjacency l2fm-reg { [vrf <vrf-known-name>] | <interface> }

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
adjacency	Configure Adjmgr
l2fm-reg	Register with l2fm
vrf	(Optional) vrf name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	Interface name

Command Mode

- /exec/configure

ipv6 adjacency peer-gmac

```
[no] ipv6 adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <interface> { * | <ipv6-addr> } | * }
peer-gmac
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
adjacency	Configure Adjmgr
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	Display specific interface adjacencies only
*	for all adjacencies in this context
peer-gmac	Set/clear the peer-gmac bit

Command Mode

- /exec/configure

ipv6 adjacency remote-adj

```
[no] ipv6 adjacency [ vrf { <vrf-name> | <vrf-known-name> } ] { <interface> { * | <ipv6-addr> } | * }
remote-adj
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
adjacency	Configure Adjmgr
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>interface</i>	Display specific interface adjacencies only
*	for all adjacencies in this context
remote-adj	Set/clear the remote-adj bit

Command Mode

- /exec/configure

ipv6 adjacency route distance

{ ipv6 adjacency route distance <pref> } | { no ipv6 adjacency route distance }

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
adjacency	Configure Adjmgr
route	route
distance	admin-distance
<i>pref</i>	preference

Command Mode

- /exec/configure

ipv6 amt gateway

[no] ipv6 amt gateway

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
amt	AMT global configuration commands
gateway	Configures IPv6 AMT gateway functionality

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 amt gateway send-discovery

[no] ipv6 amt gateway send-discovery

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
amt	AMT global configuration commands
gateway	Configures IPv6 AMT gateway functionality
send-discovery	Trigger a Discovery message to the Anycast address

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 amt relay

[no] ipv6 amt relay

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
amt	AMT global configuration commands
relay	Configures IPv6 AMT relay functionality

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 cache disable

[no] ipv6 cache disable

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
cache	Disable cache
disable	Disable cache

Command Mode

- /exec/configure

ipv6 dad

ipv6 dad { skip-results | force-dad | address <ipv6-prefix> } | no ipv6 dad skip-results

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
dad	Duplicate Address Detection
skip-results	Skip DAD results
force-dad	Does force DAD on given interface
address	Address to verify duplicate address in LAN

Command Mode

- /exec/configure/if-igp

ipv6 destination

{ ipv6 { destination | source } <addr> } | { no ipv6 { destination | source } }

Syntax Description

no	Negate a command or set its defaults
ipv6	specify flow ipv6 address
source	specify flow source ipv6 address
destination	specify flow destination ipv6 address

Command Mode

- /exec/configure/configngoamprofileflow

ipv6 dhcp-ldra

[no] ipv6 dhcp-ldra

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
dhcp-ldra	Enable/disable DHCPV6 LDRA

Command Mode

- /exec/configure/

ipv6 dhcp-ldra attach-policy

[no] ipv6 dhcp-ldra attach-policy { client-facing-trusted | client-facing-untrusted | client-facing-disable | server-facing }

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
dhcp-ldra	DHCPv6 LDRA
attach-policy	Apply a policy for DHCPV6 LDRA
client-facing-trusted	Client facing trusted port
client-facing-untrusted	Client facing untrusted port
client-facing-disable	Disable LDRA on port
server-facing	Server facing port

Command Mode

- /exec/configure/if-switching

ipv6 dhcp-ldra attach-policy vlan client

[no] ipv6 dhcp-ldra attach-policy vlan <vlan-id10> { client-facing-trusted | client-facing-untrusted }

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
dhcp-ldra	DHCPv6 LDRA
attach-policy	Apply a policy for DHCPV6 LDRA
vlan	DHCP LDRA vlan
<i>vlan-id10</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19
client-facing-trusted	Client facing trusted
client-facing-untrusted	Client facing untrusted

Command Mode

- /exec/configure

ipv6 dhcp guard

[no] ipv6 dhcp guard [attach-policy <policy_name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
<i>policy_name</i>	(Optional) policy name for feature DHCP Guard

Command Mode

- /exec/configure/if-switching

ipv6 dhcp guard

[no] ipv6 dhcp guard [attach-policy <policy_name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>policy_name</i>	(Optional) policy name for feature DHCP Guard

Command Mode

- /exec/configure/vlan-config

ipv6 dhcp guard policy

[no] ipv6 dhcp guard policy <policy_name>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
<i>policy_name</i>	Name of the dhcp guard policy

Command Mode

- /exec/configure

ipv6 dhcp relay

[no] ipv6 dhcp relay

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
dhcp	Configure DHCPv6 relay
relay	Configure DHCPv6 relay agent

Command Mode

- /exec/configure

ipv6 dhcp relay address

[no] ipv6 dhcp relay address [<ip-addr-val> [use-vrf <vrf-name>] [interface <interface-name>]] | no ipv6 dhcp relay address [<ip-addr-val> [interface <interface-name>] [use-vrf <vrf-name>]]

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
dhcp	Configure DHCPv6 relay
relay	Configure DHCPv6 relay agent
address	Configure DHCPv6 server relay address
use-vrf	(Optional) server address VRF membership
<i>vrf-name</i>	(Optional) VRF name
interface	(Optional) Destination interface for the relay address
<i>interface-name</i>	(Optional) Destination interface

Command Mode

- /exec/configure/if-igp

ipv6 dhcp relay address ipv6 dhcp relay address

```
ipv6 dhcp relay address <ip-addr-val> [ use-vrf <vrf-name> ] [ interface <interface-name> ] | ipv6 dhcp relay
address <ip-addr-val> [ interface <interface-name> ] [ use-vrf <vrf-name> ]
```

Syntax Description

<code>ipv6</code>	Configure IPv6 features
<code>dhcp</code>	Configure DHCPv6 relay
<code>relay</code>	Configure DHCPv6 relay agent
<code>address</code>	Configure DHCPv6 server relay address
<code>use-vrf</code>	(Optional) server address VRF membership
<code>vrf-name</code>	(Optional) VRF name
<code>interface</code>	(Optional) Destination interface for the relay address
<code>interface-name</code>	(Optional) Destination interface

Command Mode

- /exec/configure/if-igp /exec/configure/ppm-ethernet-switch /exec/configure/ppm-port-channel-switch

ipv6 dhcp relay option type cisco

[no] ipv6 dhcp relay option type cisco

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
dhcp	Configure DHCPv6 relay
relay	DHCPv6 relay agent parameters
option	Relay agent option
type	Relay agent option type
cisco	Use Cisco proprietary options

Command Mode

- /exec/configure

ipv6 dhcp relay option vpn

[no] ipv6 dhcp relay option vpn

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
dhcp	Configure DHCPv6 relay
relay	DHCPv6 relay agent parameters
option	Insert DHCPv6 relay information in Relay forward
vpn	Enable DHCPv6 relay support across VRFs

Command Mode

- /exec/configure

ipv6 dhcp relay source-interface

ipv6 dhcp relay source-interface <interface-name>

Syntax Description

ipv6	Configure IPv6 features
dhcp	Configure DHCPv6 relay
relay	Configure DHCPv6 relay agent
source-interface	Configure source interface for DHCPv6 relay
<i>interface-name</i>	Source interface

Command Mode

- /exec/configure /exec/configure/if-igp

ipv6 dhcp relay source-interface

[no] ipv6 dhcp relay source-interface

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
dhcp	Configure DHCPv6 relay
relay	Configure DHCPv6 relay agent
source-interface	Configure source interface for DHCPv6 relay

Command Mode

- /exec/configure /exec/configure/if-igp

ipv6 flood unknown ucast

[no] ipv6 flood unknown ucast

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
flood	Enable flood unknown ucast
unknown	Enable flood unknown ucast
ucast	Enable flood unknown ucast

Command Mode

- /exec/configure

ipv6 flow monitor input

[no] ipv6 flow monitor <monitorname> { input }

Syntax Description

ipv6	Configure IPv6 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic

Command Mode

- /exec/configure

ipv6 flow monitor input

[no] ipv6 flow monitor <monitorname> input

Syntax Description

ipv6	Configure IPv6 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic

Command Mode

- /exec/configure/if-routing /exec/configure/if-mgmt-ether /exec/configure/if-any-tunnel /exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p

ipv6 flow monitor input

[no] ipv6 flow monitor <monitorname> input

Syntax Description

ipv6	Configure IPv6 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic

Command Mode

- /exec/configure/vlan-config

ipv6 flow monitor input

[no] ipv6 flow monitor <monitorname> input

Syntax Description

ipv6	Configure IPv6 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic

Command Mode

- /exec/configure/if-vlan-common

ipv6 forward

ipv6 forward | no ipv6 forward

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
forward	Enable ipv6 forwarding on interface

Command Mode

- /exec/configure/if-vlan /exec/configure/if-vlan-range

ipv6 host

[no] ipv6 host <s0> <ipv6_0>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
host	Add an entry to the ip hostname table
s0	Name of Host

Command Mode

- /exec/configure

ipv6 icmp internal event-history size

```
[no] ipv6 icmp internal event-history { errors | icmpv6-internal | nd | mld { debugs | events } | ha | sync-event | ipv6-sync-event | vrf | cli } size { <size_in_text> | <size_in_Kbytes> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	Configure icmp parameters
internal	Commands for internal use
event-history	various event logs of ICMPV6
errors	error logs ICMPV6
icmpv6-internal	internal debug events of ICMPV6
nd	ICMPV6 ND debugs
mld	ICMPV6 MLD Information
events	ICMPV6 MLD non-periodic events
debugs	ICMPV6 MLD debug messages
ha	ICMPV6 debugs for HA events
sync-event	ICMPV6 debugs for CFS and MCECM related events
ipv6-sync-event	ICMPV6 debugs for CFS and MCECM related events for I3
vrf	ICMPV6 VRF related events
cli	ICMPV6 CLI related events
size	Configure the size of the event-hist buffer
<i>size_in_text</i>	Buffer size
<i>size_in_Kbytes</i>	Size of the file in kbytes

Command Mode

- /exec/configure

ipv6 icmp test rfc-4884

ipv6 icmp test rfc-4884 <pkt_size>

Syntax Description

ipv6	Configure IPv6 features
icmp	ICMPv6 commands
test	test command
rfc-4884	RFC
<i>pkt_size</i>	ipv6 pkt size

Command Mode

- /exec/configure/if-igp

ipv6 icmp vip vmac protocol group

[no] ipv6 icmp vip <ipv6-addr> vmac <mac-addr> protocol <prot> group <id>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	ICMPv6 commands
vip	Virtual IPv6 address
vmac	Virtual MAC address
<i>mac-addr</i>	Layer-2 MAC address
protocol	FHRP protocol
<i>prot</i>	HSRP VRRP GLBP
group	Group id
<i>id</i>	Group id

Command Mode

- /exec/configure/if-igp

ipv6 internal event-history size

```
[no] ipv6 internal event-history { errors | bfd | log | ipc | snmp | ha | sdb } size { <size_in_text> | <size_in_Kbytes> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
internal	Commands for internal use
event-history	various event logs of IPV6
errors	error logs of IPV6
log	syslog message of IPV6
ipc	ipc debug message of IPV6
snmp	snmp debug message of IPV6
ha	ha debug message of IPV6
sdb	sdb debug message of IPV6
bfd	bfd debug message for ipv6
size	Configure the size of the event-hist buffer
<i>size_in_text</i>	Buffer size
<i>size_in_Kbytes</i>	Size of the file in kbytes

Command Mode

- /exec/configure

ipv6 link-local

[no] ipv6 link-local [<ipv6-addr>] | ipv6 link-local <ipv6-addr>

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
link-local	Change format of link-local address

Command Mode

- /exec/configure/if-vlan /exec/configure/if-mgmt-config /exec/configure/if-gre-tunnel /exec/configure/if-6to4-tunnel /exec/configure/if-igp /exec/configure/if-vsan

ipv6 local policy route-map

ipv6 local policy route-map <route-map-name> | no ipv6 local policy route-map [<route-map-name> | <route-map-name>]

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
local	Configure local PBR feature
policy	Configure PBR feature
route-map	Route-map for PBR
<i>route-map-name</i>	Route-map name
<i>route-map-name</i>	(Optional) Route-map name
<i>route-map-name</i>	(Optional) Known route-map name

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 mld allow-v2-asm

[no] ipv6 [icmp] mld allow-v2-asm

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
mld	Multicast Listener Discovery commands
allow-v2-asm	Accept MLDv2 reports for non SSM groups

Command Mode

- /exec/configure/if-igp

ipv6 mld group-timeout

```
{ { no ipv6 [ icmp ] mld group-timeout [ <time> ] } | { ipv6 [ icmp ] mld group-timeout <time> } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
mld	Multicast Listener Discovery commands
group-timeout	Configures group membership timeout
<i>time</i>	(Optional) Time in seconds

Command Mode

- /exec/configure/if-igp

ipv6 mld immediate-leave

[no] ipv6 [icmp] mld immediate-leave

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
mld	Multicast Listener Discovery commands
immediate-leave	Enable/Disable immediate leave

Command Mode

- /exec/configure/if-igp

ipv6 mld join-group

```
[no] ipv6 [ icmp ] mld join-group { { <group> [ source <source> ] } | { route-map <route-map-name> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
mld	Multicast Listener Discovery commands
join-group	Configures local group membership for router
source	(Optional) Configures source address for MLDv2 (S,G) channel
route-map	Join group policy
<i>route-map-name</i>	route-map name

Command Mode

- /exec/configure/if-igp

ipv6 mld last-member-query-count

```
{ { no ipv6 [ icmp ] mld last-member-query-count [ <count> ] } | { ipv6 [ icmp ] mld last-member-query-count <count> } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
mld	Multicast Listener Discovery commands
last-member-query-count	Configures number of group-specific Queries sent
<i>count</i>	(Optional) Count value

Command Mode

- /exec/configure/if-igp

ipv6 mld last-member-query-response-time

```
{ { no ipv6 [ icmp ] mld last-member-query-response-time [ <interval> ] } | { ipv6 [ icmp ] mld
last-member-query-response-time <interval> } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
mld	Multicast Listener Discovery commands
last-member-query-response-time	Configures last member query response time
<i>interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure/if-igp

ipv6 mld querier

```
{ { no ipv6 [ icmp ] mld { querier-timeout | query-timeout } [ <time> ] } | { ipv6 [ icmp ] mld { querier-timeout | query-timeout } <time> } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
mld	Multicast Listener Discovery commands
query-timeout	Configures querier timeout for MLDv1
querier-timeout	Configures querier timeout for MLDv1
<i>time</i>	(Optional) Time in seconds

Command Mode

- /exec/configure/if-igp

ipv6 mld query-interval

```
{ { no ipv6 [ icmp ] mld query-interval [ <interval> ] } | { ipv6 [ icmp ] mld query-interval <interval> } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
mld	Multicast Listener Discovery commands
query-interval	Configures interval between Query transmission
<i>interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure/if-igp

ipv6 mld query-max-response-time

```
{ { no ipv6 [ icmp ] mld query-max-response-time [ <time> ] } | { ipv6 [ icmp ] mld query-max-response-time <time> } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
mld	Multicast Listener Discovery commands
query-max-response-time	Configures MRT for query messages
<i>time</i>	(Optional) Time in seconds

Command Mode

- /exec/configure/if-igp

ipv6 mld report-link-local-groups

[no] ipv6 [icmp] mld report-link-local-groups

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
mld	Multicast Listener Discovery commands
report-link-local-groups	Send Reports for groups in ff02::/16

Command Mode

- /exec/configure/if-igp

ipv6 mld report

```
{ { ipv6 [ icmp ] mld { report-policy | access-group } <route-map-name> } | { no ipv6 [ icmp ] mld {
report-policy | access-group } [ <route-map-name> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
mld	Multicast Listener Discovery commands
report-policy	ICMPv6 MLD Report Policy
access-group	ICMPv6 MLD access-group
<i>route-map-name</i>	Route-map name

Command Mode

- /exec/configure/if-igp

ipv6 mld robustness-variable

```
{ { no ipv6 [ icmp ] mld robustness-variable [ <value> ] } | { ipv6 [ icmp ] mld robustness-variable <value> } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
mld	Multicast Listener Discovery commands
robustness-variable	Configures RFC defined Robustness Variable
<i>value</i>	(Optional) Count value

Command Mode

- /exec/configure/if-igp

ipv6 mld ssm-translate

[no] ipv6 [icmp] mld ssm-translate <group> <source>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) Configure icmp parameters
mld	Multicast Listener Discovery commands
ssm-translate	Translate MLDv1 reports to (S,G) route entries

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 mld startup-query-count

```
{ { no ipv6 [ icmp ] mld startup-query-count [ <count> ] } | { ipv6 [ icmp ] mld startup-query-count <count> } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
mld	Multicast Listener Discovery commands
startup-query-count	Configures number of queries sent at startup
<i>count</i>	(Optional) Count value

Command Mode

- /exec/configure/if-igp

ipv6 mld startup-query-interval

```
{ { no ipv6 [ icmp ] mld startup-query-interval [ <interval> ] } | { ipv6 [ icmp ] mld startup-query-interval <interval> } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
mld	Multicast Listener Discovery commands
startup-query-interval	Configures query interval at startup
<i>interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure/if-igp

ipv6 mld state-limit

```
{ { ipv6 [ icmp ] mld state-limit <max-states> [ reserved <route-map-name> <max-reserved> ] } | { no ipv6 [ icmp ] mld state-limit [ <max-states> [ reserved <route-map-name> <max-reserved> ] ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
mld	Multicast Listener Discovery commands
state-limit	Configures State limit
<i>max-states</i>	Maximum states allowed
reserved	(Optional) Reserve the states using route-map
<i>route-map-name</i>	(Optional) Route-map name
<i>max-reserved</i>	(Optional) Maximum (*,G)/(S,G) entires allowed on the interface

Command Mode

- /exec/configure/if-igp

ipv6 mld static

```
[no] ipv6 [ icmp ] mld { static-group | static-oif } { { <group> [ source <source> ] } | { route-map
<route-map-name> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
mld	Multicast Listener Discovery commands
static-group	Configures static oif for a multicast forwarding entry
static-oif	Configures static oif for a multicast forwarding entry
source	(Optional) Configures source address for MLDv2 (S,G) Channel
route-map	Static group policy
<i>route-map-name</i>	route-map name

Command Mode

- /exec/configure/if-igp

ipv6 mld version

```
{ { no ipv6 mld version [ <version> ] } | { ipv6 mld version <version> } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
mld	Multicast Listener Discovery commands
version	Configures MLD version number for interface
<i>version</i>	(Optional) Version number value

Command Mode

- /exec/configure/if-igp

ipv6 mroute

```
[no] ipv6 mroute <ipv6-prefix> { { <next-hop> | <nh-prefix> } | <interface> } [ <pref> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
mroute	Configure multicast RPF static route
<i>interface</i>	Interface for interface static multicast routes
<i>pref</i>	(Optional) Route preference
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/configure /exec/configure/vrf

ipv6 nd cache limit

```
{ { ipv6 nd cache limit <max> } | { no ipv6 nd cache limit } } [ syslog <rate> ]
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
cache	ND cache parameters
limit	Limit size of ND adjacencies cache
<i>max</i>	Max no of ND adjacencies configured
syslog	(Optional) Syslog messages
<i>rate</i>	(Optional) Syslogs per second

Command Mode

- /exec/configure

ipv6 nd dad attempts

ipv6 nd dad attempts <attempt> | no ipv6 nd dad attempts

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
dad	Duplicate Address Detection
attempts	Set IPv6 Duplicate Address Detection Transmits
<i>attempt</i>	Number of attempts

Command Mode

- /exec/configure/if-igp

ipv6 nd dadns-discover

{ ipv6 nd dadns-discover <dadns_interval> } | { no ipv6 nd dadns-discover }

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
dadns-discover	Discover host from DADNS
<i>dadns_interval</i>	Interval in milliseconds

Command Mode

- /exec/configure/if-igp

ipv6 nd hop-limit

```
{ { ipv6 nd hop-limit <hop-limit> } | { no ipv6 nd hop-limit [ <hop-limit> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
hop-limit	Sent in RA messages, tells hosts what hop-limit to use when originating IPv6 packets
<i>hop-limit</i>	Hop limit in IPv6 header

Command Mode

- /exec/configure/if-igp

ipv6 nd limit-incomplete-adjacency

```
{ { ipv6 nd limit-incomplete-adjacency <count> } | { no ipv6 nd limit-incomplete-adjacency [ <count> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
limit-incomplete-adjacency	Number of incomplete adjacencies
<i>count</i>	Count

Command Mode

- /exec/configure

ipv6 nd limit_threshold_am_queue

```
{ { ipv6 nd limit_threshold_am_queue <count> } | { no ipv6 nd limit_threshold_am_queue [ <count> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
limit_threshold_am_queue	Threshold AM queue
<i>count</i>	Count

Command Mode

- /exec/configure

ipv6 nd mac-extract

[no] ipv6 nd mac-extract [exclude nud-phase]

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
mac-extract	Extract next hop MAC address embedded in IPV6 address
exclude	(Optional) Exclude
nud-phase	(Optional) during NUD phase

Command Mode

- /exec/configure/if-igp

ipv6 nd managed-config-flag

[no] ipv6 nd managed-config-flag

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
managed-config-flag	Sent in RA messages, tells hosts to use stateful address auto-configuration to obtain address information

Command Mode

- /exec/configure/if-igp

ipv6 nd mtu

```
{ { ipv6 nd mtu <mtu> } | { no ipv6 nd mtu [ <mtu> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
mtu	Sent in RA messages, tells hosts what MTU to use on this link
<i>mtu</i>	MTU in bytes

Command Mode

- /exec/configure/if-igp

ipv6 nd ns-interval

```
{ { ipv6 nd ns-interval <interval> [ <retry-count> ] } | { no ipv6 nd ns-interval [ <interval> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ns-interval	Retransmission interval between sending Neighbor-Solicitation messages
<i>interval</i>	Interval in milliseconds
<i>retry-count</i>	(Optional) NS Retry count

Command Mode

- /exec/configure/if-igp

ipv6 nd off-list timeout

{ ipv6 nd off-list timeout <time> } | { no ipv6 nd off-list timeout }

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	Display Neighbor Discovery interface information
off-list	off-list
timeout	Expire time
<i>time</i>	Expire time value in seconds

Command Mode

- /exec/configure

ipv6 nd other-config-flag

[no] ipv6 nd other-config-flag

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
other-config-flag	Sent in RA messages, tells hosts to use stateful auto-configuration to obtain non-address related information

Command Mode

- /exec/configure/if-igp

ipv6 nd prefix

```
{ { ipv6 nd prefix <prefix> [ { <val-life> | infinite } { <perf-life> | infinite } [ [ no-autoconfig ] [ no-onlink ] [ no-rtr-address ] [ off-link ] ] | no-advertise ] } | { no ipv6 nd prefix <prefix> } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
prefix	IPv6 Prefix to advertise in RA
<i>val-life</i>	(Optional) Valid Lifetime (secs)
infinite	(Optional) Infinite Valid Lifetime
no-advertise	(Optional) Do not advertise prefix
<i>perf-life</i>	(Optional) Preferred Lifetime (secs)
infinite	(Optional) Infinite Preferred Lifetime
no-autoconfig	(Optional) Do not use prefix for autoconfiguration
no-onlink	(Optional) Do not use prefix for onlink determination
no-rtr-address	(Optional) Do not send full router address in prefix advert
off-link	(Optional) Prefix is offlink

Command Mode

- /exec/configure/if-igp

ipv6 nd prefix default

```
{ { ipv6 nd prefix default [ { <val-life> | infinite } { <perf-life> | infinite } [ [ no-autoconfig ] [ no-onlink ] [ no-rtr-address ] [ off-link ] ] | no-advertise ] } | { no ipv6 nd prefix default } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
prefix	IPv6 Prefix to advertise in RA
default	Specify prefix default parameters
<i>val-life</i>	(Optional) Valid Lifetime (secs)
infinite	(Optional) Infinite Valid Lifetime
no-advertise	(Optional) Do not advertise prefix
<i>perf-life</i>	(Optional) Preferred Lifetime (secs)
infinite	(Optional) Infinite Preferred Lifetime
no-autoconfig	(Optional) Do not use prefix for autoconfiguration
no-onlink	(Optional) Do not use prefix for onlink determination
no-rtr-address	(Optional) Do not send full router address in prefix advert
off-link	(Optional) Prefix is offlink

Command Mode

- /exec/configure/if-igp

ipv6 nd process adjacency statistics

[no] ipv6 nd process adjacency statistics

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
process	Process Adjacency Statistics
adjacency	Adjacency
statistics	Statistics

Command Mode

- /exec/configure

ipv6 nd ra-interval

```
ipv6 nd ra-interval <interval> [ min <min-interval> ] | no ipv6 nd ra-interval [ <interval> ] [ min <min-interval> ]
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ra-interval	Interval between sending Router-Advertisement messages
<i>interval</i>	Interval in seconds
min	(Optional) Minimum interval between sending RA messages
<i>min-interval</i>	(Optional) Interval in seconds

Command Mode

- /exec/configure/if-igp

ipv6 nd ra-lifetime

```
{ { ipv6 nd ra-lifetime <lifetime> } | { no ipv6 nd ra-lifetime [ <lifetime> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ra-lifetime	Sent in RA messages, Router Lifetime of a default router, 0 means this router will not be the default router
<i>lifetime</i>	Lifetime in seconds

Command Mode

- /exec/configure/if-igp

ipv6 nd ra dns search-list sequence

[no] ipv6 nd ra dns search-list <dnssl> [{ <dnssl_life> | infinite }] sequence <seqno>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
search-list	DNS Search List
<i>dnssl</i>	Configure DNS Search List to advertise in RA
<i>dnssl_life</i>	(Optional) Configure IPv6 DNS Search list life time
infinite	(Optional) Configure IPv6 DNS Search list life time with infinite
sequence	Sequence of Search List
<i>seqno</i>	Sequence number

Command Mode

- /exec/configure/if-igp

ipv6 nd ra dns search-list suppress

[no] ipv6 nd ra dns search-list suppress

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
search-list	DNS Search List
suppress	Disable sending DNSSL in Router-Advertisement messages

Command Mode

- /exec/configure/if-igp

ipv6 nd ra dns server sequence

[no] ipv6 nd ra dns server <ipv6_addr> [{ <rdnss_life> | infinite }] sequence <seqno>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
server	Domain Name System Server
<i>rdnss_life</i>	(Optional) Configure IPv6 DNS Server life time
infinite	(Optional) Configure IPv6 DNS Server life time with infinite
sequence	Sequence of Server
<i>seqno</i>	Sequence number

Command Mode

- /exec/configure/if-igp

ipv6 nd ra dns server suppress

[no] ipv6 nd ra dns server suppress

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
dns	Domain Name System
server	Domain Name System Server
suppress	Disable sending RDNSS in Router-Advertisement messages

Command Mode

- /exec/configure/if-igp

ipv6 nd ra route suppress

[no] ipv6 nd ra route suppress

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
ra	Router Advertisement
route	Route Information Option in RFC 4191
suppress	Disable sending Route Information Options in RA messages

Command Mode

- /exec/configure/if-igp

ipv6 nd rguard

[no] ipv6 nd rguard [attach-policy <policy_name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>policy_name</i>	(Optional) policy name for ipv6 rguard

Command Mode

- /exec/configure/vlan-config

ipv6 nd raguard

[no] ipv6 nd raguard

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	Configure IPv6 ND
raguard	Configure RA guard

Command Mode

- /exec/configure/if-switching

ipv6 nd raguard attach-policy

[no] ipv6 nd raguard attach-policy <policy_name>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
<i>policy_name</i>	policy name for feature RA guard

Command Mode

- /exec/configure/if-switching

ipv6 nd rguard policy

[no] ipv6 nd rguard policy <policy_name>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
<i>policy_name</i>	Name of the rguard policy

Command Mode

- /exec/configure

ipv6 nd reachable-time

```
{ { ipv6 nd reachable-time <time> } | { no ipv6 nd reachable-time [ <time> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
reachable-time	Sent in RA messages, advertised time when a node considers a neighbor up after receiving a reachability confirmation
<i>time</i>	Time in milliseconds

Command Mode

- /exec/configure/if-igp

ipv6 nd retrans-timer

```
{ { ipv6 nd retrans-timer <time> } | { no ipv6 nd retrans-timer [ <time> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
retrans-timer	Sent in RA messages, advertised time between NS messages
<i>time</i>	Time in milliseconds

Command Mode

- /exec/configure/if-igp

ipv6 nd route route-preference High Low Medium infinite

```
{ { ipv6 nd route <prefix> route-preference { High | Low | Medium } { <lifetime> | infinite } [ {
verify-reachability } ] } | { no ipv6 nd route { <prefix> | all } route-preference } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
route	Route Information Option in RFC 4191
route-preference	Route preference value
High	High router preference
Low	Low router preference
Medium	Medium router preference
<i>lifetime</i>	Lifetime (secs)
infinite	Infinite lifetime of prefix
verify-reachability	(Optional) Verify if route is present in Route table
all	Remove all the Router Preference prefixes

Command Mode

- /exec/configure/if-igp

ipv6 nd router-preference High Low Medium

{ { ipv6 nd router-preference { High | Low | Medium } } | { no ipv6 nd router-preference } }

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
router-preference	Set default router preference value
High	High default router preference
Low	Low default router preference
Medium	Medium default router preference

Command Mode

- /exec/configure/if-igp

ipv6 nd solicit-na accept

```
{ ipv6 nd solicit-na { { accept [ no-probe | <interval> ] | [ no-accept ] } | { accept1 [ no-probe1 | <interval1> ] | [ no-accept1 ] } } } | { no ipv6 nd solicit-na }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
solicit-na	Solicited Neighbor Advertisemen
accept	Accept Solicit NA without incomplete entry
no-probe	(Optional) Do not probe, create a Reachable Entry
<i>interval</i>	(Optional) Probe Interval in Seconds
no-accept	(Optional) Do not accept Solicit NA without incomplete entry
accept1	Accept Solicit NA without incomplete entry
no-probe1	(Optional) Do not probe, create a Reachable Entry
<i>interval1</i>	(Optional) Probe Interval in Seconds
no-accept1	(Optional) Do not accept Solicit NA without incomplete entry

Command Mode

- /exec/configure

ipv6 nd suppress-ra

[no] ipv6 nd suppress-ra [mtu]

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	ICMPv6 Neighbor Discovery commands
suppress-ra	Disable sending Router-Advertisement messages
mtu	(Optional) Disable sending MTU in Router-Advertisement messages

Command Mode

- /exec/configure/if-igp

ipv6 nd synchronize

ipv6 nd synchronize [pull | push]

Syntax Description

ipv6	Configure IPv6 features
nd	Display Neighbor Discovery interface information
synchronize	CFS synchronize
pull	(Optional) Initiate CFS pull request
push	(Optional) Initiate CFS push message

Command Mode

- /exec

ipv6 nd synchronize

[no] ipv6 nd synchronize

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	Display Neighbor Discovery interface information
synchronize	CFS synchronize

Command Mode

- /exec/configure/vpc-domain

ipv6 neighbor

[no] ipv6 neighbor <ipv6-addr> [<mac-addr>] | ipv6 neighbor <ipv6-addr> <mac-addr>

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
neighbor	Configure IPv6 address to layer-2 address mapping
<i>mac-addr</i>	(Optional) Layer-2 MAC address

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config /exec/configure/if-vlan-common

ipv6 neighbor allow-static-neighbor-outside-subnet

[no] ipv6 neighbor allow-static-neighbor-outside-subnet

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
neighbor	Configure IPv6 address to layer-2 address mapping
allow-static-neighbor-outside-subnet	Allow static neighbor outside interface subnet

Command Mode

- /exec/configure

ipv6 neighbor binding

```
[no] ipv6 neighbor binding { { vlan <vlanid> { <ipv6addr1> } } interface <intf> [ <mac-address> [ tracking
{ default | disable | enable [ retry-interval { default | <interval> } ] ] ] [ reachable-lifetime { default | infinite
| <reach-secs> } ] ] }
```

Syntax Description

<code>no</code>	(Optional) Negate a command or set its defaults
<code>ipv6</code>	Configure IPv6 features
<i>vlanid</i>	Number of entries
<i>intf</i>	Interface
<i>mac-address</i>	(Optional) 48-bit hardware address / <cr> for any mac address
<i>interval</i>	(Optional) seconds
<i>reach-secs</i>	(Optional) seconds

Command Mode

- /exec/configure

ipv6 neighbor binding

```
[no] ipv6 neighbor binding { { reachable-lifetime { infinite | <reach-secs> } } | { stale-lifetime { infinite | <stale-secs> } } } | { down-lifetime { infinite | <down-secs> } } } +
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
<i>reach-secs</i>	Seconds
<i>stale-secs</i>	Seconds
<i>down-secs</i>	Seconds

Command Mode

- /exec/configure

ipv6 neighbor binding logging

[no] ipv6 neighbor binding logging

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features

Command Mode

- /exec/configure

ipv6 neighbor binding max-entries

```
{ ipv6 neighbor binding max-entries <box-lim> { [ vlan-limit <vlan-lim> ] | [ port-limit <port-lim> ] | [ mac-limit <mac-lim> ] } + | no ipv6 neighbor binding max-entries [ <box-lim> { [ vlan-limit <vlan-lim> ] | [ port-limit <port-lim> ] | [ mac-limit <mac-lim> ] } + ] }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
<i>box-lim</i>	Number of entries
<i>vlan-lim</i>	(Optional) Number of entries
<i>port-lim</i>	(Optional) Number of entries
<i>mac-lim</i>	(Optional) Number of entries

Command Mode

- /exec/configure

ipv6 neighbor tracking

[no] ipv6 neighbor tracking [retry-interval <interval>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
<i>interval</i>	(Optional) Seconds

Command Mode

- /exec/configure

ipv6 pim anycast-rp

[no] ipv6 pim anycast-rp <anycast-rp> <rp-addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
anycast-rp	Configure an RP in an Anycast-RP set (using PIM6)

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim auto-rp listen

{ ipv6 pim auto-rp { listen | forward } + } | { no ipv6 pim auto-rp [{ listen | forward } +] }

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
auto-rp	Enable listening or forwarding of Auto-RP messages
listen	Listen to Auto-RP messages
forward	Forward Auto-RP messages

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim auto-rp mapping-agent-policy

```
{ ipv6 pim auto-rp mapping-agent-policy { <route-map-name> | <rtr_pol_name> } | no ipv6 pim auto-rp
mapping-agent-policy [ <route-map-name> | <rtr_pol_name> ] }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
mapping-agent-policy	Specify policy for filtering Mapping Agent messages
<i>route-map-name</i>	A route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim auto-rp mapping-agent send-rp-discovery

```
{ { ipv6 pim { { auto-rp mapping-agent } | send-rp-discovery } <interface> [ scope <ttl> ] } | { no ipv6 pim
{ { auto-rp mapping-agent } | send-rp-discovery } [ <interface> ] [ scope <ttl> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
auto-rp	Auto-RP protocol RP-distribution configuration
pim	PIM6 global configuration commands
send-rp-discovery	Configures router to send Auto-RP Discovery messages
mapping-agent	Configures router as an Auto-RP RP-mapping agent
<i>interface</i>	IPv6 address of interface for Auto-RP Announce messages
scope	(Optional) Configure the scope of Auto-RP Discovery messages
<i>ttl</i>	(Optional) TTL value for scope

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim auto-rp rp-candidate-policy

```
{ ipv6 pim auto-rp rp-candidate-policy { <route-map-name> | <rtr_pol_name> } | no ipv6 pim auto-rp
rp-candidate-policy [ <route-map-name> | <rtr_pol_name> ] }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
rp-candidate-policy	Specify policy for filtering RP candidate messages
<i>route-map-name</i>	A route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim auto-rp rp-candidate send-rp-announce group

```
{ { ipv6 pim { { auto-rp rp-candidate } | send-rp-announce } <interface> { group-list <prefix> | route-map
<route-map-name> } { [ scope <ttl> ] [ interval <interval> ] [ bidir ] } + } | { no ipv6 pim { { auto-rp
rp-candidate } | send-rp-announce } [ <interface> ] [ group-list <prefix> ] [ route-map <route-map-name> ]
{ [ scope <ttl> ] [ interval <interval> ] [ bidir ] } } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
auto-rp	Auto-RP protocol RP-distribution configuration
send-rp-announce	Configures router to send Auto-RP Announce messages
rp-candidate	Configures router to be an Auto-RP candidate RP
<i>interface</i>	IPv6 address of interface for nnonce messages
group-list	Group range list
route-map	Group range policy for Auto-RP Candidate RP
<i>route-map-name</i>	route-map name
scope	(Optional) Configure the scope of Auto-RP Announce messages
<i>ttl</i>	(Optional) TTL value for scope
interval	(Optional) Auto-RP Announce message transmission interval
<i>interval</i>	(Optional) Interval in seconds
bidir	(Optional) Group range advertised in PIM6 bidirectional mode

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim bidir-rp-limit

[no] ipv6 pim bidir-rp-limit <limit>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
bidir-rp-limit	Configures maximum Bidir RPs for IPv6 PIM in this VRF
<i>limit</i>	Set limit for Bidir RPs permitted in IPv6 PIM

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim border

[no] ipv6 pim border

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 interface configuration commands
border	Configures interface to be a boundary of a PIM6 domain

Command Mode

- /exec/configure/if-igp

ipv6 pim bsr-candidate

```
{ { ipv6 pim [ bsr ] bsr-candidate <interface> [ hash-len <hash-len> ] [ priority <priority> ] } | { no ipv6 pim [ bsr ] bsr-candidate [ <interface> ] [ hash-len <hash-len> ] [ priority <priority> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
bsr	(Optional) Bootstrap protocol RP-distribution configuration
bsr-candidate	Configure router as a Bootstrap Router candidate
<i>interface</i>	Use IPV6 address of interface for Bootstrap messages
hash-len	(Optional) Hash mask length used in Bootstrap messages
<i>hash-len</i>	(Optional) Hash mask length value
priority	(Optional) BSR priority used in Bootstrap messages
<i>priority</i>	(Optional) BSR priority value

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim bsr bsr-policy

```
{ ipv6 pim bsr bsr-policy { <route-map-name> | <rtr_pol_name> } | no ipv6 pim bsr bsr-policy [
<route-map-name> | <rtr_pol_name> ] }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
bsr	Bootstrap protocol RP-distribution configuration
bsr-policy	Specify policy for filtering BSR messages
<i>route-map-name</i>	A route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim bsr listen

```
{ ipv6 pim bsr { listen | forward } + } | { no ipv6 pim bsr [ { listen | forward } + ] }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
bsr	Bootstrap protocol RP-distribution configuration
listen	Listen to Bootstrap/Candidate-RP messages
forward	Forward Bootstrap/Candidate-RP messages

Command Mode

- `/exec/configure /exec/configure/vrf`

ipv6 pim bsr rp-candidate-policy

```
{ ipv6 pim bsr rp-candidate-policy { <route-map-name> | <rtr_pol_name> } | no ipv6 pim bsr
rp-candidate-policy [ <route-map-name> | <rtr_pol_name> ] }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
bsr	Bootstrap protocol RP-distribution configuration
rp-candidate-policy	Specify policy for filtering RP candidate messages
<i>route-map-name</i>	A route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim dr-priority

```
{ { ipv6 pim dr-priority <priority> } | { no ipv6 pim dr-priority [ <priority> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 interface configuration commands
dr-priority	Configures priority for PIM6 DR election on interface
<i>priority</i>	Priority value

Command Mode

- /exec/configure/if-igp

ipv6 pim event-history assert-receive

```
[no] ipv6 pim event-history assert-receive { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
event-history	Configure event-history buffer
assert-receive	Assert-receive events for PIM6
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ipv6 pim event-history bidir

```
[no] ipv6 pim event-history bidir { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
event-history	Configure event-history buffer
bidir	Bidir events for PIM6
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ipv6 pim event-history hello

```
[no] ipv6 pim event-history hello { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
event-history	Configure event-history buffer
hello	Hello events for PIM6
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ipv6 pim event-history join-prune-summary

```
[no] ipv6 pim event-history join-prune-summary { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
event-history	Configure event-history buffer
join-prune-summary	Join/Prune-Summary events for PIM6
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ipv6 pim event-history join-prune

```
[no] ipv6 pim event-history join-prune { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
event-history	Configure event-history buffer
join-prune	Join/Prune events for PIM6
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ipv6 pim event-history null-register

[no] ipv6 pim event-history null-register { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
event-history	Configure event-history buffer
null-register	Reg events for PIM6
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ipv6 pim event-history packet

```
[no] ipv6 pim event-history packet { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
event-history	Configure event-history buffer
packet	Packet events for PIM6
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ipv6 pim event-history pim6-internal

```
[no] ipv6 pim event-history pim6-internal { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
event-history	Configure event-history buffer
pim6-internal	Internal events for PIM6
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ipv6 pim event-history rp

[no] ipv6 pim event-history rp { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
event-history	Configure event-history buffer
rp	RP events for PIM6
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ipv6 pim event-history vrf

```
[no] ipv6 pim event-history vrf { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
event-history	Configure event-history buffer
vrf	VRF events for PIM6
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

ipv6 pim flush-routes

[no] ipv6 pim flush-routes

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
flush-routes	Remove routes when restarting PIM6

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim hello-authentication ah-md5

```
{ ipv6 pim hello-authentication ah-md5 <auth-key> | no ipv6 pim hello-authentication ah-md5 [ <auth-key> ] }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 interface configuration commands
hello-authentication	Add AH header option to Hellos
ah-md5	Use MD5 HMAC
<i>auth-key</i>	MD5 authentication key

Command Mode

- /exec/configure/if-igp

ipv6 pim hello-interval

```
{ { ipv6 pim hello-interval { <interval-min> | <interval-max> } } | { no ipv6 pim hello-interval [ <interval-min> | <interval-max> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 interface configuration commands
hello-interval	Configures the Hello interval for interface
<i>interval-min</i>	Interval in milliseconds
<i>interval-max</i>	Interval in milliseconds

Command Mode

- /exec/configure/if-igp

ipv6 pim isolate

[no] ipv6 pim isolate

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
isolate	Isolate this router from IPV6 PIM perspective

Command Mode

- /exec/configure

ipv6 pim jp-delay

```
{ { ipv6 pim jp-delay <delay> } | { no ipv6 pim jp-delay [ <delay> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
jp-delay	Join-Prune message inter-packet delay
<i>delay</i>	Delay value in microseconds

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim jp-policy

```
{ ipv6 pim jp-policy { <route-map-name> | <rtr_pol_name> } [ in | out ] | no ipv6 pim jp-policy [ <route-map-name> | <rtr_pol_name> ] [ in | out ] }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 interface configuration commands
jp-policy	Specify policy for receiving Join-Prune messages
<i>route-map-name</i>	A route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy
in	(Optional) Inbound
out	(Optional) Outbound

Command Mode

- /exec/configure/if-igp

ipv6 pim log-neighbor-changes

[no] ipv6 pim log-neighbor-changes

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
log-neighbor-changes	Log up/down PIM6 neighbor transitions

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim neighbor-policy

```
{ ipv6 pim neighbor-policy <route-map-name> | no ipv6 pim neighbor-policy [ <route-map-name> ] }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 interface configuration commands
neighbor-policy	Configures a neighbor policy for filtering adjacencies
<i>route-map-name</i>	A route-map name

Command Mode

- /exec/configure/if-igp

ipv6 pim passive

[no] ipv6 pim passive

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 interface configuration commands
passive	Interface in passive mode. No send/recv

Command Mode

- /exec/configure/if-igp

ipv6 pim register-policy

```
{ ipv6 pim register-policy { <route-map-name> | <rtr_pol_name> } | no ipv6 pim register-policy [ <route-map-name> | <rtr_pol_name> ] }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
register-policy	Specify policy for receiving Register messages
<i>route-map-name</i>	A route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim register-rate-limit

```
{ { ipv6 pim register-rate-limit <rate> } | { no ipv6 pim register-rate-limit [ <rate> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
register-rate-limit	Rate limit for PIM data registers
<i>rate</i>	Packets per second

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim rp-address

```
{ { ipv6 pim rp-address <rp-address> [ group-list <prefix> | route-map <route-map-name> | prefix-list
<prefix-list-name> ] [ bidir ] [ override ] } | { no ipv6 pim rp-address <rp-address> [ group-list <prefix> |
route-map <route-map-name> | prefix-list <prefix-list-name> ] [ bidir ] [ override ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
rp-address	Configure static RP for group range
group-list	(Optional) Group range for static RP
route-map	(Optional) Route Map policy for static RP
<i>route-map-name</i>	(Optional) route-map name
prefix-list	(Optional) Prefix List policy for static RP
<i>prefix-list-name</i>	(Optional) prefix-list name
bidir	(Optional) Group range is treated in PIM6 bidirectional mode
override	(Optional) Overrides the dynamically learnt RPs

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim rp-candidate group

```
{ { ipv6 pim [ bsr ] rp-candidate <interface> { group-list <prefix> | route-map <route-map-name> } [ priority
<priority> ] [ interval <interval> ] [ bidir ] } | { no ipv6 pim [ bsr ] rp-candidate [ <interface> ] [ group-list
<prefix> ] [ route-map <route-map-name> ] [ priority <priority> ] [ interval <interval> ] [ bidir ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
bsr	(Optional) Bootstrap protocol RP-distribution configuration
rp-candidate	Configure router as a Rendezvous Point (RP) candidate
<i>interface</i>	IPv6 address of interface for Candidate-RP messages
group-list	Group range list
route-map	Group range policy for Candidate RP
<i>route-map-name</i>	route-map name
priority	(Optional) RP priority used in Candidate-RP messages
<i>priority</i>	(Optional) RP priority value
interval	(Optional) Bootstrap message transmission interval
<i>interval</i>	(Optional) Interval in seconds
bidir	(Optional) Group range advertised in PIM6 bidirectional mode

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim sparse-mode

ipv6 pim sparse-mode | no ipv6 pim [sparse-mode]

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 interface configuration commands
sparse-mode	Configures sparse-mode PIMv6 on interface

Command Mode

- /exec/configure/if-igp

ipv6 pim ssm

```
{ ipv6 pim ssm { { range { <group> + | none } } | { route-map <route-map-name> } } | no ipv6 pim ssm { { range { <group> + | none } } | { route-map <route-map-name> } } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
ssm	Source Specific Multicast (SSM) groups
range	Configure explicit group ranges
none	Remove all SSM group ranges
route-map	Group range policy for SSM range
<i>route-map-name</i>	A route-map name

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim state-limit

```
{ { ipv6 pim state-limit <max-states> [ reserved <route-map-name> <max-reserved> ] } | { no ipv6 pim state-limit [ <max-states> [ reserved <route-map-name> <max-reserved> ] ] } }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
state-limit	Configures State limit
<i>max-states</i>	Maximum (*,G)/(S,G) entries allowed in this VRF
reserved	(Optional) Configures Reserved limit
<i>route-map-name</i>	(Optional) Route-map name
<i>max-reserved</i>	(Optional) Maximum reserved (*,G)/(S,G) entries allowed in this VRF

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 pim use-shared-tree-only spt-threshold infinity group-list

```
{ ipv6 pim { use-shared-tree-only | spt-threshold infinity } group-list <route-map-name> } | { no ipv6 pim {
use-shared-tree-only | spt-threshold infinity } [ group-list <route-map-name> ] }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
pim	PIM6 global configuration commands
use-shared-tree-only	Use (*,G) only state, no source state is created
spt-threshold	Source-tree switching threshold
infinity	Never switch to source-tree
group-list	Specify group ranges through policy
<i>route-map-name</i>	Route-map name

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 policy route-map

```
ipv6 policy route-map <route-map-name> | no ipv6 policy route-map [ <route-map-name> | <route-map-name> ]
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
policy	Configure PBR feature
route-map	Route-map for PBR
<i>route-map-name</i>	Route-map name
<i>route-map-name</i>	(Optional) Route-map name
<i>route-map-name</i>	(Optional) Known route-map name

Command Mode

- /exec/configure/if-igp

ipv6 port traffic-filter

[no] ipv6 port traffic-filter <name> <inout>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
port	Port policy
traffic-filter	Specify access control for packets
<i>name</i>	List name
<i>inout</i>	Traffic direction

Command Mode

- /exec/configure/if-set-acl-l2

ipv6 prefix-list description

```
{ ipv6 prefix-list <ipv6-pfl-name> description <line> } | { no ipv6 prefix-list <ipv6-pfl-name> description }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
prefix-list	Build a prefix list
<i>ipv6-pfl-name</i>	Name of prefix-list
<i>ipv6-pfl-name</i>	Known prefix-list name
description	Description of the IPv6 prefix list
<i>line</i>	IPv6 prefix-list description string

Command Mode

- /exec/configure

ipv6 prefix-list permit

```
{ ipv6 prefix-list <ipv6-pfl-name> { permit | deny } <prefix> { [ eq <equal> ] [ ge <greater> ] [ le <lesser> ] } } | { no ipv6 prefix-list { <ipv6-pfl-name> | <ipv6-pfl-name> } [ { permit | deny } <prefix> { [ eq <equal> ] [ ge <greater> ] [ le <lesser> ] } ] }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
prefix-list	Build a prefix list
<i>ipv6-pfl-name</i>	Name of prefix-list
<i>ipv6-pfl-name</i>	Name of prefix-list
<i>ipv6-pfl-name</i>	Known prefix-list name
permit	Specify routes to forward
deny	Specify routes to reject
eq	(Optional) Exact prefix length to be matched
<i>equal</i>	(Optional) Exact prefix length
ge	(Optional) Minimum prefix length to be matched
<i>greater</i>	(Optional) Minimum prefix length
le	(Optional) Maximum prefix length to be matched
<i>lesser</i>	(Optional) Maximum prefix length

Command Mode

- /exec/configure

ipv6 prefix-list seq permit

```
{ ipv6 prefix-list <ipv6-pfl-name> seq <seq> { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] | [ le <lesser> ] } } | { no ipv6 prefix-list { <ipv6-pfl-name> | <ipv6-pfl-name> } seq <seq> [ { permit | deny } <prefix> { [ eq <equal> ] | [ ge <greater> ] | [ le <lesser> ] } ] }
```

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
prefix-list	Build a prefix list
<i>ipv6-pfl-name</i>	Name of prefix-list
<i>ipv6-pfl-name</i>	Name of prefix-list
<i>ipv6-pfl-name</i>	Known prefix-list name
seq	Sequence number of an entry
<i>seq</i>	Sequence number
permit	Specify routes to forward
deny	Specify routes to reject
eq	(Optional) Exact prefix length to be matched
<i>equal</i>	(Optional) Exact prefix length
ge	(Optional) Minimum prefix length to be matched
<i>greater</i>	(Optional) Minimum prefix length
le	(Optional) Maximum prefix length to be matched
<i>lesser</i>	(Optional) Maximum prefix length

Command Mode

- /exec/configure

ipv6 queue-packets-limit

[no] ipv6 queue-packets-limit [<limit>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
queue-packets-limit	Maximum number of queue packets for unresolved NDS
<i>limit</i>	(Optional) Unresolved ND queue packet limit

Command Mode

- /exec/configure

ipv6 queue-packets

[no] ipv6 queue-packets

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
queue-packets	Queue 1 packet when triggered NS is sent

Command Mode

- /exec/configure

ipv6 redirects

ipv6 [nd] redirects | no ipv6 [nd] redirects

Syntax Description

no	Negate a command or set its defaults
ipv6	Configure IPv6 features
nd	(Optional) ICMPv6 Neighbor Discovery commands
redirects	Enable sending ICMPv6 Redirect messages

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-config

ipv6 repopulate internal context array

ipv6 repopulate internal context array

Syntax Description

ipv6	Configure IPv6 features
repopulate	Repopulate internal data structure
internal	Commands for internal use
context	repopulate context related info
array	arrays which stores context ptrs

Command Mode

- /exec

ipv6 route

```
[no] ipv6 route <ipv6-prefix> { <interface> | { { <link-local> <interface-link-local> } | { <pin-interface>
<next-hop> } | { <next-hop> | <nh-prefix> } | { <vlan-interface> } } [ vrf { <vrf-name> | <vrf-known-name>
} ] ] [ track <object-num> ] [ name <rt-name> ] [ <pref> | tag <tag-value> ] +
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
route	Configure IPv6 unicast static route
<i>interface</i>	Interface for interface static routes
<i>vlan-interface</i>	vlan interface
name	(Optional) Specify name of the next hop
<i>rt-name</i>	(Optional) Name of next hop
<i>pin-interface</i>	Pin interface
<i>interface-link-local</i>	Interface for interface static routes
track	(Optional) Specify the Object to be Tracked
<i>object-num</i>	(Optional) Track Object Number
vrf	(Optional) VRF for next-hop if different from this vrf
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>pref</i>	(Optional) Route preference
tag	(Optional) Supply tag value with static route
<i>tag-value</i>	(Optional) 32-bit value for tag

Command Mode

- /exec/configure /exec/configure/vrf

ipv6 route static bfd

[no] ipv6 route static bfd <pin-interface> <next-hop>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IP features
route	Route information
static	Static route based configuration
bfd	Enable bfd detection on static route
<i>pin-interface</i>	Interface on which bfd has to be enabled

Command Mode

- /exec/configure /exec/configure/config-mgmt /exec/configure/vrf

ipv6 router isis

[no] ipv6 router isis <tag>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
router	Enable a routing process
isis	Intermediate System to Intermediate System (IS-IS)
<i>tag</i>	Process tag

Command Mode

- /exec/configure/if-igp

ipv6 router ospfv3 area

[no] ipv6 router ospfv3 <tag> area { <area-id-ip> | <area-id-int> } [secondaries none]

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
router	Enable a routing process
ospfv3	OSPFv3 configuration commands
<i>tag</i>	Process tag
area	Area associated with interface
<i>area-id-ip</i>	OSPFv3 area ID in IP address format
<i>area-id-int</i>	OSPFv3 area ID as a decimal format
secondaries	(Optional) Do not include secondary IPv6 addresses
none	(Optional) Do not include secondary IPv6 addresses

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ipv6 router ospfv3 multi-area

[no] ipv6 router ospfv3 [<tag>] multi-area <area-id-ip>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
router	Enable a routing process
ospfv3	OSPFv3 configuration commands
<i>tag</i>	(Optional) Process tag
multi-area	Multi-Area associated with interface
<i>area-id-ip</i>	Area Id as an integer or ip address

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ipv6 routing event-history size

[no] ipv6 routing event-history { am | cli | detail | errors | general | ha | lfe | recursive-next-hop | summary | ufdm | ufdm-detail | ufdm-summary } size { <size_in_text> | <size_in_bytes> }

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
routing	Routing information
event-history	Configure routing 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
size	Size of buffer
<i>size_in_text</i>	Buffer size
<i>size_in_bytes</i>	Enter an integer value for the event history buffer

Command Mode

- /exec/configure

ipv6 routing multicast software-replication

[no] ipv6 routing multicast software-replication

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
routing	Routing information
multicast	Configure multicast
software-replication	Enable software replication of PIM ASM leak packets

Command Mode

- /exec/configure

ipv6 snooping

[no] ipv6 snooping [attach-policy <policy_name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
<i>policy_name</i>	(Optional) policy name for ipv6 snooping

Command Mode

- /exec/configure/if-switching

ipv6 snooping

[no] ipv6 snooping [attach-policy <policy_name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>policy_name</i>	(Optional) policy name for ipv6 snooping

Command Mode

- /exec/configure/vlan-config

ipv6 snooping policy

[no] ipv6 snooping policy <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
<i>name</i>	Name of the snooping policy

Command Mode

- /exec/configure

ipv6 snooping unit-test bt-add vlan

{ ipv6 snooping unit-test bt-add vlan <vlanid>

Syntax Description

ipv6	Configure IPv6 features
<i>vlanid</i>	Number of entries

Command Mode

- /exec/configure

ipv6 source-route

[no] ipv6 source-route [rh0]

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
source-route	Process IPv6 Routing Header
rh0	(Optional) Process IPv6 Routing Header - Type 0 (RH0)

Command Mode

- /exec/configure

ipv6 switch-packets

[no] ipv6 switch-packets [lla]

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
switch-packets	Switch ND packets received on core ports
lla	(Optional) Switch ND packets targeted to Link local address on core ports

Command Mode

- /exec/configure

ipv6 traffic-filter

[no] ipv6 traffic-filter <name> <inout>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
traffic-filter	Specify access control for packets
<i>name</i>	List name
<i>inout</i>	Traffic direction

Command Mode

- /exec/configure/if-set-acl-l3

ipv6 unreachable

[no] ipv6 [icmp] unreachable

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
icmp	(Optional) ICMPv6 commands
unreachables	Enable sending ICMPv6 Unreachable messages (port-unreachables are always rate-limit enabled)

Command Mode

- /exec/configure/if-igp

ipv6 verify unicast source reachable-via rx

[no] ipv6 verify unicast source reachable-via { rx | any [allow-default] }

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
verify	Unicast Reverse Path Forwarding
unicast	Unicast Reverse Path Forwarding
source	Validation of source address
reachable-via	Specify reachability check to apply to the source address
rx	Source is reachable via interface on which packet was received
any	Source is reachable via any interface
allow-default	(Optional) Loose Default Route Unicast Reverse Path Forwarding

Command Mode

- /exec/configure/if-igp

ipv6 vip

[no] ipv6 vip <ipv6-addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
ipv6	Configure IPv6 features
vip	Virtual IPv6 address

Command Mode

- /exec/configure/if-igp

is-type

is-type <is-type> | no is-type [<is-type>]

Syntax Description

no	Negate a command or set its defaults
is-type	IS type for this IS-IS process
<i>is-type</i>	IS-IS IS type

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

ishow cli find nodes

ishow cli find nodes [<component>] [recurse]

Syntax Description

ishow	Show internal information
cli	Show CLI information
find	
nodes	display
<i>component</i>	(Optional) display
recurse	(Optional) go

Command Mode

- /exec

ishow cli modes

ishow cli modes

Syntax Description

ishow	Show internal information
cli	Show CLI information
modes	show

Command Mode

- /exec

ishow cli nodes

ishow cli nodes [<mode>]

Syntax Description

ishow	Show internal information
cli	Show CLI information
nodes	show
<i>mode</i>	(Optional) mode

Command Mode

- /exec

ishow cli paths

ishow cli paths <component> [<type>]

Syntax Description

ishow	Show internal information
cli	Show CLI information
paths	show
<i>component</i>	component
<i>type</i>	(Optional)

Command Mode

- /exec

ishow cli tags

ishow cli tags

Syntax Description

ishow	Show internal information
cli	Show CLI information
tags	

Command Mode

- /exec

ishow core backtrace

ishow core <pid> backtrace

Syntax Description

ishow	Show internal information
core	display info from core file
<i>pid</i>	PID from 'show cores
backtrace	display backtrace -- needs enough space to unzip the core file!

Command Mode

- /exec

isis authentication-check

[no] isis authentication-check

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
authentication-check	Check authentication on received hellos

Command Mode

- /exec/configure/if-p2p

isis authentication-check level-1

[no] isis authentication-check level-1

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
authentication-check	Check authentication on received hellos
level-1	Configure authentication check for level-1 IIHs

Command Mode

- /exec/configure/if-ma

isis authentication-check level-2

[no] isis authentication-check level-2

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
authentication-check	Check authentication on received hellos
level-2	Configure authentication check for level-2 IIHs

Command Mode

- /exec/configure/if-ma

isis authentication-type cleartext

```
{ isis authentication-type { cleartext | md5 } | no isis authentication-type [ { cleartext | md5 } ] }
```

Syntax Description

no	Negate a command or set its defaults
isis	IS-IS configuration commands
authentication-type	Set hello authentication type
cleartext	Cleartext
md5	HMAC-MD5

Command Mode

- /exec/configure/if-p2p

isis authentication-type cleartext

```
{ isis authentication-type { cleartext | md5 } <level> | no isis authentication-type [ { cleartext | md5 } ] <level>
}
```

Syntax Description

no	Negate a command or set its defaults
isis	IS-IS configuration commands
authentication-type	Set hello authentication type
cleartext	Cleartext
md5	HMAC-MD5
<i>level</i>	IS-IS level

Command Mode

- /exec/configure/if-ma

isis authentication key-chain

```
{ isis authentication key-chain <auth-keychain> | no isis authentication key-chain [ <auth-keychain> ] }
```

Syntax Description

no	Negate a command or set its defaults
isis	IS-IS configuration commands
authentication	Set hello authentication keychain
key-chain	Set hello authentication keychain
<i>auth-keychain</i>	authentication keychain

Command Mode

- /exec/configure/if-p2p

isis authentication key-chain

```
{ isis authentication key-chain <auth-keychain> <level> | no isis authentication key-chain [ <auth-keychain> ] <level> }
```

Syntax Description

no	Negate a command or set its defaults
isis	IS-IS configuration commands
authentication	Set hello authentication keychain
key-chain	Set hello authentication keychain
<i>auth-keychain</i>	authentication keychain
<i>level</i>	IS-IS level

Command Mode

- /exec/configure/if-ma

isis bfd

[no] isis bfd [disable]

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
bfd	Interface BFD configuration
disable	(Optional) Disable BFD on interface

Command Mode

- /exec/configure/if-igp

isis circuit-type

isis circuit-type <circuit-type> | no isis circuit-type [<circuit-type>]

Syntax Description

no	Negate a command or set its defaults
isis	IS-IS configuration commands
circuit-type	Configure circuit type for interface
<i>circuit-type</i>	IS-IS circuit type

Command Mode

- /exec/configure/if-igp

isis csnp-interval level

[no] isis csnp-interval <sec> { level-1 | level-2 }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
csnp-interval	Set CSNP interval in seconds
<i>sec</i>	CSNP interval value
level-1	Specify interval for level-1 CSNPs
level-2	Specify interval for level-2 CSNPs

Command Mode

- /exec/configure/if-igp

isis event-history adjacency

[no] isis event-history adjacency { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
adjacency	Adjacency events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis event-history cli

[no] isis event-history cli { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
cli	CLI events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis event-history csnp

[no] isis event-history csnp { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
csnp	CSNP events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis event-history dis

[no] isis event-history dis { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
dis	Dis events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis event-history events

[no] isis event-history events { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
events	Events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis event-history graceful

```
[no] isis event-history graceful { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
graceful	Graceful Restart events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis event-history ha

[no] isis event-history ha { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
ha	HA events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis event-history iih

[no] isis event-history iih { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
iih	IIH events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis event-history lsp-flood

[no] isis event-history lsp-flood { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
lsp-flood	LSP-flood events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis event-history lsp-gen

[no] isis event-history lsp-gen { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
lsp-gen	LSP-Gen events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis event-history mtr

[no] isis event-history mtr { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
mtr	MTR events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis event-history psnp

```
[no] isis event-history psnp { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
psnp	PSNP events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis event-history redist

[no] isis event-history redist { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
redist	Redist events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis event-history spf-leaf

```
[no] isis event-history spf-leaf { size { <size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
spf-leaf	Shortest path first events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis event-history spf-tree

[no] isis event-history spf-tree { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
spf-tree	SPF-Tree events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis event-history tlv

[no] isis event-history tlv { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
tlv	TLV events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis event-history urib

[no] isis event-history urib { size { <size_in_text> | <size_in_kbytes> } }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	Event-history buffers for IS-IS
event-history	Configure event-history buffers
urib	URIB events for IS-IS
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure/router-isis

isis hello-interval

[no] isis hello-interval <sec>

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
hello-interval	Set Hello interval in seconds
<i>sec</i>	Hello interval value

Command Mode

- /exec/configure/if-p2p

isis hello-interval level

[no] isis hello-interval <sec> { level-1 | level-2 }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
hello-interval	Set Hello interval in seconds
<i>sec</i>	Hello interval value
level-1	Specify hello-interval for level-1 IIHs
level-2	Specify hello-interval for level-2 IIHs

Command Mode

- /exec/configure/if-ma

isis hello-multiplier

[no] isis hello-multiplier <multi>

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
hello-multiplier	Set multiplier for Hello holding time
<i>multi</i>	Hello multiplier value

Command Mode

- /exec/configure/if-p2p

isis hello-multiplier level

[no] isis hello-multiplier <multi> { level-1 | level-2 }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
hello-multiplier	Set multiplier for Hello holding time
<i>multi</i>	Hello multiplier value
level-1	Specify hello multiplier for level-1 IIHs
level-2	Specify hello multiplier for level-2 IIHs

Command Mode

- /exec/configure/if-ma

isis hello-padding

{ isis hello-padding | no isis hello-padding [always] }

Syntax Description

no	Negate a command or set its defaults
isis	IS-IS configuration commands
hello-padding	Pad IS-IS hello PDUs to full MTU
always	(Optional) Pad every hello

Command Mode

- /exec/configure/if-igp

isis hello-padding always

isis hello-padding always

Syntax Description

isis	IS-IS configuration commands
hello-padding	Pad IS-IS hello PDUs to full MTU
always	Pad every hello

Command Mode

- /exec/configure/if-igp

isis ipv6 bfd

[no] isis ipv6 bfd [disable]

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
ipv6	Enable BFD for ipv6
bfd	Interface BFD configuration
disable	(Optional) Disable BFD on interface

Command Mode

- /exec/configure/if-igp

isis ipv6 metric

[no] isis ipv6 metric <metric> <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
metric	Configure metric for IPV6 topology
ipv6	Configure metric for IPV6 topology
<i>metric</i>	Default metric
<i>level</i>	IS-IS level

Command Mode

- /exec/configure/if-igp /exec/configure/router-isis/router-isis-af-ipv6

isis lsp-interval

[no] isis lsp-interval <msec>

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
lsp-interval	Set LSP transmission interval
<i>msec</i>	LSP transmission interval (milliseconds)

Command Mode

- /exec/configure/if-igp

isis mesh-group

```
{ isis mesh-group { blocked | <mesh-id> } | no isis mesh-group [ { blocked | <mesh-id> } ] }
```

Syntax Description

no	Negate a command or set its defaults
isis	IS-IS configuration commands
mesh-group	Set IS-IS mesh group
<i>mesh-id</i>	Mesh group number
blocked	Block LSPs on this interface

Command Mode

- /exec/configure/if-igp

isis metric

[no] isis metric <metric> <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
metric	Configure the metric for interface
<i>metric</i>	Default metric
<i>level</i>	IS-IS level

Command Mode

- /exec/configure/if-igp /exec/configure/if-mpls-tunnel

isis mtu-check

[no] isis mtu-check

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
mtu-check	Check mtu on received hellos, if its padded

Command Mode

- /exec/configure/if-p2p

isis mtu-check level

[no] isis mtu-check { level-1 | level-2 }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
mtu-check	Check mtu on received hellos, if its padded
level-1	Configure mtu-check for level-1
level-2	Configure mtu-check for level-2

Command Mode

- /exec/configure/if-ma

isis network point-to-point

[no] isis network point-to-point [use-allIS-mac]

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
network	Change interface medium to p2p
point-to-point	Change interface medium to p2p
use-allIS-mac	(Optional) use allISs MAC for Tx packets

Command Mode

- /exec/configure/if-igp /exec/configure/if-mpls-tunnel

isis passive-interface

isis passive-interface <level> | no isis passive-interface <level> | default isis passive-interface [<level_obsolete>]

Syntax Description

no	Negate a command or set its defaults
isis	IS-IS configuration commands
passive-interface	Suppress IS-IS PDU
default	Undo a command
<i>level</i>	Level to suppress
<i>level_obsolete</i>	(Optional) Level to suppress

Command Mode

- /exec/configure/if-igp

isis priority level

[no] isis priority <priority> { level-1 | level-2 }

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
priority	Set priority for DIS election
<i>priority</i>	Priority value
level-1	Specify priority for level-1 routing
level-2	Specify priority for level-2 routing

Command Mode

- /exec/configure/if-ma

isis retransmit-interval

[no] isis retransmit-interval <sec>

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
retransmit-interval	Set per-LSP retransmission interval
<i>sec</i>	Interval between retransmissions of the same LSP (seconds)

Command Mode

- /exec/configure/if-p2p

isis retransmit-throttle-interval

[no] isis retransmit-throttle-interval <msec>

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
retransmit-throttle-interval	Set interface LSP retransmission interval
<i>msec</i>	Delay between retransmitted LSPs (milliseconds)

Command Mode

- /exec/configure/if-p2p

isis shutdown

[no] isis shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
isis	IS-IS configuration commands
shutdown	Graceful shutdown IS-IS functionality on the interface

Command Mode

- /exec/configure/if-igp

isolate

[no] isolate

Syntax Description

no	(Optional) Negate a command or set its defaults
isolate	Isolate this router from BGP perspective

Command Mode

- /exec/configure/router-bgp

isolate

[no] isolate

Syntax Description

no	(Optional) Negate a command or set its defaults
isolate	Isolate this router from OSPF perspective

Command Mode

- /exec/configure/router-ospf

isolate

[no] isolate

Syntax Description

no	(Optional) Negate a command or set its defaults
isolate	Isolate this router from EIGRP perspective

Command Mode

- /exec/configure/router-eigrp

isolate

[no] isolate

Syntax Description

no	(Optional) Negate a command or set its defaults
isolate	Isolate router, ISIS perspective (set overload)

Command Mode

- /exec/configure/router-isis

isolate

[no] isolate

Syntax Description

no	(Optional) Negate a command or set its defaults
isolate	Isolate this router from RIP perspective

Command Mode

- /exec/configure/router-rip

isolate

[no] isolate

Syntax Description

no	(Optional) Negate a command or set its defaults
isolate	Isolate this router from OSPFV3 perspective

Command Mode

- /exec/configure/router-ospf3

itd

{ itd <service-name> } | { no itd <service-name> }

Syntax Description

no	Negate a command or set its defaults
itd	ITD service
<i>service-name</i>	ITD service-name

Command Mode

- /exec/configure

itd device-group

```
{ itd device-group <svc-name> } | { no itd device-group <svc-name> }
```

Syntax Description

no	Negate a command or set its defaults
itd	ITD service
device-group	ITD device group
<i>svc-name</i>	service-name

Command Mode

- /exec/configure

itd session access-list refresh

itd session access-list <acl-name> refresh

Syntax Description

itd	ITD service
session	ITD session
access-list	ITD access-list
<i>acl-name</i>	acl-name
refresh	refresh

Command Mode

- /exec/configure

itd session device-group

{ itd session device-group <svc-name> } | { no itd session device-group <svc-name> }

Syntax Description

no	Negate a command or set its defaults
itd	ITD service
session	ITD session
device-group	ITD device group
<i>svc-name</i>	service-name

Command Mode

- /exec/configure

itd statistics

{ itd statistics <service-name> } | { no itd statistics <service-name> }

Syntax Description

no	Negate a command or set its defaults
itd	ITD service
statistics	ITD statistics
<i>service-name</i>	ITD service-name

Command Mode

- /exec/configure



J Commands

- [job name](#), on page 2464
- [json-pretty](#), on page 2465
- [json](#), on page 2466
- [json](#), on page 2467

job name

[no] job name <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
job	Assign a job to the schedule
name	Assign a job to the schedule
s0	Specify the job name

Command Mode

- /exec/configure/schedule

json-pretty

| json-pretty

Syntax Description

	Pipe command output to filter
json-pretty	output in json pretty print format

Command Mode

- /output

json

| json

Syntax Description

	Pipe command output to filter
json	output in json format

Command Mode

- /output

json

| json

Syntax Description

	Pipe command output to filter
json	output in json format

Command Mode

- /output



K Commands

- [key-chain macsec-psk no-show](#), on page 2470
- [key-octet-string 7 cryptographic-algorithm AES_128_CMAC](#), on page 2471
- [key-octet-string 7 cryptographic-algorithm AES_256_CMAC](#), on page 2472
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- [kubernetes server ip-address port](#), on page 2485

key-chain macsec-psk no-show

[no] key-chain macsec-psk no-show

Syntax Description

no	(Optional) Negate a command or set its defaults
key-chain	Keychain Management
macsec-psk	Macsec Pre-shared key
no-show	do not show

Command Mode

- /exec/configure

key-octet-string 7 cryptographic-algorithm AES_128_CMAC

```
{ key-octet-string 7 <keystring> cryptographic-algorithm AES_128_CMAC }
```

Syntax Description

key-octet-string	Set key octet string
7	Encryption Type - Proprietary
<i>keystring</i>	key octet string
cryptographic-algorithm	Select CMAC algorithm for authentication
AES_128_CMAC	cryptographic-algorithm AES-128-CMAC

Command Mode

- /exec/configure/macseckeychain-key

key-octet-string 7 cryptographic-algorithm AES_256_CMAC

```
{ key-octet-string 7 <keystring> cryptographic-algorithm AES_256_CMAC }
```

Syntax Description

key-octet-string	Set key octet string
7	Encryption Type - Proprietary
<i>keystring</i>	key octet string
cryptographic-algorithm	Select CMAC algorithm for authentication
AES_256_CMAC	cryptographic-algorithm AES-256-CMAC

Command Mode

- /exec/configure/macseckeychain-key

key-octet-string cryptographic-algorithm AES_128_CMAC

```
{ key-octet-string [ 0 ] <keystring> cryptographic-algorithm AES_128_CMAC | no key-octet-string [ 0 ]  
<keystring> cryptographic-algorithm AES_128_CMAC }
```

Syntax Description

no	Negate a command or set its defaults
key-octet-string	Set key octet string
0	(Optional) Encryption Type - No Encryption(default)
<i>keystring</i>	key octet string
cryptographic-algorithm	Select CMAC algorithm for authentication
AES_128_CMAC	cryptographic-algorithm AES-128-CMAC

Command Mode

- /exec/configure/macseckeychain-key

key-octet-string cryptographic-algorithm AES_256_CMAC

```
{ key-octet-string [ 0 ] <keystring> cryptographic-algorithm AES_256_CMAC | no key-octet-string [ 0 ]
<keystring> cryptographic-algorithm AES_256_CMAC }
```

Syntax Description

no	Negate a command or set its defaults
key-octet-string	Set key octet string
0	(Optional) Encryption Type - No Encryption(default)
<i>keystring</i>	key octet string
cryptographic-algorithm	Select CMAC algorithm for authentication
AES_256_CMAC	cryptographic-algorithm AES-256-CMAC

Command Mode

- /exec/configure/macseckeychain-key

key-server-priority

[no] key-server-priority <pri>

Syntax Description

key-server-priority	Configure Key-Server priority
<i>pri</i>	key-server priority value

Command Mode

- /exec/configure/macsec-policy

key-string

{ key-string [0] <keystring> | no key-string }

Syntax Description

no	Negate a command or set its defaults
key-string	Set key string
0	(Optional) Encryption Type - No Encryption(default)
<i>keystring</i>	key string

Command Mode

- /exec/configure/keychain-key

key-string 7

```
{ key-string 7 <keystring> }
```

Syntax Description

key-string	Set key string
7	Encryption Type - Proprietary
<i>keystring</i>	key string

Command Mode

- /exec/configure/keychain-key

key

[no] key <keyid>

Syntax Description

no	(Optional) Negate a command or set its defaults
key	Configure a key
<i>keyid</i>	Key identifier

Command Mode

- /exec/configure/keychain

key

[no] key <macsec_keyid>

Syntax Description

no	(Optional) Negate a command or set its defaults
key	Configure a macsec key
<i>macsec_keyid</i>	MACsec Key identifier ranging from 1 octet to 32

Command Mode

- /exec/configure/macseckeychain

key chain

[no] key chain <keychain>

Syntax Description

no	(Optional) Negate a command or set its defaults
key	Key Management
chain	Keychain Management
<i>keychain</i>	key-chain name

Command Mode

- /exec/configure

key chain macsec

[no] key chain <keychain> macsec

Syntax Description

no	(Optional) Negate a command or set its defaults
key	Key Management
chain	Keychain Management
<i>keychain</i>	macsec key-chain name
macsec	Macsec Keychain

Command Mode

- /exec/configure

key config-key hex

[no] key config-key { hex | ascii } [<master-key>]

Syntax Description

no	(Optional) Negate a command or set its defaults
key	Encryption key for strong encryption
config-key	Master-key for strong encryption of secrets in config
hex	Key followed should be in hex format
ascii	Key followed should be in ascii format
<i>master-key</i>	(Optional) Enter the Master-key

Command Mode

- /exec

kill-everyone

[no] [eigrp] kill-everyone

Syntax Description

no	(Optional) Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
kill-everyone	Kill all adjacencies on SIA

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

kill background

kill background <pid>

Syntax Description

kill	terminate processes
background	kill background processes (started with 'source background <file>' command)
<i>pid</i>	background script to terminate, by process-id or just a regex matching any line from 'show background' command

Command Mode

- /exec

kubernetes server ip-address port

[no] kubernetes server ip-address <ip-addr> port <s0> [vrf <vrf-name>] | no kubernetes server

Syntax Description

no	(Optional) Negate a command or set its defaults
kubernetes	kubernetes
server	kubernetes server
ip-address	IP address of the kubernetes host
<i>ip-addr</i>	ip address of kubernetes Host
port	Port number of the host
<i>s0</i>	port number
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name

Command Mode

- /exec/configure

kubernetes server ip-address port



L Commands

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l2rib dup-host-mac-detection

{ no l2rib dup-host-mac-detection } | { l2rib dup-host-mac-detection <num-of-moves> <duration> }

Syntax Description

no	Negate a command or set its defaults
l2rib	Layer 2 routing information base
dup-host-mac-detection	Set Duplicate-Host-MAC-Detection parameters
<i>num-of-moves</i>	Number of host moves to be allowed
<i>duration</i>	Duplicate detection timeout in secs for host moves

Command Mode

- /exec/configure

l2rib dup-host-mac-recovery

{ no l2rib dup-host-mac-recovery } | { l2rib dup-host-mac-recovery <timeout> <retry-count> }

Syntax Description

no	Negate a command or set its defaults
l2rib	Layer 2 routing information base
dup-host-mac-recovery	Set Duplicate-Host-MAC-Recovery (Unfreeze) parameters
<i>timeout</i>	Unfreeze timeout (secs)
<i>retry-count</i>	Unfreeze retry count

Command Mode

- /exec/configure

l2rib event-history size

```
l2rib event-history { client-tbl | ead-pl | errors | mac | mac-ip | misc-obj | rmac | topology | tx-infra | server }
size { default | medium | high | very-high }
```

Syntax Description

l2rib	Layer 2 routing information base
event-history	Set event-history size for L2RIB
client-tbl	L2RIB Client, Producer, Consumer Tables Event Logs
ead-pl	L2RIB EAD, Path-List Objects Event Logs
errors	L2RIB Error Logs
mac	L2RIB MAC Object Event Logs
mac-ip	L2RIB MAC Object Event Logs
misc-obj	L2RIB IMET, Flood-List, ARP-Signal, Peer ID, Startup-Routes Objects Event Logs
rmac	L2RIB Router MAC Object Event Logs
topology	L2RIB Topology Object Event Logs
tx-infra	L2RIB TxList, TxSend, TxThread Event Logs
server	L2RIB Sysmgr, PSS, HA Logs
size	Size
default	Default (Low)
medium	Medium
high	High
very-high	Very High

Command Mode

- /exec/configure

l3vm event-history

```
[no] l3vm event-history { pss | errors | mts | reinit | cli | vrf | topology } { size { <size_in_text> | <size_in_Kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
l3vm	Debug L3VM information
event-history	log debug events into event history buffer
pss	L3VM pss operation
errors	L3VM errors
mts	L3VM MTS messages
reinit	L3VM reinit events
cli	Log L3VM CLI related events
vrf	Log VRF related events
topology	Log Topology related events
size	Configure the size of the event-hist buffer
<i>size_in_text</i>	Buffer size
<i>size_in_Kbytes</i>	Size of the file in kbytes

Command Mode

- /exec

label-allocation-mode per-vrf

[no] label-allocation-mode per-vrf

Syntax Description

no	(Optional) Negate a command or set its defaults
label-allocation-mode	Configure label allocation mode
per-vrf	per VRF label allocation mode

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6

label allocate global

[no] label allocate global { all-routes | host-routes | prefix-list <px-list> }

Syntax Description

no	(Optional) Negate a command or set its defaults
label	LDP label configuration
allocate	Allocate local labels
global	Specify default VPN Routing/Forwarding instance
all-routes	Allocate local labels for all routes
host-routes	Allocate local labels for host routes only (default)
prefix-list	Specify a prefix-list for local label filtering
<i>px-list</i>	IP prefix-list for destination prefixes

Command Mode

- /exec/configure/ldp

lacp fast-select-hot-standby

lacp fast-select-hot-standby | no lacp fast-select-hot-standby

Syntax Description

no	Negate a command or set its defaults
lacp	Set LACP parameters for the interface
fast-select-hot-standby	Configure fast select for hot standby ports. Enabling this feature will allow fast selection of hot standby port when last active port in the port-channel is going down.

Command Mode

- /exec/configure/if-eth-port-channel-switch /exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p

lACP mode delay

[no] lACP mode delay

Syntax Description

no	(Optional) Negate a command or set its defaults
lACP	Set LACP parameters for the interface
mode	Enter the LACP mode
delay	Configure delayed lACP on the port-channel

Command Mode

- /exec/configure/if-eth-port-channel-switch /exec/configure/if-eth-port-channel
/exec/configure/if-eth-port-channel-p2p

lacp port-priority

lacp port-priority <port-pri> | no lacp port-priority

Syntax Description

no	Negate a command or set its defaults
lacp	Set LACP parameters for the interface
port-priority	Set LACP port priority
<i>port-pri</i>	Enter port priority

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

lacp rapid-transition

lacp rapid-transition | no lacp rapid-transition

Syntax Description

no	Negate a command or set its defaults
lacp	Set LACP parameters for the interface
rapid-transition	Optimizes LACP timers for rapid transition from P->I, I->P state

Command Mode

- /exec/configure

lACP rate

lACP rate <rate_type>

Syntax Description

lACP	Set LACP parameters for the interface
rate	Configure rate at which PDUs are sent by LACP
<i>rate_type</i>	Rate type

Command Mode

- /exec/configure/if-ethernet /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-ethernet-m /exec/configure/if-ethernet-switch-m /exec/configure/if-remote-ethernet /exec/configure/if-remote-ethernet-switch

lacp rate

[no] lacp rate

Syntax Description

no	Negate a command or set its defaults
lacp	Set LACP parameters for the interface
rate	Configure rate at which PDUs are sent by LACP

Command Mode

- /exec/configure/if-ethernet /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-ethernet-m /exec/configure/if-ethernet-switch-m /exec/configure/if-remote-ethernet /exec/configure/if-remote-ethernet-switch

lacp system-priority

lacp system-priority <sys-pri> | no lacp system-priority

Syntax Description

no	Negate a command or set its defaults
lacp	Set LACP parameters for the interface
system-priority	Set LACP system priority
<i>sys-pri</i>	Enter System Priority

Command Mode

- /exec/configure

last

| last [<lines>]

Syntax Description

	Pipe command output to filter
last	Display last lines
<i>lines</i>	(Optional) number of lines to print

Command Mode

- /output

layer-2 multicast lookup mac

[no] layer-2 multicast lookup mac

Syntax Description

no	(Optional) Negate a command or set its defaults
layer-2	set layer2 multicast lkup mode
multicast	set layer2 multicast lkup mode
lookup	lkup type can be either mac or ip based
mac	set mac based multicast lkup mode

Command Mode

- /exec/configure/vlan

layer-2 multicast lookup mac

[no] layer-2 multicast lookup mac

Syntax Description

no	(Optional) Negate a command or set its defaults
layer-2	set layer2 multicast lkup mode
multicast	set layer2 multicast lkup mode
lookup	lkup type can be either mac or ip based
mac	set mac based multicast lkup mode

Command Mode

- /exec/configure

layer-2 multicast lookup mac

[no] layer-2 multicast lookup mac

Syntax Description

no	(Optional) Negate a command or set its defaults
layer-2	set layer2 multicast lkup mode
multicast	set layer2 multicast lkup mode
lookup	lkup type can be either mac or ip based
mac	set mac based multicast lkup mode

Command Mode

- /exec/configure/vlan-config /exec/configure/bdomain

layer2-switched flow monitor input

[no] layer2-switched flow monitor <monitorname> input

Syntax Description

layer2-switched	Configure L2 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic

Command Mode

- /exec/configure

layer2-switched flow monitor input

[no] layer2-switched flow monitor <monitorname> input

Syntax Description

layer2-switched	Configure L2 features
flow	NetFlow related commands
monitor	Apply a Flow Monitor to this interface
<i>monitorname</i>	Name of Flow Monitor
input	Apply Flow Monitor on input traffic

Command Mode

- /exec/configure/if-switching

layer3 peer-router

layer3 peer-router | no layer3 peer-router

Syntax Description

no	Negate a command or set its defaults
layer3	Enable layer 3 functionality
peer-router	no change for TTL of packets destined to the peer

Command Mode

- /exec/configure/vpc-domain

layer3 peer-router syslog

layer3 peer-router syslog [interval <syslog-interval>] | no layer3 peer-router syslog

Syntax Description

no	Negate a command or set its defaults
layer3	Enable layer 3 functionality
peer-router	no change for TTL of packets destined to the peer
syslog	print layer 3 protocol syslog
interval	(Optional) how frequent to print the syslog
<i>syslog-interval</i>	(Optional) how many seconds to print a syslog

Command Mode

- /exec/configure/vpc-domain

ldap-search-map

[no] ldap-search-map

Syntax Description

no	Negate a command or set its defaults
ldap-search-map	Set one of the configured search-map as active

Command Mode

- /exec/configure/ldap

ldap-search-map

ldap-search-map <*s0*>

Syntax Description

ldap-search-map	Set one of the configured search-map as active
<i>s0</i>	Name of the search-map

Command Mode

- /exec/configure/ldap

ldap-server deadtime

[no] ldap-server deadtime <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
ldap-server	Configure LDAP related parameters
deadtime	Global LDAP server deadtime period in seconds
<i>i0</i>	LDAP server deadtime period in minutes (default 0 mins -disabled)

Command Mode

- /exec/configure

ldap-server host

```
[no] ldap-server host { <hostipname> } [ { enable-ssl | port <i1> [ timeout <i2> ] | rootDN <s0> [ password
{ 7 <s1> { { [ port1 <i3> [ timeout1 <i4> ] ] } | { [ timeout5 <i9> ] } } | <s2> { { [ port2 <i5> [ timeout2 <i6>
] ] } | { [ timeout4 <i8> ] } } } ] | timeout3 <i7> } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ldap-server	Configure LDAP related parameters
host	LDAP server's DNS name or IP address
<i>hostipname</i>	IPV4/IPV6 address or DNS name
enable-ssl	(Optional) LDAP server enable ssl
port	(Optional) LDAP server's port (default: global config)
<i>i1</i>	(Optional) port number
timeout	(Optional) LDAP server timeout period in seconds
<i>i2</i>	(Optional) LDAP server timeout in seconds (default: global config)
rootDN	(Optional) LDAP server root DN
<i>s0</i>	(Optional) root DN
password	(Optional) LDAP server root password
7	(Optional) LDAP root password (encrypted)
<i>s1</i>	(Optional) password (encrypted)
port1	(Optional) LDAP server's port (default: global config)
<i>i3</i>	(Optional) port number
timeout1	(Optional) LDAP server timeout period in seconds
<i>i4</i>	(Optional) LDAP server timeout in seconds (default: global config)
<i>s2</i>	(Optional) password (clear text)
port2	(Optional) LDAP server's port (default: global config)
<i>i5</i>	(Optional) port number
timeout2	(Optional) LDAP server timeout period in seconds
<i>i6</i>	(Optional) LDAP server timeout in seconds (default: global config)
timeout3	(Optional) LDAP server timeout period in seconds

<i>i7</i>	(Optional) LDAP server timeout in seconds (default: global config)
timeout4	(Optional) LDAP server timeout period in seconds
<i>i8</i>	(Optional) LDAP server timeout in seconds (default: global config)
timeout5	(Optional) LDAP server timeout period in seconds
<i>i9</i>	(Optional) LDAP server timeout in seconds (default: global config)

Command Mode

- /exec/configure

ldap-server host test rootDN

```
[no] ldap-server host { <hostipname> } test rootDN <r1> { { [ username <s0> { [ password { [ 7 <s2> | <s1> ] } ] [ idle-time <i1> ] ] } | [ idle-time <i1> ] } } } | { [ password { [ 7 <s2> | <s1> ] } ] [ idle-time <i1> ] ] } | { [ idle-time <i1> ] } }
```

Syntax Description

<i>username</i>	(Optional) <s0>
no	(Optional) Negate a command or set its defaults
ldap-server	Configure LDAP related parameters
host	LDAP server's IP address
<i>hostipname</i>	IPV4/IPV6 address or DNS name
test	Parameters to send test packets
7	(Optional) LDAP test password (encrypted)
<i>s0</i>	(Optional) user name
password	(Optional) user password in test packets
<i>s1</i>	(Optional) test password
<i>s2</i>	(Optional) test password (encrypted)
rootDN	rootDN in test packets
<i>r1</i>	root DN
idle-time	(Optional) time interval for monitoring the server
<i>i1</i>	(Optional) time period in minutes

Command Mode

- /exec/configure

ldap-server port

[no] ldap-server port <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
ldap-server	Configure LDAP related parameters
port	Global LDAP server's port (default 389)
<i>i0</i>	port number

Command Mode

- /exec/configure

ldap-server timeout

[no] ldap-server timeout <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
ldap-server	Configure LDAP related parameters
timeout	Global LDAP server timeout period in seconds
<i>i0</i>	LDAP server timeout period in seconds (default 5 sec)

Command Mode

- /exec/configure

ldap search-map

[no] ldap search-map <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
ldap	Configure information about ldap
search-map	Configure the search-map
s0	Search Map Name

Command Mode

- /exec/configure

less

| less [-d | -E] +

Syntax Description

	Pipe command output to filter
less	Filter for paging
-d	(Optional) dumb terminal
-E	(Optional) quit at end of file

Command Mode

- /output

license expiry check_interval

license expiry check_interval <i0>

Syntax Description

license	Enter the license configuration mode
expiry	Configure the expiry check interval
check_interval	Configure the expiry check interval
<i>i0</i>	Specify the license expiry check interval in seconds

Command Mode

- /exec

license grace-period

[no] license grace-period

Syntax Description

no	(Optional) Negate a command or set its defaults
license	Modify license features
grace-period	Configure grace period support for licenses

Command Mode

- /exec/configure

license grace-period days

license grace-period days <i0>

Syntax Description

license	Enter the license configuration mode
grace-period	Configure the grace period
days	Congigure the grace period in days
<i>i0</i>	Number of days

Command Mode

- /exec

license grace-period seconds

license grace-period seconds <i0>

Syntax Description

license	Enter license configuration mode
grace-period	Configure the grace period
seconds	Configure the grace period in seconds
<i>i0</i>	Specify the grace period in seconds

Command Mode

- /exec

license grace period

license grace period <i0>

Syntax Description

license	Enter the license configuration mode
grace	Configure the grace period
period	Specify the grace period in days
<i>i0</i>	

Command Mode

- /exec

license reserve count package module

[no] license reserve count <i0> package <license-feature> module <i1>

Syntax Description

no	(Optional) Negate a command or set its defaults
license	Display licensing information
reserve	Reserve the licenses for the specified module
count	Count of licenses to reserve
<i>i0</i>	Count of licenses
package	Name of the license package to reserve
<i>license-feature</i>	Name of the license package
module	Module number
<i>i1</i>	Module number

Command Mode

- /exec/configure

limit-resource m4route-mem maximum equal-to-min

```
{ limit-resource m4route-mem [ minimum { <min> | <min-hi> } ] maximum { <max-lo> | <max> | <max-hi>
| equal-to-min } } | { no limit-resource m4route-mem [ [ minimum { <min> | <min-hi> } ] maximum {
<max-lo> | <max> | <max-hi> | equal-to-min } ] }
```

Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
m4route-mem	set ipv4 route memory limits
minimum	(Optional) minimum route memory to allocate
<i>min</i>	(Optional) minimum route memory value
<i>min-hi</i>	(Optional) minimum route memory value
maximum	maximum route memory to allocate
<i>max-lo</i>	maximum route memory value
<i>max</i>	maximum route memory value
<i>max-hi</i>	maximum route memory value
equal-to-min	maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

Usage Guidelines



Note You can set only one value for the resource maximum or minimum limits. If you specify a minimum limit, the maximum limit is ignored, but that value is displayed for both the minimum and maximum limits. If you specify only a maximum limit, that value is displayed for both the minimum and maximum limits.

limit-resource m6route-mem maximum

```
{ limit-resource m6route-mem [ minimum { <min> | <min-hi> } ] maximum { <max-lo> | <max> | <max-hi> } } | { no limit-resource m6route-mem [ [ minimum { <min> | <min-hi> } ] maximum { <max-lo> | <max> | <max-hi> } ] }
```

Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
m6route-mem	set ipv6 route memory limits
minimum	(Optional) minimum route memory to allocate
<i>min</i>	(Optional) minimum route memory value
<i>min-hi</i>	(Optional) minimum route memory value
maximum	maximum route memory to allocate
<i>max-lo</i>	maximum route memory value
<i>max</i>	maximum route memory value
<i>max-hi</i>	maximum route memory value

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

Usage Guidelines



Note You can set only one value for the resource maximum or minimum limits. If you specify a minimum limit, the maximum limit is ignored, but that value is displayed for both the minimum and maximum limits. If you specify only a maximum limit, that value is displayed for both the minimum and maximum limits.

limit-resource module-type

{ limit-resource module-type <card-type> + } | { no limit-resource module-type }

Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
module-type	Controls which type of modules are allowed in this vdc
<i>card-type</i>	Allowed module types

Command Mode

- /exec/configure/vdc

limit-resource monitor-session-erspan-dst minimum maximum equal-to-min

```
{ limit-resource monitor-session-erspan-dst minimum <min-val> maximum { <max-val> | equal-to-min } }
| { no limit-resource monitor-session-erspan-dst [ minimum <min-val> maximum { <max-val> | equal-to-min
} ] }
```

Syntax Description

limit-resource	Resource configuration
monitor-session-erspan-dst	Monitor erspan destination session
minimum	minimum monitor erspan-dst session to allocate
<i>min-val</i>	minimum monitor erspan-dst session value
maximum	maximum monitor erspan-dst session to allocate
<i>max-val</i>	maximum monitor erspan-dst session value
equal-to-min	set maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

limit-resource monitor-session-inband-src minimum maximum equal-to-min

```
{ limit-resource monitor-session-inband-src minimum <min-val> maximum { <max-val> | equal-to-min } }
| { no limit-resource monitor-session-inband-src [ minimum <min-val> maximum { <max-val> | equal-to-min
} ] }
```

Syntax Description

limit-resource	Resource configuration
monitor-session-inband-src	Monitor inband source
minimum	minimum monitor inband source to allocate
<i>min-val</i>	minimum monitor inband source value
maximum	maximum monitor inband source to allocate
<i>max-val</i>	maximum monitor inband source value
equal-to-min	set maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

limit-resource monitor-session minimum maximum equal-to-min

```
{ limit-resource monitor-session minimum <min-val> maximum { <max-val> | equal-to-min } } | { no
limit-resource monitor-session [ minimum <min-val> maximum { <max-val> | equal-to-min } ] }
```

Syntax Description

limit-resource	Resource configuration
monitor-session	Monitor local/erspan-source session
minimum	minimum monitor local session to allocate
<i>min-val</i>	minimum monitor local session value
maximum	maximum monitor local session to allocate
<i>max-val</i>	maximum monitor local session value
equal-to-min	set maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

limit-resource port-channel minimum maximum

limit-resource port-channel minimum <min-val> maximum { <max-val> | equal-to-min } | no limit-resource port-channel [minimum <min-val> maximum { <max-val> | equal-to-min }]

Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
port-channel	set port-channel limits
minimum	minimum port-channels to allocate
<i>min-val</i>	
maximum	maximum port-channels to allocate
<i>max-val</i>	
equal-to-min	set maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

limit-resource u4route-mem maximum equal-to-min

```
{ limit-resource u4route-mem [ minimum { <min-lo> | <min> | <min-hi> } ] maximum { <max-lo> | <max> | <max-hi> | equal-to-min } } | { no limit-resource u4route-mem [ [ minimum { <min-lo> | <min> | <min-hi> } ] maximum { <max-lo> | <max> | <max-hi> | equal-to-min } ] }
```

Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
u4route-mem	set ipv4 route memory limits
minimum	(Optional) minimum route memory to allocate
<i>min-lo</i>	(Optional) minimum route memory value
<i>min</i>	(Optional) minimum route memory value
<i>min-hi</i>	(Optional) minimum route memory value
maximum	maximum route memory to allocate
<i>max-lo</i>	maximum route memory value
<i>max</i>	maximum route memory value
<i>max-hi</i>	maximum route memory value
equal-to-min	maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

Usage Guidelines



Note You can set only one value for the resource maximum or minimum limits. If you specify a minimum limit, the maximum limit is ignored, but that value is displayed for both the minimum and maximum limits. If you specify only a maximum limit, that value is displayed for both the minimum and maximum limits.

limit-resource u6route-mem maximum equal-to-min

```
{ limit-resource u6route-mem [ minimum { <min-lo> | <min> | <min-hi> } ] maximum { <max-lo> | <max>
| <max-hi> | equal-to-min } } | { no limit-resource u6route-mem [ [ minimum { <min-lo> | <min> | <min-hi>
} ] maximum { <max-lo> | <max> | <max-hi> | equal-to-min } ] }
```

Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
u6route-mem	set ipv6 route memory limits
minimum	(Optional) minimum route memory to allocate
<i>min-lo</i>	(Optional) minimum route memory value
<i>min</i>	(Optional) minimum route memory value
<i>min</i>	(Optional) minimum route memory value
<i>min-hi</i>	(Optional) minimum route memory value
maximum	maximum route memory to allocate
<i>max-lo</i>	maximum route memory value
<i>max</i>	maximum route memory value
<i>max-hi</i>	maximum route memory value
equal-to-min	maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

Usage Guidelines



Note You can set only one value for the resource maximum or minimum limits. If you specify a minimum limit, the maximum limit is ignored, but that value is displayed for both the minimum and maximum limits. If you specify only a maximum limit, that value is displayed for both the minimum and maximum limits.

limit-resource vlan minimum maximum equal-to-min

{ limit-resource vlan minimum <min-val> maximum { <max-val> | equal-to-min } } | { no limit-resource vlan [minimum <min-val> maximum { <max-val> | equal-to-min }] }

Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
vlan	set VLAN limits
minimum	minimum VLANs to allocate
<i>min-val</i>	minimum VLANs value
maximum	maximum VLANs to allocate
<i>max-val</i>	maximum VLANs value
equal-to-min	set maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

limit-resource vrf minimum maximum equal-to-min

```
{ limit-resource vrf minimum <number1> maximum { <number2> | equal-to-min } } | { no limit-resource vrf [ minimum <number1> maximum { <number2> | equal-to-min } ] }
```

Syntax Description

no	Negate a command or set its defaults
limit-resource	Resource configuration
vrf	set vrf resource limits
minimum	minimum vrf resources to allocate
<i>number1</i>	minimum vrf resource value
maximum	maximum vrf resources to allocate
<i>number2</i>	maximum vrf resource value
equal-to-min	set maximum value equal to min

Command Mode

- /exec/configure/vdc-template /exec/configure/vdc

limit address-count

[no] limit address-count <addr_count>

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>addr_count</i>	maximum value

Command Mode

- /exec/configure/config-snoop-policy

line console

[no] line console

Syntax Description

no	(Optional) Negate a command or set its defaults
line	Configure a terminal line
console	Primary terminal line

Command Mode

- /exec/configure

line console

[no] line console

Syntax Description

no	(Optional) Negate a command or set its defaults
line	Configure a terminal line
console	Primary terminal line

Command Mode

- /exec/configure

line vty

line vty

Syntax Description

line	Configure a terminal line
vty	Virtual terminal line

Command Mode

- /exec/configure

line vty

[no] line vty

Syntax Description

no	Negate a command or set its defaults
line	Configure a terminal line
vty	Virtual terminal line

Command Mode

- /exec/configure

link-management timers bandwidth

[no] link-management timers { bandwidth-hold | periodic-flooding } | link-management timers { bandwidth-hold <bw_seconds> | periodic-flooding <flood_seconds> }

Syntax Description

no	Negate a command or set its defaults
link-management	Link Management configuration
timers	Link Management timers configuration
bandwidth-hold	Link Management bandwidth hold timer
<i>bw_seconds</i>	seconds
periodic-flooding	Link Management periodic flooding interval
<i>flood_seconds</i>	seconds [0 to disable, minimum set to 30]

Command Mode

- /exec/configure/te

link debounce

link debounce [time <time_val>] | no link debounce [time <time_val>]

Syntax Description

no	Negate a command or set its defaults
link	Configure link
debounce	Configure link debounce timer
time	(Optional) Link debounce time
<i>time_val</i>	(Optional) Timer value (in milliseconds)

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

lisp

```
{ lisp-lig | lig } { version | self | self6 | <hostname> | { <eid> | <eid6> } } [ source { <seid> | <seid6> } ] [ to
{ <mr-hostname> | { <mr> | <mr6> } } ] [ count <count> ] [ probe ] [ vrf { <vrf-name> | <vrf-known-name>
} ]
```

Syntax Description

lisp-lig	LISP Internet Groper
lig	LISP Internet Groper
<i>eid</i>	LIG on a IPv4 Endpoint ID (EID)
version	Display Internet Draft version lig supports
self	Test if IPv4 EID-prefix registered in mapping database
self6	Test if IPv6 EID-prefix registered in mapping database
<i>hostname</i>	DNS name for Endpoint ID (EID)
source	(Optional) Provide source EID for Map-Request
<i>seid</i>	(Optional) Source IPv4 Endpoint ID (EID)
to	(Optional) Where to send the Map-Request
<i>mr-hostname</i>	(Optional) DNS name for Map-Resolver
<i>mr</i>	(Optional) Map-Resolver IPv4 address to send Map-Request to
count	(Optional) Map-Requests to send before Map-Reply returned
<i>count</i>	(Optional) Number of Map-Requests
probe	(Optional) RLOC-probe each locator
vrf	(Optional) LIGing for specific VRF
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec

lisp ddt

{ [no] lisp ddt }

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
ddt	Configures a LISP-DDT mapping system functionality

Command Mode

- /exec/configure /exec/configure/vrf

lisp ddt authoritative-prefix eid-prefix

```
{ [ no ] lisp ddt authoritative-prefix eid-prefix { <eid-prefix> | <eid-prefix6> } } | { [ no ] lisp ddt
authoritative-prefix instance-id <iid> [ eid-prefix { <eid-prefix> | <eid-prefix6> } ] } | { [ no ] lisp ddt
authoritative-prefix <star> } | { [ no ] lisp ddt authoritative-prefix instance-id { <iidp> | <range> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
ddt	Configure LISP-DDT parameters
authoritative-prefix	Configure EID-prefix this LISP-DDT node is authoritative for
instance-id	Instance ID of VPN for EID-prefix
<i>iid</i>	Instance-ID value
star	Authoritative prefix on root for all address space
<i>iidp</i>	Instance-ID in prefix format
<i>range</i>	Instance-ID range in 'x-y' format where y > x
eid-prefix	Authoritative IPv4 or IPv6 EID-prefix
<i>eid-prefix</i>	EID-prefix in IPv4 slash format

Command Mode

- /exec/configure /exec/configure/vrf

lisp ddt delegate eid-prefix

```
{ [ no ] lisp ddt delegate { <node> | <node6> } { eid-prefix { <eid-prefix> | <eid-prefix6> } } [ priority <priority> weight <weight> ] [ public-key <key> ] [ map-server ] } | { [ no ] lisp ddt delegate { <node> | <node6> } instance-id <iid> [ eid-prefix { <eid-prefix> | <eid-prefix6> } } [ priority <priority> weight <weight> ] [ public-key <key> ] [ map-server ] } | { [ no ] lisp ddt delegate { <node> | <node6> } instance-id { <iidp> | <range> } [ priority <priority> weight <weight> ] [ public-key <key> ] [ map-server ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
ddt	Configure LISP-DDT parameters
delegate	Configure LISP-DDT child in delegation hierarchy
<i>node</i>	IPv4 locator address of DDT node
instance-id	Instance ID of VPN for EID-prefix
<i>iid</i>	Instance-ID value
<i>iidp</i>	Instance-ID in prefix format
<i>range</i>	Instance-ID range in 'x-y' format where y > x
eid-prefix	Child delegation for IPv4 or IPv6 EID-prefix
<i>eid-prefix</i>	EID-prefix in IPv4 slash format
priority	(Optional) Configures which Locators from a set are preferred
<i>priority</i>	(Optional) Lower priority Locator takes preference
weight	(Optional) Traffic load-spreading among Locators
<i>weight</i>	(Optional) Specified in a percentage from 0 to 100
map-server	(Optional) Child delegate is a Map-Server
public-key	(Optional) DDT child's public key this DDT-node supplies for referrals
<i>key</i>	(Optional) RSA public-key

Command Mode

- /exec/configure /exec/configure/vrf

lisp ddt inherit-referrals

{ [no] lisp ddt inherit-referrals }

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
ddt	Configure LISP-DDT parameters
inherit-referrals	Inherit map-server referrals from parent DDT-node

Command Mode

- /exec/configure /exec/configure/vrf

lisp ddt map-server-peer eid-prefix

```
{ [ no ] lisp ddt map-server-peer { <node> | <node6> } { eid-prefix { <eid-prefix> | <eid-prefix6> } } [ priority <priority> weight <weight> ] [ public-key <key> ] } | { [ no ] lisp ddt map-server-peer { <node> | <node6> } instance-id <iid> [ eid-prefix { <eid-prefix> | <eid-prefix6> } ] [ priority <priority> weight <weight> ] [ public-key <key> ] } | { [ no ] lisp ddt map-server-peer { <node> | <node6> } instance-id { <iidp> | <range> } [ priority <priority> weight <weight> ] [ public-key <key> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
ddt	Configure LISP-DDT parameters
map-server-peer	Configure other map-server peers
<i>node</i>	IPv4 locator address of DDT node
instance-id	Instance ID of VPN for EID-prefix
<i>iid</i>	Instance-ID value
<i>iidp</i>	Instance-ID in prefix format
<i>range</i>	Instance-ID range in 'x-y' format where y > x
eid-prefix	Child delegation for IPv4 or IPv6 EID-prefix
<i>eid-prefix</i>	EID-prefix in IPv4 slash format
priority	(Optional) Configures which Locators from a set are preferred
<i>priority</i>	(Optional) Lower priority Locator takes preference
weight	(Optional) Traffic load-spreading among Locators
<i>weight</i>	(Optional) Specified in a percentage from 0 to 100
public-key	(Optional) DDT child's public key this DDT-node supplies for referrals
<i>key</i>	(Optional) RSA public-key

Command Mode

- /exec/configure /exec/configure/vrf

lisp ddt private-key

[no] lisp ddt private-key <key>

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
ddt	Configure LISP-DDT parameters
private-key	Configures LISP-DDT private-key for signing Map-Referral messages
key	RSA private-key

Command Mode

- /exec/configure /exec/configure/vrf

lisp ddt root

[no] lisp ddt root { <root> | <root6> } [public-key <key>]

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
ddt	Configure LISP-DDT parameters
root	Configure LISP-DDT root of tree in Map-Resolver
<i>root</i>	IPv4 locator address of DDT root
public-key	(Optional) DDT root's public key used to verify signed Map-Referrals
<i>key</i>	(Optional) RSA public-key

Command Mode

- /exec/configure /exec/configure/vrf

lisp dont-prime-map-cache

```
{ [ no ] lisp dont-prime-map-cache }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
dont-prime-map-cache	Do not send Map-Requests for arbitrary EIDs to prime map-cache

Command Mode

- /exec/configure /exec/configure/vrf

lisp dynamic-eid

```
{ [ no ] lisp dynamic-eid <dyn-eid-name> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
dynamic-eid	Configure dynamic-EIDs for roaming
<i>dyn-eid-name</i>	Name your dynamic-EID

Command Mode

- /exec/configure

lisp dynamic-eid

```
{ [ no ] lisp dynamic-eid <dyn-eid-name> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
dynamic-eid	Configure dynamic-EIDs for roaming
<i>dyn-eid-name</i>	Name your dynamic-EID

Command Mode

- /exec/configure/vrf

lisp explicit-locator-path

```
{ [ no ] lisp explicit-locator-path <elp-name> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
explicit-locator-path	Configures a LISP Explicit Locator Path (ELP)
<i>elp-name</i>	Name of LISP ELP

Command Mode

- /exec/configure

lisp explicit-locator-path

[no] lisp explicit-locator-path <elp-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
explicit-locator-path	Configures a LISP Explicit Locator Path (ELP)
<i>elp-name</i>	Name of LISP ELP

Command Mode

- /exec/configure/vrf

lisp extended-subnet-mode

{ [no] lisp extended-subnet-mode }

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP interface configuration commands
extended-subnet-mode	Create dynamic-EID state when EIDs reside on their home subnet

Command Mode

- /exec/configure/if-igp

lisp geo-coordinates

[no] lisp geo-coordinates <latitude> <longitude> [<altitude>]

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
geo-coordinates	Configure Geo Coordinates for this router
<i>latitude</i>	Latitude in DMS format: 'degree-min-sec-N' or 'degree-min-sec-S'
<i>longitude</i>	Longitude in DMS format: 'degree-min-sec-E' or 'degree-min-sec-W' format
<i>altitude</i>	(Optional) Altitude in meters above sea-level

Command Mode

- /exec/configure /exec/configure/vrf

lisp ignore-smr

[no] lisp ignore-smr

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
ignore-smr	Do not respond to SMRs when no map-cache entry exists

Command Mode

- /exec/configure

lisp instance-id

[no] lisp instance-id <iid>

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
instance-id	Configures Instance-ID for global data-mappings
<i>iid</i>	24-bit instance-ID value

Command Mode

- /exec/configure /exec/configure/vrf

lisp internal event-history size

[no] lisp internal event-history <lisp-event-hist> size <size_in_text>

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP debug commands
internal	LISP internal configuration commands
event-history	Configure LISP event log
<i>lisp-event-hist</i>	Configure LISP event log
size	Size of buffer
<i>size_in_text</i>	Buffer size

Command Mode

- /exec/configure

lisp loc-reach-algorithm

```
[no] lisp loc-reach-algorithm { count-tcp | echo-nonce | { rloc-probing [ map-request-on-failure ] } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
loc-reach-algorithm	Configure locator reachability algorithm
count-tcp	Count TCP SYNs and ACKs
echo-nonce	Request for nonce to echo back in data-plane
rloc-probing	Probe each high-priority RLOC with Map-Request as last resort
map-request-on-failure	(Optional) Send Map-Request to database mapping system when any RLOC for a map-cache entry becomes RLOC-probing unreachable

Command Mode

- /exec/configure /exec/configure/vrf

lisp merge-registrations site-id

[no] lisp merge-registrations site-id <site-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
merge-registrations	ETRs merge registrations from Map-Notify messages
site-id	Configure site-id value for each xTR at site
<i>site-id</i>	Site-ID to group xTRs together

Command Mode

- /exec/configure /exec/configure/vrf

lisp mobility

[no] lisp mobility <dyn-eid-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP interface configuration commands
mobility	Configures to allow EID mobility on interface
<i>dyn-eid-name</i>	Name of the dynamic-EID to use

Command Mode

- /exec/configure/if-igp

lisp mobility test-liveness

[no] lisp mobility test-liveness

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP interface configuration commands
mobility	Configures to allow EID mobility on interface
test-liveness	Ping discovered dyn-eid hosts on this interface periodically to determine host liveness

Command Mode

- /exec/configure/if-igp

lisp mtu

[no] lisp mtu <mtu>

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
mtu	Configure the Max MTU value that LISP path will support
<i>mtu</i>	mtu

Command Mode

- /exec/configure

lisp security

[no] lisp security [strong]

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
security	Configure LISP-SEC on ITR or PITR
strong	(Optional) Reject Map-Replies without LISP-SEC signatures included

Command Mode

- /exec/configure /exec/configure/vrf

lisp site

```
{ [ no ] lisp site <site-name> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
site	Configures LISP sites in a map-server
<i>site-name</i>	Name your LISP site

Command Mode

- /exec/configure

lisp site

```
{ [ no ] lisp site <site-name> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
site	Configures LISP sites in a map-server
<i>site-name</i>	Name your LISP site

Command Mode

- /exec/configure/vrf

lisp smr-local-locators

[no] lisp smr-local-locators

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
smr-local-locators	Send SMR to all locators for in local site

Command Mode

- /exec/configure

lisp smr-locators

[no] lisp smr-locators

Syntax Description

no	(Optional) Negate a command or set its defaults
lisp	LISP global configuration commands
smr-locators	Send SMR to all RLOCs in locator-set for map-cache entry

Command Mode

- /exec/configure

lisp to

```
{ lisp-rig | rig } [ instance-id <iid> ] { <hostname> | { <eid> | <eid6> } } to { <ddt-hostname> | { <ddt> | <ddt6> } }
```

Syntax Description

lisp-rig	LISP-DDT Referral Internet Groper
rig	LISP-DDT Referral Internet Groper
instance-id	(Optional) Instance-ID of VPN EID resides in
<i>iid</i>	(Optional) 24-bit instance-ID value
<i>eid</i>	RIG on a IPv4 Endpoint ID (EID)
<i>hostname</i>	DNS name for Endpoint ID (EID)
to	Where to send the Map-Request
<i>ddt-hostname</i>	DNS name for DDT-node
<i>ddt</i>	DDT-node IPv4 address to send Map-Request to

Command Mode

- /exec

list

list [<index>]

Syntax Description

list	Re-list all or part of the explicit path entries
<i>index</i>	(Optional) List starting at entry index number

Command Mode

- /exec/configure/te/expl-path

list

list

Syntax Description

list	Re-list all of the attribute list entries
------	---

Command Mode

- /exec/configure/te/lsp-attr

listobject-boolean not

listobject-boolean <object-id> not

Syntax Description

listobject-boolean	Configure Object as member of tracking list
<i>object-id</i>	Tracked object
not	Negate Up status

Command Mode

- /exec/configure/tr-list-bool

listobject-weight weight threshold-weight

```
listobject-weight { <object-id> weight <weight-val> } | threshold-weight { weight-thresh { weightup
<up-weight> [ weightdown <down-weight> ] | weightdown <down-weight> [ weightup <up-weight> ] } } |
no threshold-weight weight-thresh
```

Syntax Description

no	Negate a command or set its defaults
listobject-weight	Configure Object as member of tracking list
<i>object-id</i>	Tracked Object
weight	Assign a weight to object
<i>weight-val</i>	Assign a weight to object
threshold-weight	Threshold parameters
weight-thresh	Weight threshold
weightup	Up threshold
<i>up-weight</i>	Up threshold weight
weightdown	(Optional) Down threshold
<i>down-weight</i>	(Optional) Down threshold weight

Command Mode

- /exec/configure/tr-list-thrw

listobject

[no] listobject <object-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
listobject	Configure Object as member of tracking list
<i>object-id</i>	Tracked Object

Command Mode

- /exec/configure/tr-list-thrw /exec/configure/tr-list-thrp /exec/configure/tr-list-bool

lldp

```
[no] lldp { holdtime <i0> | reinit <i1> | timer <i2> | portid-subtype <i3> | tlv-select { management-address |
port-description | port-vlan | power-management | system-capabilities | system-description | system-name |
dcbxp } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure global LLDP parameters
holdtime	Specify the holdtime (in sec) to be sent in packets
<i>i0</i>	holdtime in sec
reinit	Delay (in sec) for LLDP initialisation on any interface
<i>i1</i>	reinit in sec
timer	Specify the rate at which LLDP packets are sent (in sec)
<i>i2</i>	rate of packets in sec
portid-subtype	config portid subtype for LLDP TLV and SNMP MIBs
<i>i3</i>	0: long interface name (default), 1: short interface name
tlv-select	Selection of LLDP to send
management-address	Management Address TLV
port-description	Port Description TLV
port-vlan	Port Vlan ID TLV
power-management	IEEE 802.3 DTE Power via MDI TLV
system-capabilities	System Capabilities TLV
system-description	System Description TLV
system-name	System Name TLV
dcbxp	DCBXP TLVs

Command Mode

- /exec/configure

lldp eee rx_wake_time

[no] lldp eee { rx_wake_time <i0> | tx_wake_time <i1> }

Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure LLDP parameters
eee	Configure LLDP EEE parameters
rx_wake_time	Specify the EEE rx wake time
<i>i0</i>	EEE rx wake time
tx_wake_time	Specify the EEE tx wake time
<i>i1</i>	EEE tx wake time

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-gig-ether-all /exec/configure/if-gig-ether /exec/configure/if-eth-base /exec/configure/if-mgmt-ether

lldp receive

[no] lldp receive

Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure Interface LLDP parameters
receive	Enable LLDP reception on interface

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-gig-ether-all /exec/configure/if-gig-ether /exec/configure/if-eth-base /exec/configure/if-mgmt-ether

lldp tlv-select eee

[no] lldp tlv-select eee

Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure Interface LLDP parameters
tlv-select	Configure EEE parameter
eee	Enable/Disable LLDP EEE TLV

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-gig-ether-all /exec/configure/if-gig-ether /exec/configure/if-eth-base /exec/configure/if-mgmt-ether

lldp tlv-select management-address v4

[no] lldp tlv-select management-address { v4 | v6 }

Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure global LLDP parameters
tlv-select	Selection of LLDP to send
management-address	Management Address TLV
v4	Management Address TLV v4
v6	Management Address TLV v6

Command Mode

- /exec/configure

lldp tlv-set management-address

[no] lldp tlv-set management-address <ip-addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure Interface LLDP parameters
tlv-set	LLDP TLV configuration for interface
management-address	Management address to be sent in management-tlv of LLDPDU.
<i>ip-addr</i>	IP address in dotted decimal format i.i.i.i

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-gig-ether-all /exec/configure/if-gig-ether /exec/configure/if-eth-base /exec/configure/if-mgmt-ether

lldp tlv-set management-address ipv6

[no] lldp tlv-set management-address <ipv6-addr> ipv6

Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure Interface LLDP parameters
tlv-set	LLDP TLV configuration for interface
management-address	Management address to be sent in management-tlv of LLDPDU.
ipv6	IPV6

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-gig-ether-all /exec/configure/if-gig-ether /exec/configure/if-eth-base /exec/configure/if-mgmt-ether

lldp tlv-set vlan

[no] lldp tlv-set vlan [<vlan-id>]

Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure Interface LLDP parameters
tlv-set	LLDP TLV configuration for interface
vlan	VLAN-id whose SVI IP address should be used as management address in management-tlv of LLDPDU. Default is native VLAN.
<i>vlan-id</i>	(Optional) vlan-id within range of 1-4094

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-gig-ether-all /exec/configure/if-gig-ether /exec/configure/if-eth-base /exec/configure/if-mgmt-ether

lldp transmit

[no] lldp transmit

Syntax Description

no	(Optional) Negate a command or set its defaults
lldp	Configure Interface LLDP parameters
transmit	Enable LLDP transmission on interface

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-gig-ether-all /exec/configure/if-gig-ether /exec/configure/if-eth-base /exec/configure/if-mgmt-ether

load-balance

```
[no] load-balance { [ method { src { ip | ip-l4port <src-protocol> range <src-x> <src-y> } | dst { ip-dst | ip-l4port <dst-protocol> range <dst-x> <dst-y> } } | buckets <num> | mask-position <mask> ] + }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
load-balance	ITD Loadbalance
method	(Optional) ITD Loadbalance method
src	(Optional) Source based parameters
dst	(Optional) Destination based parameters
ip	(Optional) IP
ip-l4port	(Optional) IP and L4 port
<i>src-protocol</i>	(Optional) Protocol
range	(Optional) Match only packets in the range of port numbers
<i>src-x</i>	(Optional)
<i>src-y</i>	(Optional)
ip-dst	(Optional) IP
<i>dst-protocol</i>	(Optional) Protocol
<i>dst-x</i>	(Optional)
<i>dst-y</i>	(Optional)
buckets	(Optional) Used to create the buckets for traffic distribution, and it should be in powers of 2
<i>num</i>	(Optional) Loadbalance bucket number
mask-position	(Optional) Loadbalance mask position
<i>mask</i>	(Optional) Loadbalance mask position number range 0-31 for IPv4 and 0-127 for IPv6

Command Mode

- /exec/configure/itd

load-balance

```
[no] load-balance { [ method { src { ip | ip-l4port <src-protocol> range <src-x> <src-y> } | dst { ip-dst | ip-l4port <dst-protocol> range <dst-x> <dst-y> } } | buckets <num> | mask-position <mask> ] + }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
load-balance	Loadbalance
method	(Optional) Loadbalance method
src	(Optional) Source based parameters
dst	(Optional) Destination based parameters
ip	(Optional) IP
ip-l4port	(Optional) IP and L4 port
<i>src-protocol</i>	(Optional) Protocol
range	(Optional) Match only packets in the range of port numbers
<i>src-x</i>	(Optional)
<i>src-y</i>	(Optional)
ip-dst	(Optional) IP
<i>dst-protocol</i>	(Optional) Protocol
<i>dst-x</i>	(Optional)
<i>dst-y</i>	(Optional)
buckets	(Optional) Used to create the buckets for traffic distribution, and it should be in powers of 2
<i>num</i>	(Optional) Loadbalance bucket number
mask-position	(Optional) Loadbalance mask position
<i>mask</i>	(Optional) Loadbalance mask position number range 0-31 for IPv4 and 0-127 for IPv6

Command Mode

- /exec/configure/smarte

load-balance

```
[no] load-balance { [ method { src { ip | ip-l4port <src-protocol> range <src-x> <src-y> } | dst { ip-dst | ip-l4port <dst-protocol> range <dst-x> <dst-y> } } | buckets <num> | mask-position <mask> ] + }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
load-balance	PLB Loadbalance options
method	(Optional) Loadbalance method
src	(Optional) Source based parameters
dst	(Optional) Destination based parameters
ip	(Optional) IP
ip-l4port	(Optional) IP and L4 port
<i>src-protocol</i>	(Optional) Protocol
range	(Optional) Match only packets in the range of port numbers
<i>src-x</i>	(Optional)
<i>src-y</i>	(Optional)
ip-dst	(Optional) IP
<i>dst-protocol</i>	(Optional) Protocol
<i>dst-x</i>	(Optional)
<i>dst-y</i>	(Optional)
buckets	(Optional) Used to create the buckets for traffic distribution, and it should be in powers of 2
<i>num</i>	(Optional) Loadbalance bucket number
mask-position	(Optional) Loadbalance mask position
<i>mask</i>	(Optional) Loadbalance mask position number range 0-23 for IPv4 and 0-127 for IPv6

Command Mode

- /exec/configure/plb

load-balance port-channel

[no] load-balance port-channel

Syntax Description

no	(Optional) Negate a command or set its defaults
load-balance	Catena Loadbalance
port-channel	Port-Channel Method

Command Mode

- /exec/configure/itd-port-grp

load-balancing

load-balancing <load-bal> | no load-balancing [<load-bal>]

Syntax Description

no	Negate a command or set its defaults
load-balancing	Load balancing method
<i>load-bal</i>	Load balancing method

Command Mode

- /exec/configure/if-eth-any/glbp

load-interval

load-interval <interval> | no load-interval [<interval1>]

Syntax Description

no	Negate a command or set its defaults
load-interval	Specify interval for load calculation for an interface
<i>interval</i>	Load interval delay in seconds
<i>interval1</i>	(Optional) Load interval delay in seconds

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

load-interval

load-interval <interval> | no load-interval [<interval1>]

Syntax Description

no	Negate a command or set its defaults
load-interval	Specify interval for load calculation for an interface
<i>interval</i>	Load interval delay in seconds
<i>interval1</i>	(Optional) Load interval delay in seconds

Command Mode

- /exec/configure/if-vlan-common

load-interval counter

load-interval counter <counter_val> <interval> | no load-interval counter <counter_val> [<interval1>]

Syntax Description

no	Negate a command or set its defaults
load-interval	Specify interval for load calculation for an interface
counter	Specify counter for this load interval
<i>counter_val</i>	Specify counter for this load interval
<i>interval</i>	Load interval delay in seconds
<i>interval1</i>	(Optional) Load interval delay in seconds

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

load-interval counter

load-interval counter <counter_val> <interval> | no load-interval counter <counter_val> [<interval1>]

Syntax Description

no	Negate a command or set its defaults
load-interval	Specify interval for load calculation for an interface
counter	Specify counter for this load interval
<i>interval</i>	Load interval delay in seconds
<i>counter_val</i>	Specify counter for this load interval
<i>interval1</i>	(Optional) Load interval delay in seconds

Command Mode

- /exec/configure/if-vlan-common

load

load <uri0> [<s0>]

Syntax Description

load	Load system image
<i>uri0</i>	Enter image URI
<i>s0</i>	(Optional) Options

Command Mode

- /exec

load

load <uri0>

Syntax Description

load	Load system image
<i>uri0</i>	Enter image URI

Command Mode

- /exec

load

load <uri0> [<s0>]

Syntax Description

load	Load system image
<i>uri0</i>	Enter image URI
<i>s0</i>	(Optional) Options

Command Mode

- /exec

local-as

local-as <asn> | no local-as [<asn>]

Syntax Description

no	Negate a command or set its defaults
local-as	Specify the local-as for this vrf
<i>asn</i>	AS number

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf

local-as

```
{ local-as <asn> [ no-prepend [ replace-as [ dual-as ] ] ] } | { { no | default } local-as [ <asn> ] }
```

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
local-as	Specify the local-as number for the eBGP neighbor
<i>asn</i>	Autonomous System Number
no-prepend	(Optional) Do not prepend the local-as number to updates from the eBGP neighbor
replace-as	(Optional) Prepend only the local-as number to updates to eBGP neighbor
dual-as	(Optional) Connect using either the local-as number or the real as

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

local-label prefix

```
[no] { [ vrf { <vrf-name> | <vrf-known-name> } ] local-label <static-inlabel> prefix { <prefix> <mask> | <prefix-mask> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	(Optional) VPN Routing/Forwarding instance name
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
local-label	Configure local label assignment and forwarding
<i>static-inlabel</i>	Label Value
prefix	For a given prefix
<i>prefix</i>	Destination prefix
<i>mask</i>	Destination prefix mask
<i>prefix-mask</i>	Destination prefix/mask

Command Mode

- /exec/configure/mpls_static/ipv4

local-label prefix

```
[no] { [ vrf { <vrf-name> | <vrf-known-name> } ] local-label <static-inlabel> prefix { <ipv6-prefix-mask> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	(Optional) VPN Routing/Forwarding instance name
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
local-label	Configure local label assignment and forwarding
<i>static-inlabel</i>	Label Value
prefix	For a given prefix

Command Mode

- /exec/configure/mpls_static/ipv6

locator-led

[no] locator-led { chassis | module <module> | fan <fan_num> }

Syntax Description

no	(Optional) Negate a command or set its defaults
locator-led	blink locator led on device
chassis	blink chassis led
module	blink module led
<i>module</i>	please enter the module number
fan	blink Fan led
<i>fan_num</i>	fan number

Command Mode

- /exec

lockdown

[no] lockdown

Syntax Description

no	(Optional) Negate a command or set its defaults
lockdown	Lockdown the LSP--disable reoptimization

Command Mode

- /exec/configure/te/lsp-attr

log-adjacency-changes

[no] log-adjacency-changes [detail]

Syntax Description

no	(Optional) Negate a command or set its defaults
log-adjacency-changes	Log changes in adjacency state
detail	(Optional) Notify all state changes

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

log-adjacency-changes

[no] log-adjacency-changes

Syntax Description

no	(Optional) Negate a command or set its defaults
log-adjacency-changes	Log changes in adjacency state

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

log-adjacency-changes

{ [no] log-adjacency-changes } | { [no] [eigrp] log-neighbor-changes }

Syntax Description

no	(Optional) Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
log-adjacency-changes	Log changes in adjacency state
log-neighbor-changes	Enable/Disable IP-EIGRP neighbor logging

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

log-adjacency-changes

[no] log-adjacency-changes

Syntax Description

no	(Optional) Negate a command or set its defaults
log-adjacency-changes	Log changes in adjacency state

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

log-adjacency-changes

[no] log-adjacency-changes [detail]

Syntax Description

no	(Optional) Negate a command or set its defaults
log-adjacency-changes	Log changes in adjacency state
detail	(Optional) Notify all state changes

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

log-event-type

[no] [eigrp] log-event-type [dual] [xmit] [transport]

Syntax Description

no	(Optional) Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
log-event-type	Set event types logged
dual	(Optional) Log DUAL events
xmit	(Optional) Log transmission events
transport	(Optional) Log transport events

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

log-neighbor-changes

[no] log-neighbor-changes

Syntax Description

no	(Optional) Negate a command or set its defaults
log-neighbor-changes	Log a message for neighbor up/down event

Command Mode

- /exec/configure/router-bgp/vrf-cmds

log-neighbor-changes

[no | default] log-neighbor-changes [disable]

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
log-neighbor-changes	Log message for neighbor up/down event
disable	(Optional) Disable logging of neighbor up/down event

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

log-neighbor-warnings

```
{ { [ eigrp ] log-neighbor-warnings [ <interval> ] } | { no [ eigrp ] log-neighbor-warnings [ <interval> ] } }
```

Syntax Description

no	Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
log-neighbor-warnings	Enable/Disable IP-EIGRP neighbor warnings
<i>interval</i>	(Optional) Neighbor warning interval in seconds

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

logging

```
[no] logging { lsp { path-errors | preemption | reservation-errors | setups | teardowns } | tunnel { lsp-selection | path change } } | logging { lsp { path-errors | preemption | reservation-errors | setups | teardowns } | tunnel { lsp-selection | path change } }
```

Syntax Description

no	Negate a command or set its defaults
logging	Trap logging configuration
lsp	LSP-specific traps logging configuration
path-errors	Log LSP Path Error traps
preemption	Log LSP Preemption traps
reservation-errors	Log LSP Reservation Error traps
setups	Log LSP Establishment Traps
teardowns	Log LSP Teardown Traps
tunnel	Tunnel-specific traps logging configuration
lsp-selection	Log Tunnel LSP Selection traps
path	Log Tunnel Path-related traps
change	Log Tunnel Path change traps

Command Mode

- /exec/configure/te

logging

[no] logging { neighbor-changes |

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Enable LDP logging
neighbor-changes	Log LDP neighbor state changes

Command Mode

- /exec/configure/ldp

logging abort

logging abort

Syntax Description

logging	Modify message logging facilities
abort	Flushes cached data without committing and releases the lock

Command Mode

- /exec/configure

logging clear_console

logging clear_console

Syntax Description

logging	Exec logging commands
clear_console	Clear Console

Command Mode

- /exec

logging commit

logging commit

Syntax Description

logging	Modify message logging facilities
commit	Commits cached data (of all msg types) and releases the lock

Command Mode

- /exec/configure

logging console

[no] logging console [<i0>]

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
console	Set console logging
<i>i0</i>	(Optional) 0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging debug

logging debug

Syntax Description

logging	Exec logging commands
debug	Debug logging

Command Mode

- /exec

logging distribute

[no] logging distribute

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
distribute	Enables/disables fabric distribution using cfs.

Command Mode

- /exec/configure

logging drop threshold

```
logging drop { threshold-packets <threshold-in-packets> | threshold-bytes <threshold-in-bytes> } [ level
<level-value> ]
```

Syntax Description

logging	set logging for copp class
drop	logging for copp drops
threshold-packets	threshold value for dropped packets
threshold-bytes	threshold value for dropped bytes
level	(Optional) syslog level
<i>level-value</i>	(Optional) specify the logging level between 1-7

Command Mode

- /exec/configure/pmap/class

logging drop threshold

[no] logging drop { threshold-packets <threshold-in-packets> | threshold-bytes <threshold-in-bytes> } [level <level-value>]

Syntax Description

no	Negate a command or set its defaults
logging	set logging for copp class
drop	logging for copp drops
threshold-packets	threshold value for dropped packets
threshold-bytes	threshold value for dropped bytes
level	(Optional) syslog level
<i>level-value</i>	(Optional) specify the logging level between 1-7

Command Mode

- /exec/configure/pmap/class

logging event link enable

[no] logging event { link-status | trunk-status } { enable | default }

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Configure logging for interface
event	Interface events
link-status	UPDOWN and CHANGE messages
trunk-status	TRUNK status messages
enable	To enable logging overriding port level configuration
default	default logging configuration used by interfaces not explicitly configured

Command Mode

- /exec/configure

logging event port link-status

logging event port link-status

Syntax Description

logging	Configure logging for interface
event	Interface events
port	Port level events
link-status	UPDOWN and CHANGE messages

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel

logging event port link-status

[no] logging event port link-status

Syntax Description

no	Negate a command or set its defaults
logging	Configure logging for interface
event	Interface events
port	Port level events
link-status	UPDOWN and CHANGE messages

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel

logging event port link-status

logging event port link-status [default] | no logging event port link-status

Syntax Description

no	Negate a command or set its defaults
logging	Configure logging for interface
event	Interface events
port	Port level events
link-status	UPDOWN and CHANGE messages
default	(Optional) Use the global default value

Command Mode

- /exec/configure/if-ether-sub /exec/configure/if-port-channel-sub /exec/configure/if-gig-ether-sub /exec/configure/if-loopback /exec/configure/if-remote-ethernet-sub /exec/configure/if-ether-sub-p2p

logging event port link-status default

logging event port link-status default

Syntax Description

logging	Configure logging for interface
event	Interface events
port	Port level events
link-status	UPDOWN and CHANGE messages
default	Use the global default value

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel

logging event port trunk-status

logging event port trunk-status

Syntax Description

logging	Configure logging for interface
event	Interface events
port	Port level events
trunk-status	TRUNK status messages

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel

logging event port trunk-status

[no] logging event port trunk-status

Syntax Description

no	Negate a command or set its defaults
logging	Configure logging for interface
event	Interface events
port	Port level events
trunk-status	TRUNK status messages

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel

logging event port trunk-status default

logging event port trunk-status default

Syntax Description

logging	Configure logging for interface
event	Interface events
port	Port level events
trunk-status	TRUNK status messages
default	Use the global default value

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel

logging flow-mod

[no] logging flow-mod

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Enable logging
flow-mod	Enable logging for flow-modify

Command Mode

- /exec/configure/openflow/switch

logging flow-mod

[no] logging flow-mod

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Enable logging
flow-mod	Enable logging for flow-modify

Command Mode

- /exec/configure/openflow/switch/sub-switch

logging flush

logging flush

Syntax Description

logging	Exec logging commands
flush	Flushing logging

Command Mode

- /exec

logging invalid-username

[no] logging invalid-username

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	One Platform logging
invalid-username	Display invalid usernames in ONE-P log messages

Command Mode

- /exec/configure/onep

logging level

[no] logging level { { ipv6 icmp } | icmpv6 } <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ipv6	Configure IPv6 features
icmp	ICMPv6 Commands
icmpv6	ICMPv6 Commands
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level

```
{ logging level { auth <i1> | authpriv <i2> | cron <i3> | daemon <i4> | ftp <i5> | kernel <i6> | local0 <i7> |
local1 <i8> | local2 <i9> | local3 <i10> | local4 <i11> | local5 <i12> | local6 <i13> | local7 <i14> | lpr <i15>
| mail <i16> | news <i17> | syslog <i18> | user <i19> | uucp <i20> } | no logging level { auth [ <i1> ] | authpriv
[ <i2> ] | cron [ <i3> ] | daemon [ <i4> ] | ftp [ <i5> ] | kernel [ <i6> ] | local0 [ <i7> ] | local1 [ <i8> ] | local2
[ <i9> ] | local3 [ <i10> ] | local4 [ <i11> ] | local5 [ <i12> ] | local6 [ <i13> ] | local7 [ <i14> ] | lpr [ <i15>
] | mail [ <i16> ] | news [ <i17> ] | syslog [ <i18> ] | user [ <i19> ] | uucp [ <i20> ] } }
```

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
auth	Set level for Authorization System
<i>i1</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
authpriv	Set level for Authorization (Private) system
<i>i2</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
cron	Set level for Cron/at facility
<i>i3</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
daemon	Set level for System daemons
<i>i4</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
ftp	Set level for File Transfer System
<i>i5</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
kernel	Set level for kernel
<i>i6</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local0	Set level for Local use daemons
<i>i7</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local1	Set level for Local use daemons
<i>i8</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local2	Set level for Local use daemons
<i>i9</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local3	Set level for Local use daemons

<i>i10</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local4	Set level for Local use daemons
<i>i11</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local5	Set level for Local use daemons
<i>i12</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local6	Set level for Local use daemons
<i>i13</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
local7	Set level for Local use daemons
<i>i14</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
lpr	Set level for Line Printer System
<i>i15</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
mail	Set level for Mail system
<i>i16</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
news	Set level for USENET news
<i>i17</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
syslog	Set level for Internal Syslog Messages
<i>i18</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
user	Set level for User Process
<i>i19</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
uucp	Set level for Unix-to-Unix copy system
<i>i20</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level

[no] logging level { { otv isis } | isis_otv } <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
otv	Set syslog filter level for OTV
isis	Set syslog filter level for IS-IS
isis_otv	Show OTV ISIS logging configuration
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level

[no] logging level { xml server | xmlma } <i>i0</i>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
xml	xml agent
server	xml agent server
xmlma	xml master agent. Same as combination of keywords xml server
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level aaa

logging level aaa <i0> | no logging level aaa [<i0>]

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
aaa	Set level for aaa syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level aclmgr

[no] logging level aclmgr <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
aclmgr	Set level for aclmgr syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level adbm

[no] logging level adbm <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
adbm	Set level for adbm syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level adjmgr

[no] logging level adjmgr <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
adjmgr	Set syslog filter level for Adjacency Manager
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level all

{ logging level { all <i0> } | no logging level { all [<i0>] } }

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
all	Set level for all facilities
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level amt

[no] logging level amt <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
amt	Set syslog filter level for AMT
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level arp

{ logging level arp <level> } | { no logging level arp [<level>] }

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
arp	Set syslog filter level for ARP
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ascii-cfg

[no] logging level ascii-cfg <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ascii-cfg	Set logging level for ascii-cfg
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level bfd

[no] logging level bfd <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
bfd	Set level for bfd syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level bgp

[no] logging level bgp <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
bgp	Set syslog filter level for BGP
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level bloggerd

[no] logging level bloggerd <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
bloggerd	Set level for BloggerD syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level bootvar

[no] logging level bootvar <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
bootvar	Set level for bootvar
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level callhome

logging level callhome <i0> | no logging level callhome [<i0>]

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
callhome	Callhome syslog level
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level capability

[no] logging level capability <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
capability	Set syslog level for mig utils daemon
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level catena

[no] logging level catena <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
catena	Set level for catena syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level cdp

logging level cdp <i0> | no logging level cdp [<i0>]

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
cdp	Set level for CDP syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level cert

[no] logging level { cert-enroll <i0> | cert_enroll <i1> }

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
cert-enroll	Cert-enroll syslog level
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
cert_enroll	Cert-enroll syslog level
<i>i1</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level cfs

[no] logging level cfs <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level clis

[no] logging level clis <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
clis	Set syslog filter level for CLIS
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level clk_mgr

[no] logging level clk_mgr <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
clk_mgr	Set level for clock manager syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level confcheck

{ logging level confcheck <i0> | no logging level confcheck [<i0>] }

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level copp

logging level copp <i0> | no logging level copp [<i0>]

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
copp	Set level for copp syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level core

{ logging level core <i0> | no logging level core [<i0>] }

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
core	core daemon syslog level
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level cts

[no] logging level cts <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
cts	Set level for cts syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level device_test

[no] logging level device_test <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
device_test	Set level for GOLD Device Test syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level dhclient

[no] logging level dhclient <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
dhclient	Set level for dhcp client syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level dhcp_snoop

logging level dhcp_snoop <level> | no logging level dhcp_snoop [<level>]

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
dhcp_snoop	Set level for dhcp snoop syslog messages
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level diagclient

[no] logging level diagclient <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
diagclient	Set level for GOLD DiagClient syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level diagmgr

[no] logging level diagmgr <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
diagmgr	Set level for GOLD DiagMgr syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level dot1x

[no] logging level dot1x <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
dot1x	Set level for dot1x syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ecp

[no] logging level ecp <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ecp	Set syslog filter level for ECP
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level eigrp

[no] logging level eigrp [<eigrp-ptag>] <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
eigrp	Set syslog filter level for EIGRP
<i>eigrp-ptag</i>	(Optional) Process tag
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level eltm

logging level eltm <i0> | no logging level eltm

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
eltm	Set level for eltm syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ethdstats

[no] logging level { ethdstats <i0> | eth_dstats <i0> }

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ethdstats	delta statistics syslog level
eth_dstats	delta statistics syslog level
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ethpm

[no] logging level ethpm <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ethpm	Set level for ethpm syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ethpm link

[no] logging level ethpm { link-up | link-down } <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ethpm	Set level for ethpm syslog messages
link-up	Configure logging level for link up syslog messages
link-down	Configure logging level for link down syslog messages
<i>level</i>	Logging Level

Command Mode

- /exec/configure

logging level evb

[no] logging level evb <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
evb	Set syslog filter level for EVB
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level evmc

[no] logging level evmc <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
evmc	Set level for evmc syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level evmed

[no] logging level evmed <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
evmed	Set level for evmed syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level evms

[no] logging level evms <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
evms	Set level for evms syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level fabric forwarding

[no] logging level fabric forwarding <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
fabric	Fabric
forwarding	Fabric Forwarding Protocol: Host Mobility Manager (HMM)
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level feature-mgr

{ logging level feature-mgr <i0> | no logging level feature-mgr [<i0>] }

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
feature-mgr	Set feature manager syslog level
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level fs-daemon

```
{ logging level fs-daemon <i0> | no logging level fs-daemon [ <i0> ] }
```

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
fs-daemon	fs daemon syslog level
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level glbp

[no] logging level glbp <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
glbp	Set level for glbp syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level gpixm

[no] logging level gpixm <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
gpixm	Set level for global-pixm syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level hsrp

[no] logging level hsrp <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
hsrp	Set level for hsrp syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level icam

[no] logging level icam <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
icam	Set level for icam syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level igmp

[no] logging level [ip] igmp <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ip	(Optional) Configure IP features
igmp	IGMP global configuration commands
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level im

[no] logging level { im <i0> | ifmgr <i0> }

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
im	Set level for im syslog messages
ifmgr	Set level for im syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level imp

[no] logging level imp <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
imp	Set level for imp syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level interface-vlan

[no] logging level interface-vlan <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
interface-vlan	Set level for interface vlan syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ip pim

[no] logging level ip pim <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ip	Configure IP features
pim	Set syslog filter level for PIM
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ip sla responder

[no] logging level ip sla responder <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ip	
sla	Service Level Agreement (SLA)
responder	Set level for sla-responder syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ip sla sender

[no] logging level ip sla sender <*i0*>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ip	
sla	Service Level Agreement (SLA)
sender	Set level for sla-sender syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ipconf

[no] logging level ipconf { ipv6 <i0> | <i1> }

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ipconf	Set level for ipconf syslog messages
ipv6	Set level for ipconf syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
<i>i1</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ipfib

logging level ipfib <i0> | no logging level ipfib

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ipfib	Set level for ipfib syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ipqos

[no] logging level { ipqos | IPQOSMGR } <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ipv6 pim

[no] logging level ipv6 pim <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ipv6	Configure IPv6 features
pim	Set syslog filter level for PIM6
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level iscm

[no] logging level iscm <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
iscm	Set level for iscm syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level iscm

[no] logging level iscm <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
iscm	Set level for iscm syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level isis

[no] logging level isis <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
isis	Set syslog filter level for IS-IS
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level keystore

logging level { keystore | sksd } <i0> | no logging level { keystore | sksd } [<i0>]

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
keystore	Keystore syslog level
sksd	Keystore/sksd syslog level
<i>i0</i>	

Command Mode

- /exec/configure

logging level l3vm

[no] logging level l3vm <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
l3vm	Set syslog filter level for L3VM
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level lacp

[no] logging level lacp <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
lacp	Set level for lacp syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ldap

logging level ldap <i0> | no logging level ldap [<i0>]

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ldap	Set level for ldap syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level license

logging level { license | licmgr } <i0> | no logging level { license | licmgr } [<i0>]

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
license	Licensing syslog level
licmgr	Licensing syslog level
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level lim

[no] logging level lim <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
lim	Set level for lim syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level lisp

[no] logging level lisp <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
lisp	Set logging level for LISP
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level lldp

[no] logging level lldp <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
lldp	Set level for lldp syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level mmode

[no] logging level mmode <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
mmode	Set level for maintenance mode syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level module

[no] logging level module <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
module	Set level for module(linecard) manager syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level monitor

[no] logging level monitor <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
monitor	Set level for ethernet span syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level mpls ldp

[no] logging level mpls ldp <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
mpls	Set level for MPLS syslog messages
ldp	Set level for LDP syslog messages
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level mpls manager

[no] logging level mpls manager <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
mpls	Set level for MPLS syslog messages
manager	Set level for MPLS manager syslog messages
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level mpls static

[no] logging level mpls static <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
mpls	Set level for MPLS syslog messages
static	Set level for MPLS Static syslog messages
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level mpls switching

[no] logging level mpls switching <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
mpls	Set level for MPLS syslog messages
switching	Set level for mpls switching syslog messages
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level mpls traffic-eng

[no] logging level mpls traffic-eng <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
mpls	Set level for MPLS syslog messages
traffic-eng	Set level for Traffic Engineering syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level msdp

[no] logging level [ip] msdp <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ip	(Optional) Configure IP features
msdp	Set syslog filter level for MSDP
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level mvsh

[no] logging level mvsh <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
mvsh	Set level for mvsh syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level nat

logging level nat <i0> | no logging level nat [<i0>]

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
nat	Set level for NAT syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level nbm

logging level nbm <i0> | no logging level nbm

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
nbm	Set level for nbm syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level netstack

{ logging level netstack <level> } | { no logging level netstack [<level>] }

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
netstack	Set syslog filter level for Netstack
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level nfm

[no] logging level nfm <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
nfm	Set level for nfm syslog messages
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ngoam

[no] logging level ngoam <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ngoam	Set level for oam logging messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure handle function sdstub_syslog sdwrap args-legacy

logging level ntp

[no] logging level ntp <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ntp	Set syslog filter level for NTP
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level nve

[no] logging level nve <inp>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
nve	Display NVE information
<i>inp</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level nxsdk

[no] logging level nxsdk <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
nxsdk	NXOS SDK
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level onep

[no] logging level onep <0-7>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
onep	One Platform
0-7	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level openflow

[no] logging level openflow <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
openflow	Set level for OpenFlow agent syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level orib

[no] logging level orib <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
orib	Set syslog filter level for ORIB
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ospf

[no] logging level ospf <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ospf	Set syslog filter level for OSPF
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ospfv3

[no] logging level ospfv3 <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ospfv3	Set syslog filter level for OSPFv3
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level otm

[no] logging level otm <i0>

Syntax Description

logging	Modify message logging facilities
level	Facility parameter for syslog messages
otm	Set level for otm syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level otv

[no] logging level otv <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
otv	Set syslog filter level for OTV
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level pfstat

logging level pfstat <i0> | no logging level pfstat

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
pfstat	Set level for pfstat syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level pim

[no] logging level pim <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
pim	Set syslog filter level for PIM
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level pim6

[no] logging level pim6 <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
pim6	Set syslog filter level for PIM6
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level pixm

[no] logging level pixm <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
pixm	Set level for vdc-local-pixm syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level pktmgr

[no] logging level pktmgr <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
pktmgr	Set syslog filter level for Packet manager
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level platform

[no] logging level platform <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
platform	platform manager syslog level
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level plbm

[no] logging level plbm <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
plbm	Set level for plbm syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level plcmgr

[no] logging level { plcmgr | ipplc } <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level pltfm_config

[no] logging level pltfm_config <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
pltfm_config	Set level for pltfm_config syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level plugin

{ logging level plugin <i0> | no logging level plugin [<i0>] }

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
plugin	Set level for plugin syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level poap

[no] logging level poap <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
poap	Set level for poap syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level poed

[no] logging level poed <i0> | no logging level poed [<i0>]

Syntax Description

no	(Optional) Negate a command or set its default
logging	Show logging configuration and contents of logfile
level	Show facility logging configuration
poed	Show PoE Daemon Logging Configuration
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level port-profile

logging level port-profile <i0> | no logging level port-profile [<i0>]

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
port-profile	Set level for port-profile syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level port-security

logging level port-security <i0> | no logging level port-security [<i0>]

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
port-security	Set level for port-security syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level port_client

[no] logging level port_client <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
port_client	Set level for port_client syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level port_lb

[no] logging level { port_lb <i0> | diag_port_lb <i0> }

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
port_lb	Set level for Diagnostic Port Loopback Test syslog messages
diag_port_lb	Set level for Diagnostic Port Loopback Test syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level private-vlan

[no] logging level private-vlan <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
private-vlan	Set level for private VLAN syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level ptp

[no] logging level ptp <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
ptp	Set level for ptp syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level radius

logging level radius <i0> | no logging level radius [<i0>]

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
radius	RADIUS syslog level
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level res_mgr

[no] logging level res_mgr <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
res_mgr	Set level for res_mgr syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level rip

[no] logging level rip <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
rip	Set syslog filter level for RIP
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level rpm

[no] logging level rpm <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
rpm	Set syslog filter level for RPM
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level rsvp

[no] logging level rsvp <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
rsvp	Set level for RSVP syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level scheduler

[no] logging level scheduler <i>i0</i>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
scheduler	Set logging level for scheduler
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level security

logging level { security | securityd } <i0> | no logging level { security | securityd } [<i0>]

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
security	Security syslog level
securityd	Security syslog level
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level session-mgr

logging level session-mgr <i0> | no logging level session-mgr [<i0>]

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
session-mgr	Set level for session-manager syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level sflow

[no] logging level sflow <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
sflow	Set level for sFlow syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level smartc

[no] logging level smartc <i>i0</i>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
smartc	Set level for smartc syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level smm

[no] logging level smm <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
smm	Set logging level for Shared Memory Manager
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level snmpd

[no] logging level snmpd <i>i0</i>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
snmpd	Set level for SNMP syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level snmpmib_proc

[no] logging level snmpmib_proc <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
snmpmib_proc	Set level for snmpmib_proc syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level spanning

[no] logging level { spanning-tree } <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
spanning-tree	Set level for stp syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level stripcl

[no] logging level stripcl <log-level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
stripcl	Set level for stripcl syslog messages
<i>log-level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level sysmgr

```
{ logging level sysmgr <i0> | no logging level sysmgr [ <i0> ] }
```

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level tacacs

logging level tacacs <i0> | no logging level tacacs [<i0>]

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
tacacs	TACACS+ syslog level
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level tamnw

[no] logging level tamnw <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
tamnw	Set level for tamnw syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level telemetry

[no] logging level telemetry <level>

Syntax Description

no	(Optional) Negate a command or set its default
logging	Modify message logging facilities
level	Facility parameter for syslog messages
telemetry	Set syslog filter level for telemetry
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level track

[no] logging level track <*i0*>

Syntax Description

logging	Modify message logging facilities
level	Facility parameter for syslog messages
track	Set level for track syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level tunnel

logging level tunnel <i0> | no logging level tunnel [<i0>]

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
tunnel	Set level for tunnel syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level u6rib

[no] logging level u6rib <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
u6rib	Set syslog filter level for U6RIB
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level udd

[no] logging level udd <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
udd	Set level for udd syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level urib

[no] logging level urib <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
urib	Set syslog filter level for URIB
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level vdc_mgr

[no] logging level vdc_mgr <i0>

Syntax Description

logging	Modify message logging facilities
level	Facility parameter for syslog messages
vdc_mgr	Set level for vdc_mgr syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level virtual-service

[no] logging level virtual-service <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
virtual-service	Set level for virtual service syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level vmm

[no] logging level vmm <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
vmm	Set level for vmm syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level vmtracker

[no] logging level vmtracker <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
vmtracker	Set level for vmtracker syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level vpc

[no] logging level vpc <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
vpc	Set level for vPC syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level vrrp

[no] logging level { vrrp-cfg <cfg_level_num> | vrrp-eng <eng_level_num> }

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
vrrp-cfg	Set level for vrrp configuration
<i>cfg_level_num</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
vrrp-eng	Set level for vrrp engine
<i>eng_level_num</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level vrrpv3

[no] logging level { vrrpv3 <level> }

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
vrrpv3	Set level for vrrpv3 configuration
<i>level</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level vshd

[no] logging level vshd <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging level xbar

[no] logging level xbar <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
level	Facility parameter for syslog messages
xbar	xbar syslog level
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging logfile

```
{ logging logfile <s0> <i0> [ size <i1> ] | no logging logfile [ <s0> <i0> [ size <i1> ] ] }
```

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
logfile	Set File logging
<i>s0</i>	Enter the logfile name
<i>i0</i>	0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
size	(Optional) Set logfile size
<i>i1</i>	(Optional) Enter the logfile size in bytes

Command Mode

- /exec/configure

logging max_filesize

logging max_filesize <i0>

Syntax Description

logging	Exec logging commands
max_filesize	Increase default debug logfile size
<i>i0</i>	

Command Mode

- /exec

logging max_messages

logging max_messages <i0>

Syntax Description

logging	Exec logging commands
max_messages	Increase maximum syslogd message buffer size
<i>i0</i>	

Command Mode

- /exec

logging message interface type ethernet

logging message interface type ethernet <info> | no logging message interface type ethernet <info>

Syntax Description

no	Negate a command or set its defaults
logging	Configure logging for interface
message	Interface events
interface	Interface level events
type	Interface type
ethernet	Ethernet interfaces
<i>info</i>	Field Names to be added to interface syslog

Command Mode

- /exec/configure

logging module

[no] logging module [<i0>]

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
module	Set module(linecard) logging
<i>i0</i>	(Optional) 0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging monitor

[no] logging monitor [<i0>]

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
monitor	Set terminal line(monitor) logging level
<i>i0</i>	(Optional) 0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug

Command Mode

- /exec/configure

logging origin-id

```
[no] logging origin-id { hostname | ip <ip0> | string <s0> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
origin-id	Enable origin information for Remote Syslog Server
hostname	Use hostname as origin-id of logging messages
ip	Use ip address as origin-id of logging messages
<i>ip0</i>	Hostname/IPv4/IPv6 address
string	Use text string as origin-id of logging messages
<i>s0</i>	Enter string to append to the front of syslog msgs

Command Mode

- /exec/configure

logging reconcile

```
logging reconcile { all [ force ] | files <i0> | vtys <i1> | dev <s0> }
```

Syntax Description

logging	Modify message logging facilities
reconcile	Reconcile the internal data structures in syslogd, only use in console connection when all VTYS are closed
all	Reconcile all VTY elements in Files array and VTY list - only supported in console
force	(Optional) Reconcile all VTY elements in Files array and VTY list - force to run in VTYS or console
files	Reconcile specific element in Files array
<i>i0</i>	Enter Files array index to reconcile
vtys	Reconcile specific element in VTY list
<i>i1</i>	Enter VTY list index to reconcile
dev	Reconcile specific dev elements in Files array and VTY list
<i>s0</i>	Enter the dev name to reconcile

Command Mode

- /exec/configure

logging server

```
[no] logging server <host0> [ [ <i1> ] [ port <port> ] [ use-vrf { <vrf-name> | <vrf-known-name> } | facility
{ auth | authpriv | cron | daemon | ftp | kernel | local0 | local1 | local2 | local3 | local4 | local5 | local6 | local7
| lpr | mail | news | syslog | user | uucp } ] + ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
server	Enable forwarding to Remote Syslog Server
<i>host0</i>	Hostname/IPv4/IPv6 address of the Remote Syslog Server
<i>i1</i>	(Optional) 0-emerg 1-alert 2-crit 3-err 4-warn 5-notif 6-inform 7-debug
port	(Optional) Destination Port when forwarding to remote server
<i>port</i>	(Optional) Range from 1 - 65535(Default 514)
use-vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
facility	(Optional) Facility to use when forwarding to server
auth	(Optional) Use auth facility
authpriv	(Optional) Use authpriv facility
cron	(Optional) Use Cron/at facility
daemon	(Optional) Use daemon facility
ftp	(Optional) Use file transfer system facility
kernel	(Optional) Use kernel facility
local0	(Optional) Use local0 facility
local1	(Optional) Use local1 facility
local2	(Optional) Use local2 facility
local3	(Optional) Use local3 facility
local4	(Optional) Use local4 facility
local5	(Optional) Use local5 facility
local6	(Optional) Use local6 facility

local7	(Optional) Use local7 facility
lpr	(Optional) Use lpr facility
mail	(Optional) Use mail facility
news	(Optional) Use USENET news facility
syslog	(Optional) Use syslog facility
user	(Optional) Use user facility
uucp	(Optional) Use Unix-to-Unix copy system facility

Command Mode

- /exec/configure

logging source-interface

{ logging source-interface <interface> | no logging source-interface }

Syntax Description

no	Negate a command or set its defaults
logging	Modify message logging facilities
source-interface	Enable Source-Interface for Remote Syslog Server
<i>interface</i>	Source interface name

Command Mode

- /exec/configure

logging timestamp

[no] logging timestamp { microseconds | milliseconds | seconds }

Syntax Description

no	(Optional) Negate a command or set its defaults
logging	Modify message logging facilities
timestamp	Set logging timestamp granularity
microseconds	Timestamp in micro-seconds
milliseconds	Timestamp in milli-seconds
seconds	Timestamp in seconds (Default)

Command Mode

- /exec/configure

login on-failure log

[no] login on-failure log

Syntax Description

no	(Optional) Negate a command or set its defaults
login	login
on-failure	Set options for failed login attempt
log	Generate syslogs on failure logins

Command Mode

- /exec/configure

login on-success log

[no] login on-success log

Syntax Description

no	(Optional) Negate a command or set its defaults
login	login
on-success	Set options for successful login attempt
log	Generate syslogs on successful logins

Command Mode

- /exec/configure

logit

logit <log>

Syntax Description

logit	Add
<i>log</i>	Specify

Command Mode

- /exec

logout-warning

{ logout-warning <i0> | no logout-warning [<i0>] }

Syntax Description

no	Negate a command or set its defaults
logout-warning	Configure logout warning
<i>i0</i>	Enter logout warning time in seconds

Command Mode

- /exec/configure/line

low-memory exempt

[no | default] low-memory exempt

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
low-memory	Behaviour
exempt	Do

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

Ishow

Ishow

Syntax Description

Ishow	display this instance of credential
-------	-------------------------------------

Command Mode

- /exec/configure/dot1x-cred

Ishow

Ishow

Syntax Description

Ishow	local show: displays config of current interface
-------	--

Command Mode

- /exec/configure/if-igp

lsp-gen-interval

lsp-gen-interval <max-wait> [<initial-wait> <second-wait>] | no lsp-gen-interval <max-wait> [<initial-wait> <second-wait>]

Syntax Description

no	Negate a command or set its defaults
lsp-gen-interval	Configure LSP generation interval
<i>max-wait</i>	Maximum wait between trigger and LSP generation (milli-secs)
<i>initial-wait</i>	(Optional) Initial wait between trigger and LSP generation (milli-secs)
<i>second-wait</i>	(Optional) Second wait used in LSP generation (milli-secs) during backoff

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

lsp-gen-interval

lsp-gen-interval <level> <max-wait> [<initial-wait> <second-wait>] | no lsp-gen-interval <level> <max-wait> [<initial-wait> <second-wait>]

Syntax Description

no	Negate a command or set its defaults
lsp-gen-interval	Configure LSP generation interval
<i>level</i>	IS-IS level
<i>max-wait</i>	Maximum wait between trigger and LSP generation (milli-secs)
<i>initial-wait</i>	(Optional) Initial wait between trigger and LSP generation (milli-secs)
<i>second-wait</i>	(Optional) Second wait used in LSP generation (milli-secs) during backoff

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

lsp-mtu

lsp-mtu <mtu> | no lsp-mtu [<mtu>]

Syntax Description

no	Negate a command or set its defaults
lsp-mtu	Set LSP MTU
<i>mtu</i>	Maximum LSP size in bytes

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

lsp-mtu

lsp-mtu <mtu> | no lsp-mtu [<mtu>]

Syntax Description

no	Negate a command or set its defaults
lsp-mtu	Set LSP MTU
<i>mtu</i>	Maximum LSP size in bytes

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

lsp

[no] lsp <lsp-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
lsp	Configure the name for the label-switched path
<i>lsp-name</i>	Name for this LSP

Command Mode

- /exec/configure/mpls_static/ipv4

lsp

[no] lsp <lsp-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
lsp	Configure the name for the label-switched path
<i>lsp-name</i>	Name for this LSP

Command Mode

- /exec/configure/mpls_static/ipv6

Isp attributes

[no] lsp attributes <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
lsp	Configure LSP parameters
attributes	Configure LSP attributes
<i>name</i>	Name of LSP attribute list

Command Mode

- /exec/configure/te



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mac-addr

```
{ mac-addr <dstmac> <smac> [ dot1q <dot1q-id> ] }
```

Syntax Description

mac-addr	Mac
<i>dstmac</i>	Destination mac address
<i>smac</i>	Source mac address
dot1q	(Optional) Encapsulation dot1q/bd
<i>dot1q-id</i>	(Optional) Encapsulation dot1q/bd on which the mac is learnt

Command Mode

- /exec/configure/configngoamccpayload

mac-address

mac-address <mac_address_val> | no mac-address [<mac_address_val>]

Syntax Description

no	Negate a command or set its defaults
mac-address	Configure interface mac address (1)
<i>mac_address_val</i>	Static Router MAC address (1)

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-ether-sub /exec/configure/if-eth-non-member /exec/configure/if-remote-ethernet-sub /exec/configure/if-port-channel /exec/configure/if-port-channel-sub /exec/configure/if-ether-sub-p2p /exec/configure/if-ethernet-p2p

mac-address

mac-address <mac-addr> | no mac-address

Syntax Description

no	Negate a command or set its defaults
mac-address	Manually set interface MAC address
<i>mac-addr</i>	MAC address

Command Mode

- /exec/configure/if-vlan-common

mac-address

mac-address <macaddress> | no mac-address [<macaddress>]

Syntax Description

no	Negate a command or set its defaults
mac-address	Virtual MAC address
<i>macaddress</i>	MAC address(FORMAT:xxxx.xxxx.xxxx)

Command Mode

- /exec/configure/if-eth-any/hsrp_ipv4 /exec/configure/if-eth-any/hsrp_ipv6

mac-address destination

{ mac-address { destination | source } <addr> } | { no mac-address { destination | source } }

Syntax Description

no	Negate a command or set its defaults
mac-address	specify flow mac address
source	specify flow source mac address
destination	specify flow destination mac address
<i>addr</i>	mac address

Command Mode

- /exec/configure/configngoamprofileflow

mac-address ipv6-extract

mac-address ipv6-extract | no mac-address ipv6-extract

Syntax Description

no	Negate a command or set its defaults
mac-address	Configure interface mac address (3)
ipv6-extract	Extract mac-address (3) from the IPv6 address configured on the interface

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-ether-sub /exec/configure/if-eth-non-member /exec/configure/if-remote-ethernet-sub /exec/configure/if-port-channel-sub /exec/configure/if-port-channel

mac-list permit

```
{ mac-list <name> [ seq <seq> ] { permit | deny } <mac-addr> [ <mac-mask> ] } | { no mac-list <name> [ seq <seq> ] [ { permit | deny } <mac-addr> [ <mac-mask> ] ] }
```

Syntax Description

no	Negate a command or set its defaults
mac-list	Build a mac list
<i>name</i>	Name of prefix list
seq	(Optional) Sequence number of an entry
<i>seq</i>	(Optional) Sequence number
permit	Specify routes to forward
deny	Specify routes to reject
<i>mac-addr</i>	MAC address
<i>mac-mask</i>	(Optional) MAC Mask. Default Mask is ffff.ffff.ffff

Command Mode

- /exec/configure

mac access-list

[no] mac access-list <name> [client <clienttype> <clientID>]

Syntax Description

no	(Optional) Negate a command or set its defaults
mac	MAC configuration commands
access-list	Configure access list
<i>name</i>	List name
client	(Optional) set client type
<i>clienttype</i>	(Optional) CLI/ONEP
<i>clientID</i>	(Optional) client appID

Command Mode

- /exec/configure

mac address-table multicast vlan interface

[no] mac address-table multicast <mac-address> { vlan <vlan> | bridge-domain <bdid> } interface [vsi] <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
mac	MAC configuration commands
address-table	MAC Address Table
multicast	mcast mac OIF Static Entry
<i>mac-address</i>	mcast MAC Address, not in Unicast IP Range
vlan	VLAN
<i>vlan</i>	VLAN
bridge-domain	BD
<i>bdid</i>	BD
interface	Interface
vsi	(Optional) Specify if this interface is a VSI
<i>interface</i>	Interface name

Command Mode

- /exec/configure

mac address

[no] mac address { <macaddr> }

Syntax Description

no	(Optional) Negate a command or set its defaults
mac	Configure vMAC address options for Pathway
address	Pathway will use a specified vMAC address
<i>macaddr</i>	48-bit MAC address in HEX

Command Mode

- /exec/configure/if-eth-any/vrrs

mac address inherit

mac address inherit

Syntax Description

mac	Configure vMAC address options for Pathway
address	Pathway will use a specified vMAC address
inherit	Pathway will inherit vMAC

Command Mode

- /exec/configure/if-eth-any/vrrs

mac advert interval

[no] mac advert interval | mac advert interval <macint>

Syntax Description

no	Negate a command or set its defaults
mac	Configure vMAC address options for Pathway
advert	Specify vMAC unsolicited advertisements
interval	Specify interval between vMAC unsolicited advertisements
<i>macint</i>	Advertisement Interval in seconds

Command Mode

- /exec/configure/if-eth-any/vrrs

mac packet-classify

[no] mac packet-classify

Syntax Description

no	(Optional) Negate a command or set its defaults
mac	MAC configuration commands
packet-classify	Force mac classification of packets

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-remote-ethernet-switch
/exec/configure/if-eth-port-channel-switch /exec/configure/if-ethernet-all

mac port access-group

[no] mac port access-group <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
mac	MAC configuration commands
port	Port policy
access-group	Specify access control for packets
<i>name</i>	List name

Command Mode

- /exec/configure/if-set-acl-l2

macsec keychain

[no] macsec keychain <keychain_name> [policy <policy_name>]

Syntax Description

macsec	Specify MKA keychain and MACsec policy
keychain	key chain
<i>keychain_name</i>	name of the keychain specified as a string
policy	(Optional) policy
<i>policy_name</i>	(Optional) name of the policy specified as a string

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

macsec policy

[no] macsec policy <policy_name>

Syntax Description

macsec	Configure MACSEC
policy	Configure MACSEC policy
<i>policy_name</i>	Name of Policy

Command Mode

- /exec/configure

managed-config-flag

[no] managed-config-flag <state>

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>state</i>	

Command Mode

- /exec/configure/config-ra-guard

management

[no] management

Syntax Description

no	(Optional) Negate a command or set its defaults
management	Allow in-band management access to VLAN Interface IP address

Command Mode

- /exec/configure/if-vlan-common

map-notify-group

```
{ [ no ] map-notify-group { <addr> | <addr6> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
map-notify-group	Group address to send and receive site specific Map-Notify messages
<i>addr</i>	IPv4 group address

Command Mode

- /exec/configure/lisp-dynamic-oid /exec/configure/vrf/lisp-dynamic-oid

map-server key

```
{ { [ no ] map-server { <ms> | <ms6> } [ key-type { sha1 | sha2 } ] key <key> } | { [ no ] map-server { <ms> | <ms6> } proxy-reply } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
map-server	To interact with Map-Server
<i>ms</i>	Address of IPv4 map-server
key-type	(Optional) Authentication key type, either sha1 or sha2
sha1	(Optional) Use sha1 authentication in Map-Register messages
sha2	(Optional) Use sha2 authentication in Map-Register messages
key	Authentication key used with Map-Server
<i>key</i>	SHA-1 password key
proxy-reply	Request Map-Server to send Map-Replies on behalf of dynamic-EID

Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

master ipv4

[no] master ipv4 <ip>

Syntax Description

no	(Optional) Negate a command or set its defaults
master	master
ipv4	ipv4
<i>ip</i>	IPv4 address (A.B.C.D) of slave

Command Mode

- /exec/configure/ptp-ucast-slave

match-address

[no] match-address

Syntax Description

no	(Optional) Negate a command or set its defaults
match-address	Match addresses in advertisement packets

Command Mode

- /exec/configure/if-eth-any/vrrpv3

match

```
[no] match { { access-group name <acl-name> } | [ not ] { { cos <cos-value> } | any | { eth-src <mac_src>
<mac_src_wild> } | { eth-dest <mac_dest> <mac_dest_wild> } | { eth-type <eth-value> } | { vlan
<vlan-number> } | { ip-tos <tos-value> <tos-mask> } | { ip-protocol <ip-protocol-value> } | { ip-src-addr
<ip-s-addr> <ip-s-mask> } | { ip-dst-addr <ip-d-addr> <ip-d-mask> } | { tcp-src-port <tcp-src-port-addr> } |
{ tcp-dst-port <tcp-dst-port-addr> } | { udp-src-port <udp-src-port-addr> } | { udp-dst-port
<udp-dst-port-addr> } | { input-interface <ifnum> } | { ipv6-src-addr <ipv6-s-addr> <ipv6-s-mask> } | {
ipv6-dst-addr <ipv6-d-addr> <ipv6-d-mask> } | { ipv6-protocol <ipv6-protocol-value> } | { ipv6-flowlabel
<ipv6-flowlabel-value> } | { icmpv6-type <icmpv6-type-value> } | { icmpv6-code <icmpv6-code-value> } |
{ ipv4-dscp <ipv4-dscp-list> } | { ipv6-dscp <ipv6-dscp-list> } | { dscp { <dscp-list> | <dscp-enum> } + } |
{ precedence { <precedence-list> | <prec-enum> } + } | { discard-class <discard-class-list> } | { qos-group
<qos-group-list> } | { class-map <cmap-name-plc> } | { protocol <protocol-enum> } | { packet length <len-list>
} | { ip rtp <port-list> } | { mpls experimental topmost <exp-list> } } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
not	(Optional) Negate this match result
access-group	Access group
name	Named Access List
<i>acl-name</i>	Access List name
cos	IEEE 802.1Q class of service
dscp	DSCP in IP(v4) and IPv6 packets
<i>dscp-list</i>	List of DSCP values
<i>dscp-enum</i>	
precedence	Precedence in IP(v4) and IPv6 packets
<i>precedence-list</i>	List of precedence values
<i>prec-enum</i>	
discard-class	Discard class
<i>discard-class-list</i>	List of discard-class values
qos-group	Qos-group
<i>qos-group-list</i>	List of qos-group values
class-map	Class map
<i>cmap-name-plc</i>	Match class-map name

protocol	Protocol
<i>protocol-enum</i>	
packet	Packet
length	Length of IP datagram
<i>len-list</i>	list of IP packet length
ip	IP
rtp	Real Time Protocol
<i>port-list</i>	UDP port list that are using RTP
mpls	Match on MPLS label
experimental	Match on MPLS Experimental label
topmost	Match on topmost MPLS label
<i>exp-list</i>	List of MPLS exp values
any	Match on Any Filter
eth-dest	Match on Layer 2 destination MAC address
eth-src	Match on Layer 2 source MAC address
eth-type	Match on Ether type
vlan	Match on 802.1Q vlan
ip-tos	Match on IPv4 TOS
ip-protocol	Match on IP protocol
ip-src-addr	Match on IPv4 source address
ip-dst-addr	Match on IPv4 destination address
ipv6-src-addr	Match on IPv6 source address
ipv6-dst-addr	Match on IPv6 destination address
tcp-src-port	Match on TCP source port
tcp-dst-port	Match on TCP source port
udp-src-port	Match on UDP source port
udp-dst-port	Match on UDP source port
input-interface	Match on physical input interface
ipv6-protocol	Match on IPv6 Protocol Value

<i>ipv6-flowlabel</i>	Match on IPv6 Flowlabel
<i>icmpv6-type</i>	Match on ICMPv6 Message Type
<i>icmpv6-code</i>	Match on ICMPv6 Message Code
<i>ipv4-dscp</i>	Match on DSCP for IPV4 Packets
<i>ipv6-dscp</i>	Match on DSCP for IPV6 Packets
<i>cos-value</i>	class of service Value
<i>mac_src</i>	Source MAC address
<i>mac_src_wild</i>	Source MAC mask
<i>mac_dest</i>	Destination MAC address
<i>mac_dest_wild</i>	Destination MAC mask
<i>eth-value</i>	Ethernet type
<i>vlan-number</i>	Vlan number
<i>tos-value</i>	IPv4 TOS
<i>tos-mask</i>	IPv4 TOS Mask for DSCP
<i>ip-protocol-value</i>	IPV4 protocol
<i>ip-s-addr</i>	IPV4 address in format a.b.c.d
<i>ip-d-addr</i>	IPV4 address in format a.b.c.d
<i>ip-s-mask</i>	IPV4 address Mask in format a.b.c.d
<i>ip-d-mask</i>	IPV4 address Mask in format a.b.c.d
<i>tcp-src-port-addr</i>	Transport layer port number
<i>tcp-dest-port-addr</i>	Transport layer port number
<i>udp-src-port-addr</i>	Transport layer port number
<i>udp-dest-port-addr</i>	Transport layer port number
<i>ifnum</i>	Physical interface Name and Number
<i>ipv6-protocol-value</i>	IPv6 Protocol Value
<i>ipv6-flowlabel-value</i>	IPv6 Flowlabel
<i>icmpv6-type-value</i>	ICMPv6 Message Type
<i>icmpv6-code-value</i>	ICMPv6 Message Code
<i>ipv4-dscp-list</i>	List of IPV4 DSCP values

<i>ipv6-dscp-list</i>	List of IPV6 DSCP values
-----------------------	--------------------------

Command Mode

- /exec/configure/class-map/type/plc

match

```
[no] match { { access-group name <acl-name> } | [ not ] { dscp { <dscp-list> | { <dscp-enum> } + } | { {
packet length <len-list> | ip rtp <port-list> } [ replace ] } | { cos <cos-list> } | { qos-group <qos-group-list>
} | { precedence { <precedence-list> | { <prec-enum> } + } } | { protocol <protocol-enum> } | { mpls
experimental topmost <exp-list> } } }
```

Syntax Description

<i>dscp-list</i>	<dscp-enum>
<i>cos-list</i>	
<i>precedence-list</i>	<prec-enum>
no	(Optional) Negate a command or set its defaults
replace	(Optional) Replace current ip rtp / packet length configuration
match	Classification criteria
not	(Optional) Negate this match result
access-group	Access group
name	Named Access List
<i>acl-name</i>	Access List name
dscp	DSCP in IP(v4) and IPv6 packets
<i>dscp-enum</i>	
cos	IEEE 802.1Q Class of Service
qos-group	Qos-group
<i>qos-group-list</i>	List of qos-group values
precedence	Precedence in IP(v4) and IPv6 packets
<i>prec-enum</i>	
protocol	Protocol
<i>protocol-enum</i>	
packet	Packet
length	Length of IP datagram
<i>len-list</i>	List of IP packet length
ip	IP

rtplib	Real Time Protocol
<i>port-list</i>	UDP port list that are using RTP
mpls	Match on MPLS label
experimental	Match on MPLS Experimental label
topmost	Match on topmost MPLS label
<i>exp-list</i>	List of MPLS exp values

Command Mode

- /exec/configure/class-map

match

```
[no] match { [ not ] { { discard-class <discard-class-list> } | { class-map <cmmap-name> } } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
not	(Optional) Negate this match result
discard-class	Discard class
<i>discard-class-list</i>	List of discard-class values
class-map	Class map
<i>cmmap-name</i>	Match class-map name

Command Mode

- /exec/configure/class-map

match access-group name

[no] match access-group name <acs-grp-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
access-group	Match with given access group
name	Name of the access group
<i>acs-grp-name</i>	Match parameter for class-map

Command Mode

- /exec/configure/cmap

match address

[no] match <ip_ipv6_mac> address <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Specify the match clause
<i>ip_ipv6_mac</i>	IP/IPv6/MAC
address	Match an access list
<i>name</i>	List name

Command Mode

- /exec/configure/vacl

match as-number

[no] match as-number [{ <asnum> | <asnum_range> } +] { <asnum_trail> | <asnum_range_trail> }

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
as-number	Match BGP peer AS number
<i>asnum</i>	(Optional) <AA4> ,
<i>asnum_range</i>	(Optional) <AA4>-<AA4> ,
<i>asnum_trail</i>	<AA4> ,
<i>asnum_range_trail</i>	<AA4>-<AA4> ,

Command Mode

- /exec/configure/route-map

match as-number as-path-list

match as-number as-path-list <aspl-name> + | no match as-number as-path-list { <aspl-name> | <aspl-name> } +

Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
as-number	Match BGP peer AS number
as-path-list	AS-path access-list
<i>aspl-name</i>	AS path access list name
<i>aspl-name</i>	AS path access list name
<i>aspl-name</i>	Known as-path access-list name

Command Mode

- /exec/configure/route-map

match as-path

match as-path <aspl-name> + | no match as-path { <aspl-name> | <aspl-name> } +

Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
as-path	Match BGP AS path list
<i>aspl-name</i>	AS path access list name
<i>aspl-name</i>	AS path access list name
<i>aspl-name</i>	Known as-path access-list name

Command Mode

- /exec/configure/route-map

match class-map

[no] match class-map < cmap-name >

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
class-map	Class map
<i>cmap-name</i>	class map name

Command Mode

- /exec/configure/class-map/type/queuing

match community

[no] match community <name> + [exact-match]

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
community	Match BGP community list
<i>name</i>	Community list name
exact-match	(Optional) Do exact matching of communities

Command Mode

- /exec/configure/route-map

match cos

[no] match cos <cos-list>

Syntax Description

<i>cos-list</i>	
no	(Optional) Negate a command or set its defaults
match	Classification criteria
cos	IEEE 802.1Q Class of Service

Command Mode

- /exec/configure/class-map/type/queuing

match cos

[no] match cos <cos-list>

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
cos	IEEE 802.1Q class of service
<i>cos-list</i>	List of class-of-service values

Command Mode

- /exec/configure/class-map/type/uf

match datalink

[no] match datalink { mac source-address | mac destination-address | ethertype | vlan }

Syntax Description

match	Specify a key field
datalink	datalink (Layer 2) attributes
mac	MAC Address
source-address	Source MAC Address
destination-address	Destination MAC Address
ethertype	Ethertype
vlan	VLAN ID

Command Mode

- /exec/configure/nfm-record

match dscp

[no] match dscp { <dscp-list> | <dscp-enum> } +

Syntax Description

<i>dscp-list</i>	<dscp-enum>
no	(Optional) Negate a command or set its defaults
match	Classification criteria
dscp	DSCP in IP(v4) and IPv6 packets
<i>dscp-enum</i>	

Command Mode

- /exec/configure/color-cmap

match dscp

[no] match dscp { <dscp-list> } +

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
dscp	DSCP in IP(v4) packets
<i>dscp-list</i>	List of DSCP values

Command Mode

- /exec/configure/class-map/type/queuing

match exception

```
[no] match exception { { { ip | ipv6 } { option | { icmp { redirect | unreachable } } | multicast } } | ttl-failure
| glean | mtu-failure | nat-flow | { multicast { rpf-failure | sg-rpf-failure | dest-miss | ipv6-rpf-failure |
ipv6-sg-rpf-failure | ipv6-dest-miss } } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
exception	Match exception packets
ip	ipv4 match criteria
ipv6	ipv6 match criteria
option	Match ip/ipv6 option exception packets
icmp	Icmp redirect packets
redirect	Send redirected packets back to sender
unreachable	Send unreachable packets back to sender
municast	IP unicast packets with multicast MAC
ttl-failure	Failed in ttl
mtu-failure	mtu-failure
glean	Glean packets
multicast	multicast packets
rpf-failure	multicast rpf check failure
sg-rpf-failure	multicast sg rpf check failure
dest-miss	L3 multicast destination lookup failure
ipv6-rpf-failure	IPv6 multicast rpf check failure
ipv6-sg-rpf-failure	IPv6 multicast sg rpf check failure
ipv6-dest-miss	IPv6 L3 multicast destination lookup failure
nat-flow	ipv4 software nat flow packets

Command Mode

- /exec/configure/cmap

match extcommunity

[no] match extcommunity <name> + [exact-match]

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
extcommunity	Match BGP community list
<i>name</i>	Extended Community list name
exact-match	(Optional) Do exact matching of extended communities

Command Mode

- /exec/configure/route-map

match interface

[no] match interface <name> +

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
interface	Match first hop interface of route
<i>name</i>	Interface name

Command Mode

- /exec/configure/route-map

match ip address

[no] match ip address <name> +

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
ip	Configure IP features
address	Match address of route or match packet
<i>name</i>	IP access-list name (for use in route-maps for PBR only)

Command Mode

- /exec/configure/route-map

match ip address prefix-list

match ip address prefix-list <ipv4-pfl-name> + | no match ip address prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } +

Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
ip	Configure IP features
address	Match address of route or match packet
prefix-list	Match entries of prefix-lists
<i>ipv4-pfl-name</i>	Name of prefix-list
<i>ipv4-pfl-name</i>	Name of prefix-list
<i>ipv4-pfl-name</i>	Known prefix-list name

Command Mode

- /exec/configure/route-map

match ip multicast rp

```
{ match ip multicast { { rp <iprp> [ rp-type <iprptype> ] } | { group <gprefix> } | { source <ipsrc> } } + } |
{ match ip multicast { { rp <iprp> [ rp-type <iprptype> ] } | { group-range <gaddr_start> to <gaddr_end> }
| { source <ipsrc> } } + } | { no match ip multicast }
```

Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
ip	Configure IP features
multicast	Match multicast attributes
rp	Rendezvous point
<i>iprp</i>	IPv4 rendezvous prefix
rp-type	(Optional) Multicast rendezvous point type
<i>iprptype</i>	(Optional) IPv4 rendezvous point type
group	Multicast Group prefix
<i>gprefix</i>	IPv4 group prefix
group-range	Multicast Group address range
<i>gaddr_start</i>	First Group address
to	Range
<i>gaddr_end</i>	Last Group address
source	Multicast source address
<i>ipsrc</i>	IPv4 source prefix

Command Mode

- /exec/configure/route-map

match ip next-hop prefix-list

match ip next-hop prefix-list <ipv4-pfl-name> + | no match ip next-hop prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } +

Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
ip	Configure IP features
next-hop	Match next-hop address of route
prefix-list	Match entries of prefix-lists
<i>ipv4-pfl-name</i>	Name of prefix-list
<i>ipv4-pfl-name</i>	Name of prefix-list
<i>ipv4-pfl-name</i>	Known prefix-list name

Command Mode

- /exec/configure/route-map

match ip protocol

[no] match ip { protocol | tos }

Syntax Description

match	Specify a key field
ip	IP attributes
protocol	Protocol
tos	TOS

Command Mode

- /exec/configure/nfm-record

match ip route-source prefix-list

match ip route-source prefix-list <ipv4-pfl-name> + | no match ip route-source prefix-list { <ipv4-pfl-name> | <ipv4-pfl-name> } +

Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
ip	Configure IP features
route-source	Match advertising source address of route
prefix-list	Match entries of prefix-lists
<i>ipv4-pfl-name</i>	Name of prefix-list
<i>ipv4-pfl-name</i>	Name of prefix-list
<i>ipv4-pfl-name</i>	Known prefix-list name

Command Mode

- /exec/configure/route-map

match ipv4 source address

[no] match ipv4 { source | destination } address

Syntax Description

match	Specify a key field
ipv4	IPv4 attributes
source	Source Address
destination	Destination Address
address	Address

Command Mode

- /exec/configure/nfm-record

match ipv6

```
[no] match ipv6 { { { source | destination } address } | { flow-label | options } }
```

Syntax Description

match	Specify a key field
ipv6	IPv6 attributes
source	Source Address
destination	Destination Address
address	Address
flow-label	Flow label
options	Options

Command Mode

- /exec/configure/nfm-record

match ipv6 address

[no] match ipv6 address <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
ipv6	Configure IPv6 features
address	Match address of route or match packet
<i>name</i>	IPv6 access-list name (for use in route-maps for PBR only)

Command Mode

- /exec/configure/route-map

match ipv6 address prefix-list

```
match ipv6 address prefix-list <ipv6-pfl-name> + | no match ipv6 address prefix-list { <ipv6-pfl-name> | <ipv6-pfl-name> } +
```

Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
ipv6	Configure IPv6 features
address	Match address of route or match packet
prefix-list	Match entries of prefix-lists
<i>ipv6-pfl-name</i>	Name of prefix-list
<i>ipv6-pfl-name</i>	Name of prefix-list
<i>ipv6-pfl-name</i>	Known prefix-list name

Command Mode

- /exec/configure/route-map

match ipv6 multicast rp

```
{ match ipv6 multicast { { rp <ipv6rp> [ rp-type <ipv6rptype> ] } | { group <gprefix> } | { source <ipv6src> } } + } | { match ipv6 multicast { { rp <ipv6rp> [ rp-type <ipv6rptype> ] } | { group-range <gaddr_start> to <gaddr_end> } | { source <ipv6src> } } + } | { no match ipv6 multicast }
```

Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
ipv6	Configure IPv6 features
multicast	Match multicast attributes
rp	Rendezvous point
rp-type	(Optional) Multicast rendezvous point type
<i>ipv6rptype</i>	(Optional) IPv6 rendezvous point type
group	Multicast group address
group-range	Multicast Group address range
to	Range
source	Multicast source address

Command Mode

- /exec/configure/route-map

match ipv6 next-hop prefix-list

match ipv6 next-hop prefix-list <ipv6-pfl-name> + | no match ipv6 next-hop prefix-list { <ipv6-pfl-name> | <ipv6-pfl-name> } +

Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
ipv6	Configure IPv6 features
next-hop	Match next-hop address of route
prefix-list	Match entries of prefix-lists
<i>ipv6-pfl-name</i>	Name of prefix-list
<i>ipv6-pfl-name</i>	Name of prefix-list
<i>ipv6-pfl-name</i>	Known prefix-list name

Command Mode

- /exec/configure/route-map

match ipv6 route-source prefix-list

```
match ipv6 route-source prefix-list <ipv6-pfl-name> + | no match ipv6 route-source prefix-list {
<ipv6-pfl-name> | <ipv6-pfl-name> } +
```

Syntax Description

no	Negate a command or set its defaults
match	Match values from routing table
ipv6	Configure IPv6 features
route-source	Match advertising source address of route
prefix-list	Match entries of prefix-lists
<i>ipv6-pfl-name</i>	Name of prefix-list
<i>ipv6-pfl-name</i>	Name of prefix-list
<i>ipv6-pfl-name</i>	Known prefix-list name

Command Mode

- /exec/configure/route-map

match metric

[no] match metric { <measure> [<plus-minus> <deviation>] } +

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
metric	Match metric of route
<i>plus-minus</i>	(Optional) +/-
<i>measure</i>	Metric value
<i>deviation</i>	(Optional) Deviation value

Command Mode

- /exec/configure/route-map

match ospf-area

[no] match ospf-area <area> +

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
ospf-area	Match ospf area
<i>area</i>	area id

Command Mode

- /exec/configure/route-map

match protocol

[no] match protocol { fcoe | iscsi | tcp }

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
protocol	Protocol
fcoe	FCoE
iscsi	ISCSI
tcp	TCP

Command Mode

- /exec/configure/class-map/type/uf

match protocol arp

```
[no] match protocol { arp | mpls [ router-alert | exp <exp_value> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
protocol	Protocol
arp	IP ARP
mpls	Multi-protocol Label Switching
router-alert	(Optional) Match packets with router-alert label set to 1 for OTV Overlay frames
exp	(Optional) Match packets on MPLS exp bits
<i>exp_value</i>	(Optional) Exp bits value

Command Mode

- /exec/configure/cmap

match qos-group

[no] match qos-group { <qos-group-list> } +

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
qos-group	QoS Group
<i>qos-group-list</i>	List of qos-group values

Command Mode

- /exec/configure/class-map/type/queuing

match qos-group2

[no] match qos-group2 { <qos-group-list> }

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
qos-group2	QoS Group
<i>qos-group-list</i>	List of qos-group values

Command Mode

- /exec/configure/class-map/type/queuing

match qos-group2

[no] match qos-group2 <qos-group-list>

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
qos-group2	QoS Group
<i>qos-group-list</i>	

Command Mode

- /exec/configure/class-map/type/uf

match qos-group

[no] match qos-group <qos-group-list>

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
qos-group	QoS Group
<i>qos-group-list</i>	List of qos-group values

Command Mode

- /exec/configure/class-map/type/uf

match redirect

[no] match redirect <opt_match_redirect>

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Classification criteria
redirect	Match redirected packets
<i>opt_match_redirect</i>	Match criteria for redirected packets

Command Mode

- /exec/configure/cmap

match route-type

[no] match route-type { external | internal | level-1 | level-2 | local | nssa-external | type-1 | type-2 | inter-area | intra-area } +

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
route-type	Match route-type of route
external	external route (BGP, EIGRP and OSPF type 1/2)
internal	internal route (including OSPF intra/inter area)
level-1	IS-IS level-1 route
level-2	IS-IS level-2 route
local	locally generated route
nssa-external	nssa-external route (OSPF type 1/2)
type-1	OSPF external type 1 route
type-2	OSPF external type 2 route
inter-area	OSPF inter area route
intra-area	OSPF intra area route

Command Mode

- /exec/configure/route-map

match source-protocol

[no] match source-protocol <src_prot> +

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
source-protocol	Match source protocol
<i>src_prot</i>	Protocol instance name

Command Mode

- /exec/configure/route-map

match tag

[no] match tag <tagid> +

Syntax Description

no	(Optional) Negate a command or set its defaults
match	Match values from routing table
tag	Match tag of route
<i>tagid</i>	Tag value

Command Mode

- /exec/configure/route-map

match transport destination

[no] match transport { destination-port | source-port }

Syntax Description

match	Specify a key field
transport	Transport layer fields
destination-port	Transport destination port
source-port	Transport source port

Command Mode

- /exec/configure/nfm-record

max-backoff

max-backoff <maxbackoff-val> | no max-backoff

Syntax Description

no	Negate a command or set its defaults
max-backoff	OpenFlow controller maximum backoff timer (default is 8 seconds)
<i>maxbackoff-val</i>	max backoff timer value in secs

Command Mode

- /exec/configure/openflow/switch

max-backoff

max-backoff <maxbackoff-val> | no max-backoff

Syntax Description

no	Negate a command or set its defaults
max-backoff	OpenFlow controller maximum backoff timer (default is 8 seconds)
<i>maxbackoff-val</i>	max backoff timer value in secs

Command Mode

- /exec/configure/openflow/switch/sub-switch

max-lsa

[no] max-lsa <maximum-number> [<threshold>] [warning-only | [ignore-time <ignore-time-minutes>] [ignore-count <ignore-count-number>] [reset-time <reset-time-minutes>]]

Syntax Description

no	(Optional) Negate a command or set its defaults
max-lsa	Feature to limit the number of non-self-originated LSAs
<i>maximum-number</i>	Set maximum number of non self-generated LSAs
<i>threshold</i>	(Optional) Threshold value (%) at which to generate a warning message
warning-only	(Optional) Log a warning message when limit is exceeded
ignore-time	(Optional) Set time during which all adjacencies are suppressed
<i>ignore-time-minutes</i>	(Optional) ignore-time in minutes
ignore-count	(Optional) Set count on how many times adjacencies can be suppressed
<i>ignore-count-number</i>	(Optional) ignore-count
reset-time	(Optional) Set number of minutes after which ignore-count is reset to zero
<i>reset-time-minutes</i>	(Optional) reset-time in minutes

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

max-lsa

[no] max-lsa <maximum-number> [<threshold>] [warning-only | [ignore-time <ignore-time-minutes>] [ignore-count <ignore-count-number>] [reset-time <reset-time-minutes>]]

Syntax Description

no	(Optional) Negate a command or set its defaults
max-lsa	Feature to limit the number of non-self-originated LSAs
<i>maximum-number</i>	Set maximum number of non self-generated LSAs
<i>threshold</i>	(Optional) Threshold value (%) at which to generate a warning message
warning-only	(Optional) Log a warning message when limit is exceeded
ignore-time	(Optional) Set time during which all adjacencies are suppressed
<i>ignore-time-minutes</i>	(Optional) ignore-time in minutes
ignore-count	(Optional) Set count on how many times adjacencies can be suppressed
<i>ignore-count-number</i>	(Optional) ignore-count
reset-time	(Optional) Set number of minutes after which ignore-count is reset to zero
<i>reset-time-minutes</i>	(Optional) reset-time in minutes

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

max-lsp-lifetime

max-lsp-lifetime <lifetime> | no max-lsp-lifetime [<lifetime>]

Syntax Description

no	Negate a command or set its defaults
max-lsp-lifetime	Set maximum LSP lifetime
<i>lifetime</i>	Maximum LSP lifetime in seconds

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

max-lsp-lifetime

max-lsp-lifetime <lifetime> | no max-lsp-lifetime [<lifetime>]

Syntax Description

no	Negate a command or set its defaults
max-lsp-lifetime	Set maximum LSP lifetime
<i>lifetime</i>	Maximum LSP lifetime in seconds

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

max-metric router-lsa

```
[no] max-metric router-lsa [ external-lsa [ <max-metric-extlsa> ] ] [ include-stub ] [ on-startup [ <timeout> ]
[ wait-for bgp <as> ] ] [ summary-lsa [ <max-metric-sumlsa> ] ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
max-metric	Maximize the cost metric
router-lsa	Router LSA
external-lsa	(Optional) External LSAs
<i>max-metric-extlsa</i>	(Optional) Max metric value for external LSAs
include-stub	(Optional) Advertise Max metric for Stub links as well
on-startup	(Optional) Effective only at startup
<i>timeout</i>	(Optional) Wait period in seconds after startup
wait-for	(Optional) Wait for an event to advertise normal metric
bgp	(Optional) BGP Convergence
<i>as</i>	(Optional) ASN of BGP to wait for
summary-lsa	(Optional) Summary LSAs
<i>max-metric-sumlsa</i>	(Optional) Max metric value for summary LSAs

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

max-metric router-lsa

```
[no] max-metric router-lsa [ external-lsa [ <max-metric-extlsa> ] ] [ stub-prefix-lsa ] [ on-startup [ <timeout> ] ] [ wait-for bgp <as> ] ] [ inter-area-prefix-lsa [ <max-metric-sumlsa> ] ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
max-metric	Maximize the cost metric
router-lsa	Router LSA
external-lsa	(Optional) External LSAs
<i>max-metric-extlsa</i>	(Optional) Max metric value for external LSAs
stub-prefix-lsa	(Optional) Advertise Max metric for Stub links as well
on-startup	(Optional) Effective only at startup
<i>timeout</i>	(Optional) Wait period in seconds after startup
wait-for	(Optional) Wait for an event to advertise normal metric
bgp	(Optional) BGP Convergence
<i>as</i>	(Optional) ASN of BGP to wait for
inter-area-prefix-lsa	(Optional) Inter-area-prefix LSAs
<i>max-metric-sumlsa</i>	(Optional) Max metric value for summary LSAs

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

max-ports

[vmware] max-ports <i0>

Syntax Description

vmware	(Optional) VMware configuration
max-ports	Max ports on which this profile can be inherited
<i>i0</i>	Enter the max-number of ports

Command Mode

- /exec/configure/port-profile

max-ports

[no] [vmware] max-ports

Syntax Description

no	Negate a command or set its defaults
vmware	(Optional) VMware configuration
max-ports	Max ports on which this profile can be inherited

Command Mode

- /exec/configure/port-profile

maxas-limit

maxas-limit <as-limit> | no maxas-limit [<as-limit>]

Syntax Description

no	Negate a command or set its defaults
maxas-limit	Allow AS-PATH attribute from EBGP neighbor imposing a limit on number of ASes
<i>as-limit</i>	Number of ASes in the AS-PATH attribute

Command Mode

- /exec/configure/router-bgp/vrf-cmds

maximum-paths

maximum-paths [ibgp] <mpath-count> | no maximum-paths [ibgp] [<mpath-count>]

Syntax Description

no	Negate a command or set its defaults
maximum-paths	Forward packets over multipath paths
ibgp	(Optional) Configure multipath for IBGP paths
<i>mpath-count</i>	Number of parallel paths

Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

maximum-paths

maximum-paths <max-paths> | no maximum-paths [<max-paths>]

Syntax Description

no	Negate a command or set its defaults
maximum-paths	Maximum paths per destination
<i>max-paths</i>	Maximum paths per destination

Command Mode

- /exec/configure/router-ospf

maximum-paths

{ { maximum-paths <num-paths> } | { no maximum-paths [<num-paths>] } }

Syntax Description

no	Negate a command or set its defaults
maximum-paths	Forward packets over multiple paths
<i>num-paths</i>	Number of paths

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

maximum-paths

maximum-paths <max-paths> | no maximum-paths [<max-paths>]

Syntax Description

no	Negate a command or set its defaults
maximum-paths	Set maximum paths per destination
<i>max-paths</i>	Maximum paths per destination

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv6

maximum-paths

maximum-paths <max-paths> | no maximum-paths [<max-paths>]

Syntax Description

no	Negate a command or set its defaults
maximum-paths	RIP set maximum paths per route
<i>max-paths</i>	Maximum paths per prefix

Command Mode

- /exec/configure/router-rip/router-rip-af-common /exec/configure/router-rip/router-rip-vrf-af-common

maximum-paths

maximum-paths <max-paths> | no maximum-paths [<max-paths>]

Syntax Description

no	Negate a command or set its defaults
maximum-paths	Maximum paths per destination
<i>max-paths</i>	Maximum paths per destination

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

maximum-paths eibgp

maximum-paths eibgp <mpath-count> | no maximum-paths eibgp [<mpath-count>]

Syntax Description

no	Negate a command or set its defaults
maximum-paths	Forward packets over multipath paths
eibgp	Configure multipath for both EBGP and IBGP paths
<i>mpath-count</i>	Number of parallel paths

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6
/exec/configure/router-bgp/router-bgp-af-vpn4 /exec/configure/router-bgp/router-bgp-af-vpn6

maximum-peers

{ maximum-peers <limit> | no maximum-peers [<limit>] }

Syntax Description

no	Negate a command or set its defaults
maximum-peers	Maximum number of peers for this prefix
<i>limit</i>	Max. peers limit

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-prefix

maximum-prefix

```
maximum-prefix <limit> [ <percent> ] [ restart <restart-time> | warning-only ] | { no | default } maximum-prefix
[ <limit> [ <percent> ] [ restart <restart-time> | warning-only ] ]
```

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
maximum-prefix	Maximum number of prefixes from this neighbor
<i>limit</i>	Max. prefix limit
<i>percent</i>	(Optional) Threshold percentage at which to generate a warning
restart	(Optional) Restart bgp connection after limit is exceeded
<i>restart-time</i>	(Optional) Restart interval in minutes
warning-only	(Optional) Only give a warning message when limit is exceeded

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-link-state
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

maximum-prefix

maximum-prefix <limit> [<percent>] [restart <restart-time> | warning-only] | { no | default } maximum-prefix [<limit> [<percent>] [restart <restart-time> | warning-only]]

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
maximum-prefix	Maximum number of prefixes from this neighbor
<i>limit</i>	Max. prefix limit
<i>percent</i>	(Optional) Threshold percentage at which to generate a warning
restart	(Optional) Restart bgp connection after limit is exceeded
<i>restart-time</i>	(Optional) Restart interval in minutes
warning-only	(Optional) Only give a warning message when limit is exceeded

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls

maximum-prefix

```
{ { maximum-prefix <value> [ <threshold> ] [ warning-only ] [ restart <time1> ] [ restart-count <count> ] [
reset-time <time2> ] [ dampened ] } | { no maximum-prefix [ <value> [ <threshold> ] [ warning-only ] [ restart
<time1> ] [ restart-count <count> ] [ reset-time <time2> ] [ dampened ] } }
```

Syntax Description

no	Negate a command or set its defaults
maximum-prefix	Maximum number of IP prefixes acceptable in aggregate
<i>value</i>	Number of IP prefixes for maximum-prefix limit
<i>threshold</i>	(Optional) Threshold value (%) at which to generate a warning message
warning-only	(Optional) Only give warning message when limit is exceeded
restart	(Optional) Duration for which a prefix source is ignored
<i>time1</i>	(Optional) Restart interval in minutes
restart-count	(Optional) Number of times sessions are auto-restarted
<i>count</i>	(Optional) Number of times
reset-time	(Optional) Duration after which restart history is cleared
<i>time2</i>	(Optional) Reset time in minutes
dampened	(Optional) Exponentially increase restart time interval

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

maximum routes

[no] maximum routes <limit> [{ <warnlevel> [reinstall <threshold>] } | warning-only]

Syntax Description

no	(Optional) Negate a command or set its defaults
maximum	Set a limit
routes	Maximum number of routes allowed in this routing table
<i>limit</i>	Maximum number of routes allowed
<i>warnlevel</i>	(Optional) Threshold value (%) at which to generate a warning msg
reinstall	(Optional) Reinstall previous rejected route due to over maximum route limit
<i>threshold</i>	(Optional) Threshold value (%) at which to reinstall routes back to VRF
warning-only	(Optional) Only give a warning message if limit is exceeded

Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

mcast-group

mcast-group <maddr1> [<maddr2>] | no mcast-group

Syntax Description

no	Negate a command or set its defaults
mcast-group	NVE Multicast Group
<i>maddr1</i>	Multicast IP Prefix
<i>maddr2</i>	(Optional) Multicast IP Prefix

Command Mode

- /exec/configure/if-nve/vni

mcast-routing override source-interface

[no] mcast-routing override source-interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
mcast-routing	
override	Override source address of routed mcast packets
source-interface	Source address of routed mcast packets
<i>interface</i>	

Command Mode

- /exec/configure/if-nve

mdix auto

{ mdix auto | no mdix [auto] }

Syntax Description

no	Negate a command or set its defaults
mdix	Enable auto mdix mode
auto	Enable auto mdix mode

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

mdt asm-use-shared-tree

[no] mdt asm-use-shared-tree

Syntax Description

no	(Optional) Negate a command or set its defaults
mdt	Backbone Multicast Distribution Tree
asm-use-shared-tree	Use (*,G) only state, no remote source state is created

Command Mode

- /exec/configure/vrf

mdt data

[no] mdt data <prefix> [threshold <value> | immediate-switch] [route-map <policy-name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
mdt	Backbone Multicast Distribution Tree
data	Configure settings for Data MDT
<i>prefix</i>	List of group range prefixes
threshold	(Optional) Data MDT switching threshold
immediate-switch	(Optional) Move to data mdt immediately if remote receiver exists
<i>value</i>	(Optional) Threshold in kilobits per sec
route-map	(Optional) Specify policy for creating Data MDTs
<i>policy-name</i>	(Optional) A route-map name

Command Mode

- /exec/configure/vrf

mdt data bidir-enable

[no] mdt data bidir-enable

Syntax Description

no	(Optional) Negate a command or set its defaults
mdt	Backbone Multicast Distribution Tree
data	Configure settings for Data MDT
bidir-enable	Allow creation of data mdts for bidir customers

Command Mode

- /exec/configure/vrf

mdt data inhibit-reuse

[no] mdt data inhibit-reuse

Syntax Description

no	(Optional) Negate a command or set its defaults
mdt	Backbone Multicast Distribution Tree
data	Configure settings for Data MDT
inhibit-reuse	No reusing data mdts in the backbone network

Command Mode

- /exec/configure/vrf

mdt default

mdt default <mdt-default> | no mdt default [<mdt-default>]

Syntax Description

no	Negate a command or set its defaults
mdt	Backbone Multicast Distribution Tree
default	The default group
<i>mdt-default</i>	IP multicast group address

Command Mode

- /exec/configure/vrf

mdt enforce-bgp-mdt-safi

[no] mdt enforce-bgp-mdt-safi

Syntax Description

no	(Optional) Negate a command or set its defaults
mdt	Backbone Multicast Distribution Tree
enforce-bgp-mdt-safi	Depend on BGP MDT SAFI for auto-discovery

Command Mode

- /exec/configure/vrf

mdt mtu

[no] mdt mtu <mtu-value>

Syntax Description

no	(Optional) Negate a command or set its defaults
mdt	Backbone Multicast Distribution Tree
mtu	The MTU
<i>mtu-value</i>	MTU value

Command Mode

- /exec/configure/vrf

mdt pim hello-interval

[no] mdt pim hello-interval <interval>

Syntax Description

no	(Optional) Negate a command or set its defaults
mdt	Backbone Multicast Distribution Tree
pim	PIM protocol related parameters
hello-interval	Hello interval used between peers
<i>interval</i>	Interval in milliseconds

Command Mode

- /exec/configure/vrf

mdt pim jp-interval

[no] mdt pim jp-interval <interval>

Syntax Description

no	(Optional) Negate a command or set its defaults
mdt	Backbone Multicast Distribution Tree
pim	PIM protocol related parameters
jp-interval	Join-Prune interval used between peers
<i>interval</i>	Interval in seconds

Command Mode

- /exec/configure/vrf

mdt source

[no] mdt source <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
mdt	Backbone Multicast Distribution Tree
source	Source interface to be used in the backbone network
<i>interface</i>	Use IP address of this interface

Command Mode

- /exec/configure/vrf

media-type auto

media-type auto

Syntax Description

media-type	Select the media-type link
auto	Select mgmt port as auto

Command Mode

- /exec/configure/if-mgmt-ether

media-type rj45

media-type rj45

Syntax Description

media-type	Select the media-type link
rj45	Select mgmt port rj45

Command Mode

- /exec/configure/if-mgmt-ether

media-type sfp

media-type sfp

Syntax Description

media-type	Select the media-type link
sfp	Select mgmt port sfp

Command Mode

- /exec/configure/if-mgmt-ether

medium

medium <medium-type> | no medium <medium-type>

Syntax Description

no	Negate a command or set its defaults
medium	Configure Interface medium mode
<i>medium-type</i>	

Command Mode

- /exec/configure/if-vlan-common

medium broadcast

{ medium broadcast | no medium broadcast }

Syntax Description

no	Negate a command or set its defaults
medium	Configure Interface medium mode
broadcast	Broadcast medium

Command Mode

- /exec/configure/ppm-ethernet-switch /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p

medium broadcast

{ medium broadcast | no medium broadcast }

Syntax Description

no	Negate a command or set its defaults
medium	Configure Interface medium mode
broadcast	Broadcast medium

Command Mode

- /exec/configure/if-ethernet-p2p-switch /exec/configure/if-ethernet-p2p /exec/configure/if-ethernet-all /exec/configure/if-eth-l3-non-member /exec/configure/if-port-channel /exec/configure/if-remote-ethernet-sub /exec/configure/if-eth-port-channel-p2p /exec/configure/if-ethernet-p2p-m

medium p2p

{ medium p2p | no medium p2p }

Syntax Description

no	Negate a command or set its defaults
medium	Configure Interface medium mode
p2p	Point-to-Point medium

Command Mode

- /exec/configure/ppm-ethernet-switch /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p /exec/configure/if-port-channel-sub

medium p2p

{ medium p2p | no medium p2p }

Syntax Description

no	Negate a command or set its defaults
medium	Configure Interface medium mode
p2p	Point-to-Point medium

Command Mode

- /exec/configure/if-ethernet-p2p-switch /exec/configure/if-ethernet-p2p /exec/configure/if-ethernet-all /exec/configure/if-eth-l3-non-member /exec/configure/if-port-channel /exec/configure/if-remote-ethernet-sub /exec/configure/if-eth-port-channel-p2p /exec/configure/if-ethernet-p2p-m

member vni

[no] member vni <vni-range>

Syntax Description

no	(Optional) Negate a command or set its defaults
member	NVE VN-Segment Membership
vni	Virtual Network Identifier
<i>vni-range</i>	vni range, Example: 5000 or 5001-5008

Command Mode

- /exec/configure/if-nve

member vni associate-vrf

[no] member vni <vni-range> associate-vrf

Syntax Description

no	(Optional) Negate a command or set its defaults
member	NVE VN-Segment Membership
vni	Virtual Network Identifier
<i>vni-range</i>	vni range, Example: 5000 or 5001-5008
associate-vrf	Associate vni with a vrf

Command Mode

- /exec/configure/if-nve

member vni mcast-group

[no] member vni <vni-range> mcast-group <maddr1> [<maddr2>]

Syntax Description

no	(Optional) Negate a command or set its defaults
member	NVE VN-Segment Membership
vni	Virtual Network Identifier
<i>vni-range</i>	vni range, Example: 5000 or 5001-5008
mcast-group	NVE Multicast Group
<i>maddr1</i>	Multicast IP Prefix
<i>maddr2</i>	(Optional) Multicast IP Prefix

Command Mode

- /exec/configure/if-nve

merge config

merge config <from-file> [show-only]

Syntax Description

merge	merge
config	merge configuration (to running-config)
<i>from-file</i>	the file containing the destination configuration, a patch will be created and applied to the running-config's matching section (format according to 'show run section' command output)
show-only	(Optional) only show the patch, don't execute it

Command Mode

- /exec

message-digest-key md5

```
{ { message-digest-key <keyid> md5 <key> } | { no message-digest-key [ <keyid> md5 <key> ] } }
```

Syntax Description

no	Negate a command or set its defaults
message-digest-key	Message digest authentication password (key)
<i>keyid</i>	Key ID
md5	Use MD5 algorithm
<i>key</i>	The OSPF password (key)

Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

message-digest-key md5

```
{ { message-digest-key <keyid> md5 <key> } | { no message-digest-key [ <keyid> md5 <key> ] } }
```

Syntax Description

no	Negate a command or set its defaults
message-digest-key	Message digest authentication password (key)
<i>keyid</i>	Key ID
md5	Use MD5 algorithm
<i>key</i>	OSPF password (key)

Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

metric-style transition

[no] metric-style { transition }

Syntax Description

no	(Optional) Negate a command or set its defaults
metric-style	Configure metric style used in advertised LSPs
transition	Use both narrow and wide metric style

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

metric direct 0

[no] metric direct 0

Syntax Description

no	(Optional) Negate a command or set its defaults
metric	Cost of direct routes
direct	Cost of direct routes
0	direct route cost is zero to be compatible with IOS

Command Mode

- /exec/configure/router-rip

metric maximum-hops

{ { metric maximum-hops <hops> } | { no metric maximum-hops [<hops>] } }

Syntax Description

no	Negate a command or set its defaults
metric	Modify EIGRP routing metrics and parameters
maximum-hops	Advertise EIGRP routes greater than <hops> as unreachable
<i>hops</i>	Hop count

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

metric rib-scale

```
{ { metric rib-scale <rib-scale> } | { no metric rib-scale [ <rib-scale> ] } }
```

Syntax Description

no	Negate a command or set its defaults
metric	Modify EIGRP routing metrics and parameters
rib-scale	Defines RIB scaling value
<i>rib-scale</i>	Rib scale

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

metric version 64bit

{ { metric version 64bit } | { no metric version [64bit] } }

Syntax Description

no	Negate a command or set its defaults
metric	Modify EIGRP routing metrics and parameters
version	Modify EIGRP metric version
64bit	64 bit metric version

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

metric weights

```
{ { metric weights <tos> <k1> <k2> <k3> <k4> <k5> [ <k6> ] } | { no metric weights [ <tos> <k1> <k2> <k3> <k4> <k5> [ <k6> ] ] } }
```

Syntax Description

no	Negate a command or set its defaults
metric	Modify EIGRP routing metrics and parameters
weights	Modify EIGRP metric coefficients
<i>tos</i>	Type Of Service (Only TOS 0 supported)
<i>k1</i>	K1
<i>k2</i>	K2
<i>k3</i>	K3
<i>k4</i>	K4
<i>k5</i>	K5
<i>k6</i>	(Optional) K6

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

mgmt-policy

```
{ no mgmt-policy <policy-name> } | { mgmt-policy <policy-name> { permit | deny } [ [ ip { <ip-addr> [ <ip-mask> ] } ] | [ ip6 <ipv6-prefix> ] ] [ protocol { tcp | udp | icmp } ] [ src-port <srcport> [ <srcport-end> ] ] [ dest-port <dstport> [ <dstport-end> ] ] }
```

Syntax Description

no	Negate a command or set its defaults
mgmt-policy	PM Management Policy
<i>policy-name</i>	Name of the policy
permit	Permit access
deny	Deny access
ip	(Optional) IPV4 address
<i>ip-addr</i>	(Optional) IPV4 source address/subnet
<i>ip-mask</i>	(Optional) IPV4 mask
ip6	(Optional) IPV6 Address
protocol	(Optional) Protocol
tcp	(Optional) TCP protocol
udp	(Optional) UDP protocol
icmp	(Optional) ICMP protocol
src-port	(Optional) Source port
<i>srcport</i>	(Optional) Source port
<i>srcport-end</i>	(Optional) Source Port end
dest-port	(Optional) Destination port
<i>dstport</i>	(Optional) Destination port
<i>dstport-end</i>	(Optional) Destination Port end

Command Mode

- /exec/configure

mkdir

mkdir <uri0>

Syntax Description

mkdir	Create new directory
<i>uri0</i>	Directory name

Command Mode

- /exec

mode

[no] mode <mode-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
mode	Hot-standby mode
<i>mode-id</i>	Node Mode

Command Mode

- /exec/configure/itd-dg-node

mode

[no] mode <mode-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
mode	Configure Hot-standby mode for a node
<i>mode-id</i>	Mode of node

Command Mode

- /exec/configure/plb-dg-node

mode openflow

[no] mode openflow

Syntax Description

no	(Optional) Negate a command or set its defaults
mode	Configure the interface operational mode
openflow	Disable/Enable openflow on the interface

Command Mode

- /exec/configure/if-port-channel /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-ethernet-switch

mode tap-aggregation

[no] mode tap-aggregation

Syntax Description

no	(Optional) Negate a command or set its defaults
mode	Configure the interface operational mode
tap-aggregation	Disable/Enable tap aggregation on the interface

Command Mode

- /exec/configure/if-switching

monitor erspan granularity

[no] monitor erspan granularity { 100_us | 100_ns | 1588 | ns }

Syntax Description

no	(Optional) Negate a command or set its defaults
monitor	Configure Ethernet SPAN sessions
erspan	Configure Ethernet ERSPAN sessions
granularity	Configure granularity for ERSPAN Type III sessions
100_us	100 microseconds
100_ns	100 nanoseconds
1588	1588 in seconds/nanoseconds
ns	nanoseconds

Command Mode

- /exec/configure

monitor erspan origin ip-address

[no] monitor erspan origin ip-address <ip> [global]

Syntax Description

no	(Optional) Negate a command or set its defaults
monitor	Configure Ethernet SPAN sessions
erspan	Configure Ethernet ERSPAN sessions
origin	Configure the erspan origin ip address
ip-address	Configure global origin IP address
<i>ip</i>	
global	(Optional) Configure in default VDC across all VDCs

Command Mode

- /exec/configure

monitor erspan switch-id

[no] monitor erspan switch-id <switch_id>

Syntax Description

no	(Optional) Negate a command or set its defaults
monitor	Configure Ethernet SPAN sessions
erspan	Configure Ethernet ERSPAN sessions
switch-id	Configure the erspan switch-id
<i>switch_id</i>	erspan-switch-id

Command Mode

- /exec/configure

mount slot0

mount slot0:

Syntax Description

mount	mount expansion flash or USB storage
slot0:	mount expansion flash

Command Mode

- /exec

move

move <uri0> <uri1>

Syntax Description

move	Move files
<i>uri0</i>	Source file path
<i>uri1</i>	Destination file path

Command Mode

- /exec

mping

mping [{ broadcast | lc module <i0> | sup module <i1> }]

Syntax Description

mping	run mping
broadcast	(Optional) mping broadcast
lc	(Optional) mping line-cards
module	(Optional) slot information
<i>i0</i>	(Optional)
sup	(Optional) mping supervisor
module	(Optional) slot information
<i>i1</i>	(Optional)

Command Mode

- /exec

mpls ip

[no] mpls ip

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	MPLS configuration commands
ip	Enable IP over MPLS

Command Mode

- /exec/configure/if-igp /exec/configure/if-mpls-tunnel

mpls ip default-route

[no] mpls ip default-route

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	MPLS configuration commands
ip	Dynamic MPLS forwarding for IP
default-route	Allow MPLS forwarding for ip default route

Command Mode

- /exec/configure/ldp

mpls ip forwarding

[no] mpls ip forwarding

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	MPLS configuration commands
ip	Enable IP over MPLS
forwarding	Enable MPLS forwarding on the interface

Command Mode

- /exec/configure/if-ethernet /exec/configure/if-ethernet-all /exec/configure/if-ether-sub
/exec/configure/if-eth-port-channel /exec/configure/if-port-channel-sub
/exec/configure/if-port-channel-range /exec/configure/if-vlan-common /exec/configure/if-mvpn
/exec/configure/if-p2p exec/configure/ppm-ethernet-switch

mpls ip forwarding

[no] mpls ip forwarding

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	MPLS configuration commands
ip	Enable IP over MPLS
forwarding	Enable MPLS forwarding on the interface

Command Mode

- /exec/configure/if-gre-tunnel

mpls ip propagate-ttl

mpls ip propagate-ttl | no mpls ip propagate-ttl [forwarded | local]

Syntax Description

no	Negate a command or set its defaults
mpls	MPLS configuration commands
ip	Configure IP features
propagate-ttl	Configure IP ttl propagation over mpls
forwarded	(Optional) Prevent traceroute from showing the hops for forwarded packets
local	(Optional) Prevent traceroute from showing the hops only for local packets

Command Mode

- /exec/configure

mpls ip static

[no] mpls ip static

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	MPLS configuration commands
ip	Enable IP over MPLS
static	Enable IP over MPLS statically

Command Mode

- /exec/configure/if-gre-tunnel

mpls ip static

[no] mpls ip static

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	MPLS configuration commands
ip	Enable IP over MPLS
static	Enable IP over MPLS statically

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel

mpls ip ttl-expiration pop

[no] mpls ip ttl-expiration pop [<labels>]

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	MPLS configuration commands
ip	Configure IP features
ttl-expiration	Configure ttl-expiration
pop	Pop
<i>labels</i>	(Optional) Number of labels

Command Mode

- /exec/configure

mpls label-space

[no] mpls label-space

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	MPLS configuration commands
label-space	create label space

Command Mode

- /exec/configure

mpls label range

[no] mpls label range <min-label> <max-label> [static <min-static-label> <max-static-label>]

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	MPLS configuration commands
label	Label properties
range	Label range
<i>min-label</i>	Minimum label value
<i>max-label</i>	Maximum label value
static	(Optional) Specify block of labels for static bindings
<i>min-static-label</i>	(Optional) Minimum static label value
<i>max-static-label</i>	(Optional) Maximum static label value

Command Mode

- /exec/configure

mpls oam

[no] mpls oam

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	MPLS configuration commands
oam	OAM configuration

Command Mode

- /exec/configure

mpls static binding ipv4

```
mpls static binding ipv4 { [ vrf { <vrf-name> | <vrf-known-name> } ] { <prefix> <mask> | <prefix-mask> }
[ input ] <static-inlabel> | { <prefix> <mask> | <prefix-mask> } output <next-hop> { <static-outlabel> |
explicit-null | implicit-null } } | no mpls static binding ipv4 { [ [ vrf { <vrf-name> | <vrf-known-name> } ] [
{ <prefix> <mask> | <prefix-mask> } { [ input [ <static-inlabel> ] ] | [ <static-inlabel> ] } ] ] | [ { <prefix>
<mask> | <prefix-mask> } [ output [ <next-hop> [ { <static-outlabel> | explicit-null | implicit-null } ] ] ] ] }
```

Syntax Description

no	Negate a command or set its defaults
mpls	MPLS configuration commands
static	MPLS static application
binding	Establish static label bindings
ipv4	Bind IPv4 destination with label
vrf	(Optional) VPN Routing/Forwarding instance name
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>prefix</i>	Destination prefix
<i>mask</i>	Destination prefix mask
<i>prefix-mask</i>	Destination prefix/mask
input	(Optional) Incoming (local) label
<i>static-inlabel</i>	Label Value
output	Outgoing (remote) label
<i>next-hop</i>	Destination next hop
<i>static-outlabel</i>	Label Value
explicit-null	IETF MPLS IPv4 explicit null label (0)
implicit-null	IETF MPLS implicit null label (3)

Command Mode

- /exec/configure/ldp

mpls static binding ipv4 vrf per-vrf input output pop-and-lookup

```
mpls static binding ipv4 vrf { <vrf-name> | <vrf-known-name> } per-vrf input <static-inlabel> output
pop-and-lookup | no mpls static binding ipv4 vrf { <vrf-name> | <vrf-known-name> } per-vrf input
<static-inlabel> output pop-and-lookup
```

Syntax Description

no	Negate a command or set its defaults
mpls	MPLS configuration commands
static	MPLS static application
binding	Establish static label bindings
ipv4	Bind IPv4 destination with label
vrf	VPN Routing/Forwarding instance name
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name
per-vrf	Per-VRF information
input	Incoming (local) label
<i>static-inlabel</i>	Label Value
output	Outgoing information
pop-and-lookup	Pop label and perform a lookup

Command Mode

- /exec/configure/ldp

mpls static configuration

[no] mpls static configuration

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	MPLS configuration commands
static	Configure Static Label Bindings
configuration	Enter MPLS Static global configuration submode

Command Mode

- /exec/configure

mpls strip

mpls strip { { poll-timer <timeout> } | { dest-mac <mac-addr> } | { threshold <low> <high> } | { label-age <age> [sec | min | hrs | days] } } | no mpls strip { poll-timer | dest-mac | threshold | label-age }

Syntax Description

no	Negate a command or set its defaults
mpls	Configure MPLS settings
strip	Stripping of MPLS headers
poll-timer	Timer to poll for stats
<i>timeout</i>	Time in seconds to poll for stats
threshold	For when to delete aged labeld
<i>low</i>	Lower Threshold
<i>high</i>	Higher Threshold
label-age	label Age
<i>age</i>	Label age
sec	(Optional) Time in Seconds - default
min	(Optional) Time in Minutes
hrs	(Optional) Time in Hours
days	(Optional) Time in Days
dest-mac	Destination MAC address for egress frames
<i>mac-addr</i>	MAC Address

Command Mode

- /exec/configure

mpls strip

[no] mpls strip

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	Configure MPLS settings
strip	Stripping of MPLS headers

Command Mode

- /exec/configure

mpls strip label

[no] mpls strip label { <value> } [interface <interface-name>] | no mpls strip label all

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	Configure MPLS settings
strip	Stripping of MPLS headers
label	Add a static label in database
<i>value</i>	20 bit value for label
all	Delete all static labels
interface	(Optional) Interface
<i>interface-name</i>	(Optional) Interface name

Command Mode

- /exec/configure

mpls traffic-eng

[no] mpls traffic-eng <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	Configure MPLS parameters
traffic-eng	Routing protocol commands for MPLS Traffic Engineering (TE)
<i>level</i>	IS-IS level

Command Mode

- /exec/configure/router-isis

mpls traffic-eng administrative-weight

mpls traffic-eng administrative-weight <num> | no mpls traffic-eng administrative-weight

Syntax Description

no	Negate a command or set its defaults
mpls	MPLS configuration commands
traffic-eng	Configure Traffic Engineering parameters
administrative-weight	Set the administrative weight for the interface
<i>num</i>	Weight

Command Mode

- /exec/configure/if-igp /exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p

mpls traffic-eng area

[no] mpls traffic-eng area <area-id-ip>

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	OSPF MPLS configuration commands
traffic-eng	OSPF MPLS Traffic Engineering commands
area	Configure area properties
<i>area-id-ip</i>	Area Id as an integer or ip address

Command Mode

- /exec/configure/router-ospf

mpls traffic-eng attribute-flags

mpls traffic-eng attribute-flags <value> | no mpls traffic-eng attribute-flags

Syntax Description

no	Negate a command or set its defaults
mpls	MPLS configuration commands
traffic-eng	Configure Traffic Engineering parameters
attribute-flags	Set user-defined interface attribute flags
<i>value</i>	Attribute flags

Command Mode

- /exec/configure/if-igp /exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p

mpls traffic-eng backup-path

[no] mpls traffic-eng backup-path [<tunnel-num>] | mpls traffic-eng backup-path <tunnel-num>

Syntax Description

no	Negate a command or set its defaults
mpls	MPLS configuration commands
traffic-eng	Configure Traffic Engineering parameters
backup-path	Configure an MPLS TE backup for this interface
<i>tunnel-num</i>	(Optional)

Command Mode

- /exec/configure/if-igp /exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p

mpls traffic-eng bandwidth

[no] mpls traffic-eng bandwidth | mpls traffic-eng bandwidth [percent <percentage> | <bw-kbps>]

Syntax Description

no	Negate a command or set its defaults
mpls	MPLS configuration commands
traffic-eng	Configure Traffic Engineering parameters
bandwidth	RSVP Reservable Bandwidth (kbps)
percent	(Optional) Specify a percentage of interface bandwidth
<i>percentage</i>	(Optional) Percentage of bandwidth
<i>bw-kbps</i>	(Optional) Reservable Bandwidth (kbps)

Command Mode

- /exec/configure/if-igp /exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p

mpls traffic-eng configuration

mpls traffic-eng configuration

Syntax Description

mpls	MPLS configuration commands
traffic-eng	Traffic engineering commands
configuration	Enter Traffic Engineering global configuration submode

Command Mode

- /exec/configure

mpls traffic-eng fast-reroute promote

[no] mpls traffic-eng fast-reroute promote

Syntax Description

no	(Optional) Negate a command or set its defaults
fast-reroute	fast-reroute command
promote	promote to a better backup tunnel
mpls	MPLS configuration commands
traffic-eng	Traffic engineering commands

Command Mode

- /exec

mpls traffic-eng multicast-intact

[no] mpls traffic-eng multicast-intact

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	Configure MPLS parameters
traffic-eng	Routing protocol commands for MPLS Traffic Engineering (TE)
multicast-intact	Configure MPLS-TE multicast interaction

Command Mode

- /exec/configure/router-isis

mpls traffic-eng multicast-intact

[no] mpls traffic-eng multicast-intact

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	OSPF MPLS configuration commands
traffic-eng	OSPF MPLS Traffic Engineering commands
multicast-intact	MPLS TE multicast support

Command Mode

- /exec/configure/router-ospf

mpls traffic-eng reoptimize

[no] mpls traffic-eng reoptimize [<tunnel-num>]

Syntax Description

no	(Optional) Negate a command or set its defaults
reoptimize	reoptimize traffeng tunnels
<i>tunnel-num</i>	(Optional)
mpls	MPLS configuration commands
traffic-eng	Traffic engineering commands

Command Mode

- /exec

mpls traffic-eng router-id

[no] mpls traffic-eng router-id <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	Configure MPLS parameters
traffic-eng	Routing protocol commands for MPLS Traffic Engineering (TE)
router-id	Routing protocol commands for MPLS Traffic Engineering (TE)
<i>interface</i>	IS-IS interface

Command Mode

- /exec/configure/router-isis

mpls traffic-eng router-id

[no] mpls traffic-eng router-id <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	OSPF MPLS configuration commands
traffic-eng	OSPF MPLS Traffic Engineering commands
router-id	Router ID associated with TE
<i>interface</i>	Routable Interface

Command Mode

- /exec/configure/router-ospf

mpls traffic-eng tunnels

[no] mpls traffic-eng tunnels

Syntax Description

no	(Optional) Negate a command or set its defaults
mpls	MPLS configuration commands
traffic-eng	Configure Traffic Engineering parameters
tunnels	enable MPLS Traffic Engineering tunnels

Command Mode

- /exec/configure/if-igp /exec/configure/if-eth-port-channel /exec/configure/if-eth-port-channel-p2p

mst designated priority

mst <mst-id> designated priority <prio> | no mst <mst-id> designated priority [<prio>]

Syntax Description

no	Negate a command or set its defaults
mst	Multiple spanning tree configuration
<i>mst-id</i>	MST instance range, example: 0-3,5,7-9
designated	Set the designated bridge priority for the spanning tree
priority	Set the bridge priority for the spanning tree
<i>prio</i>	bridge priority in increments of 4096

Command Mode

- /exec/configure/spanning-tree/pseudo

mst root priority

mst <mst-id> root priority <prio> | no mst <mst-id> root priority [<prio>]

Syntax Description

no	Negate a command or set its defaults
mst	Multiple spanning tree configuration
<i>mst-id</i>	MST instance range, example: 0-3,5,7-9
root	Set the root bridge priority for the spanning tree
priority	Set the bridge priority for the spanning tree
<i>prio</i>	bridge priority in increments of 4096

Command Mode

- /exec/configure/spanning-tree/pseudo

mtu

mtu <mtu_val> | no mtu [<mtu_val>]

Syntax Description

no	Negate a command or set its defaults
mtu	Configure mtu for the port
<i>mtu_val</i>	

Command Mode

- /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p /exec/configure/if-port-channel-sub /exec/configure/if-sub /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

mtu1

[no] mtu1 <value>

Syntax Description

no	(Optional) Negate a command or set its defaults
mtu1	MTU for the CoS
<i>value</i>	MTU value

Command Mode

- /exec/configure/policy-map/type/uf/class

mtu

mtu <mtu_val> | no mtu

Syntax Description

no	Negate a command or set its defaults
mtu	Set the interface Maximum Transmission Unit (MTU)
<i>mtu_val</i>	MTU size in bytes

Command Mode

- /exec/configure/if-vlan-common

mtu

mtu <mtu-val> | no mtu [<mtu-val>]

Syntax Description

no	Negate a command or set its defaults
mtu	Configure MTU
<i>mtu-val</i>	Bytes

Command Mode

- /exec/configure/if-any-tunnel

mtu

[no] mtu <value>

Syntax Description

no	(Optional) Negate a command or set its defaults
mtu	MTU for the CoS
<i>value</i>	MTU value

Command Mode

- /exec/configure/policy-map/type/uf/class

multi-topology

[no] multi-topology [transition]

Syntax Description

no	(Optional) Negate a command or set its defaults
multi-topology	Enable multitolpoly for IPV6
transition	(Optional) Configure multitolpoly transition mode

Command Mode

- /exec/configure/router-isis/router-isis-af-ipv6

multisite border-gateway interface

[no] multisite border-gateway interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
multisite	VxLAN Multisite
border-gateway	VxLAN Multisite Border-gateway
interface	NVE Multisite Border-gateway Interface
<i>interface</i>	

Command Mode

- /exec/configure/if-nve

multisite ingress-replication

[no] multisite ingress-replication

Syntax Description

no	(Optional) Negate a command or set its defaults
multisite	multisite ingress replication
ingress-replication	Configure ingress replication

Command Mode

- /exec/configure/if-nve/vni



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name-lookup

[no] name-lookup

Syntax Description

no	(Optional) Negate a command or set its defaults
name-lookup	Display OSPF router ids as DNS names

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

name-lookup

[no] name-lookup

Syntax Description

no	(Optional) Negate a command or set its defaults
name-lookup	Enable Name Lookup for OSPF Neighbors

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

name

name <redundancy-name> | no name [<redundancy-name>]

Syntax Description

no	Negate a command or set its defaults
name	Redundancy name
<i>redundancy-name</i>	Name String

Command Mode

- /exec/configure/if-eth-any/glbp

name

name [<name>] | no name

Syntax Description

no	Negate a command or set its defaults
name	Redundancy name string
<i>name</i>	(Optional) name string

Command Mode

- /exec/configure/if-eth-any/hsrp_ipv4 /exec/configure/if-eth-any/hsrp_ipv6

name

name <name-val> | no name [<name-val>]

Syntax Description

no	Negate a command or set its defaults
name	Set configuration name
<i>name-val</i>	Configuration name

Command Mode

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

nat destination

{ nat destination } | { no nat destination }

Syntax Description

no	Negate a command or set its defaults
nat	Network Address Translation
destination	Destination NAT

Command Mode

- /exec/configure/itd

nat destination

{ nat destination } | { no nat destination }

Syntax Description

no	Negate a command or set its defaults
nat	Network Address Translation
destination	Destination NAT

Command Mode

- /exec/configure/plb

nbm flow acceptance-mode guaranteed nbm flow acceptance-mode

{ nbm flow acceptance-mode { guaranteed | best-fit } } | [no] nbm flow acceptance-mode

Syntax Description

nbm	Non Blocking Multicast
flow	Flow Characteristics
acceptance-mode	Flow Acceptance Mode
guaranteed	New flows are guaranteed to be accepted
best-fit	New flows are best-fit among fabric links

Command Mode

- /exec/configure

nbm flow bandwidth nbm flow bandwidth

{ nbm flow bandwidth <i0> } | [no] nbm flow bandwidth

Syntax Description

nbm	Non Blocking Multicast
flow	Flow Characteristics
bandwidth	Bandwidth per flow
<i>i0</i>	Per Flow Bandwidth in Mbps

Command Mode

- /exec/configure

nbm mode controller

[no] nbm mode controller [__readonly__ <output>]

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	non blocking multicast
mode	set pmn mode
controller	enable controller-mode for pmn
__readonly__	(Optional)
<i>output</i>	(Optional)

Command Mode

- /exec/configure

nbm mode flow

[no] nbm mode flow

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking multicast
mode	Set NBM flow mode
flow	Flow Characteristics

Command Mode

- /exec/configure

nbm mode verbose

[no] nbm mode verbose

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	Non Blocking multicast
mode	Set NBM flow mode
verbose	Enable verbose Logs

Command Mode

- /exec/configure

nbm multicast route add

[no] nbm multicast route add

Syntax Description

nbm	NBM Commands
multicast	MULTICAST
route	Route
add	add

Command Mode

- /exec/configure

nbm multicast route delete

[no] nbm multicast route delete

Syntax Description

nbm	NBM Commands
multicast	MULTICAST
route	Route
delete	delete

Command Mode

- /exec/configure

nbm switch-role border-leaf nbm switch-role border-leaf

{ nbm switch-role border-leaf } | [no] nbm switch-role border-leaf

Syntax Description

nbm	Non Blocking Multicast
switch-role	Switch Role
border-leaf	Border Leaf

Command Mode

- /exec/configure

nbm test-rest-api secure request-type

nbm test-rest-api { secure | plain } request-type { POST | GET | PUT | DELETE }

Syntax Description

nbm	nbm
test-rest-api	Test REST API
secure	Over HTTPS
plain	Over plain HTTP
request-type	type of http request
POST	HTTP POST
GET	HTTP GET
PUT	HTTP PUT
DELETE	HTTP DELETE

Command Mode

- /exec

nbm unit-test all

nbm unit-test all

Syntax Description

nbm	nbm
unit-test	unit test
all	perform all unit tests

Command Mode

- /exec/configure

nbm vpc transport-vlan

[no] nbm vpc transport-vlan <vlan_id>

Syntax Description

no	(Optional) Negate a command or set its defaults
nbm	non blocking multicast
vpc	nbm vpc related commands
transport-vlan	configure nbm vpc transport vlan
<i>vlan_id</i>	vlan value

Command Mode

- /exec/configure

negotiate auto

negotiate auto | no negotiate auto

Syntax Description

no	Negate a command or set its defaults
negotiate	Configure link negotiation parameters
auto	Configure auto-negotiation

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

neighbor-down fib-accelerate

[no] neighbor-down fib-accelerate

Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor-down	Handle BGP neighbor down event, due to various reasons
fib-accelerate	Accelerate the hardware updates for IP/IPv6 adjacencies for neighbor

Command Mode

- /exec/configure/router-bgp/vrf-cmds

neighbor

[no] neighbor { <neighbor-id> | <ipv6-neighbor-id> } [remote-as <asn>]

Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>neighbor-id</i>	IP address of the neighbor
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number

Command Mode

- /exec/configure/router-bgp

neighbor

[no] neighbor { <neighbor-id> | <ipv6-neighbor-id> } [remote-as <asn>]

Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>neighbor-id</i>	IP address of the neighbor
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf

neighbor

```
[no] neighbor { <neighbor-prefix> | <ipv6-neighbor-prefix> } [ remote-as [ <asn> | route-map <rmap-name> ] ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>neighbor-prefix</i>	IP prefix for neighbors
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number
route-map	(Optional) Route-map to match prefix peer AS number
<i>rmap-name</i>	(Optional) Route-map name

Command Mode

- /exec/configure/router-bgp

neighbor

```
[no] neighbor { <neighbor-prefix> | <ipv6-neighbor-prefix> } [ remote-as [ <asn> | route-map <rmap-name> ] ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
neighbor	Configure a BGP neighbor
<i>neighbor-prefix</i>	IP prefix for neighbors
remote-as	(Optional) Specify Autonomous System Number of the neighbor
<i>asn</i>	(Optional) Autonomous System Number
route-map	(Optional) Route-map to match prefix peer AS number
<i>rmap-name</i>	(Optional) Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-vrf

neighbor

neighbor [vrf { <vrf-name> | <vrf-known-name> }] <ipaddr> { implicit-withdraw | labels accept <pfx-list> | targeted } | no neighbor [vrf { <vrf-name> | <vrf-known-name> }] <ipaddr> [implicit-withdraw | labels accept | targeted]

Syntax Description

no	Negate a command or set its defaults
neighbor	Configure neighbor parameters
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
<i>ipaddr</i>	IP address for LDP neighbor
implicit-withdraw	Enable LDP Implicit Withdraw Label
labels	Configure label binding exchange controls
accept	Specify label bindings to accept
<i>pfx-list</i>	Name of prefix list
targeted	Establish targeted session

Command Mode

- /exec/configure/ldp

neighbor maximum-prefix

```
{ { neighbor <address> { <interface> | maximum-prefix <value> [ warning-only ] } } | { no neighbor <address>
[ <interface> | maximum-prefix <value> [ warning-only ] ] } } | { { neighbor maximum-prefix <value> [
<threshold> ] [ warning-only ] [ restart <time1> ] [ restart-count <count> ] [ reset-time <time2> ] [ dampened
] } | { no neighbor maximum-prefix [ <value> [ <threshold> ] [ warning-only ] [ restart <time1> ] [ restart-count
<count> ] ] } }
```

Syntax Description

no	Negate a command or set its defaults
neighbor	Specify a neighbor router
<i>interface</i>	Interface
<i>address</i>	Neighbor address
maximum-prefix	Maximum number of IP prefixes acceptable from a neighbor
<i>value</i>	Number of IP prefixes for maximum-prefix limit
<i>threshold</i>	(Optional) Threshold value (%) at which to generate a warning message
warning-only	(Optional) Only give warning message when limit is exceeded
restart	(Optional) Duration for which a prefix source is ignored
<i>time1</i>	(Optional) Restart interval in minutes
restart-count	(Optional) Number of times sessions are auto-restarted
<i>count</i>	(Optional) Number of times
reset-time	(Optional) Duration after which restart history is cleared
<i>time2</i>	(Optional) Reset time in minutes
dampened	(Optional) Exponentially increase restart time interval

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

net

[no] net <net>

Syntax Description

no	(Optional) Negate a command or set its defaults
net	Configure Network Entity Title for IS-IS
<i>net</i>	NET in form of XX.XXXX.XXXX[.00]

Command Mode

- /exec/configure/otv-isis

net

[no] net <net>

Syntax Description

no	(Optional) Negate a command or set its defaults
net	Configure Network Entity Title for IS-IS
<i>net</i>	NET in form of XX.XXXX.XXXX[.00]

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

network

[no] network { <ip-addr> mask <ip-mask> | <ip-prefix> } [route-map <rmap-name> | summarize | evpn] +

Syntax Description

no	(Optional) Negate a command or set its defaults
network	Configure an IP prefix to advertise
<i>ip-addr</i>	IP network to advertise
mask	Configure the mask of the IP prefix to advertise
<i>ip-mask</i>	Dotted 4-octet mask
<i>ip-prefix</i>	IP prefix in CIDR format
route-map	(Optional) Apply route-map to modify attributes
<i>rmap-name</i>	(Optional) Route-map name
summarize	(Optional) Summarize more specific prefixes from routing table
evpn	(Optional) Only advertise route towards evpn side

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv4

network

[no] network <ipv6-prefix> [route-map <rmap-name> | summarize] +

Syntax Description

no	(Optional) Negate a command or set its defaults
network	Configure an IPv6 prefix to advertise
route-map	(Optional) Apply route-map to modify attributes
<i>rmap-name</i>	(Optional) Route-map name
summarize	(Optional) Summarize more specific prefixes from routing table

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6

network

[no] network { { <address> <mask> } | <prefix> }

Syntax Description

no	(Optional) Negate a command or set its defaults
network	Enable routing on an IP network
<i>address</i>	Network number
<i>mask</i>	EIGRP wild card bits
<i>prefix</i>	IP prefix in slash format

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-ipv4

network

[no] network { <ip-dest> <ip-mask> | <ip-prefix> }

Syntax Description

no	(Optional) Negate a command or set its defaults
network	RIP IP network
<i>ip-dest</i>	IP addr format
<i>ip-mask</i>	IP network mask format
<i>ip-prefix</i>	Exact prefix

Command Mode

- /exec/configure/router-rip/router-rip-af-ipv4 /exec/configure/router-rip/router-rip-vrf-af-ipv4

network area

[no] network { <ip-dest> <ip-mask> | <ip-prefix> } area { <area-id-ip> | <area-id-int> }

Syntax Description

no	(Optional) Negate a command or set its defaults
network	Enable routing on an IP network
<i>ip-dest</i>	IP prefix format: i.i.i.i
<i>ip-mask</i>	IP network mask format: m.m.m.m
<i>ip-prefix</i>	IP prefix format: x.x.x.x/ml
area	Configure area properties
<i>area-id-ip</i>	OSPF area ID in IP address format
<i>area-id-int</i>	OSPF area ID as a decimal format

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

next-address exclude-address

```
{ next-address [ loose | strict ] <ipaddr> | exclude-address <ipaddr> }
```

Syntax Description

next-address	Specify the next address in the path
loose	(Optional) Target address is loose
strict	(Optional) Target address is strict
exclude-address	Exclude an address from subsequent partial path segments
<i>ipaddr</i>	Enter IP address (A.B.C.D)

Command Mode

- /exec/configure/te/expl-path

next-hop-self

[no | default] next-hop-self

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
next-hop-self	Set our peering address as nexthop

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpn4
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpn6

next-hop-self

[no | default] next-hop-self

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
next-hop-self	Set our peering address as nexthop

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt

next-hop-third-party

[no | default] next-hop-third-party

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
next-hop-third-party	Compute a third-party nexthop if possible

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

next-hop-third-party

[no | default] next-hop-third-party

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
next-hop-third-party	Compute a third-party nexthop if possible

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt

next-hop out-label explicit-null implicit-null next-hop auto-resolve out-label explicit-null implicit-null

```
[no] { next-hop [ backup <interface> ] <next-hop> out-label { <static-outlabel> | explicit-null | implicit-null } | next-hop auto-resolve out-label { <static-outlabel> | explicit-null | implicit-null } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
next-hop	Nexthop
<i>next-hop</i>	Destination IPv4 next hop
<i>static-outlabel</i>	Label Value
<i>interface</i>	(Optional) Back up interface
out-label	Output label
explicit-null	IETF MPLS IPv4 explicit null label (0)
implicit-null	IETF MPLS implicit null label (3)
auto-resolve	auto resolve the destination path
backup	(Optional) Backup destination

Command Mode

- /exec/configure/mpls_static/ipv4/input

next-hop out-label explicit-null implicit-null next-hop auto-resolve out-label explicit-null implicit-null

```
[no] { next-hop [ backup <interface> ] <ipv6-next-hop> out-label { <static-outlabel> | explicit-null | implicit-null } } | next-hop auto-resolve out-label { <static-outlabel> | explicit-null | implicit-null } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
next-hop	Nexthop
<i>static-outlabel</i>	Label Value
<i>interface</i>	(Optional) Back up interface
out-label	Output label
explicit-null	IETF MPLS IPv6 explicit null label (2)
implicit-null	IETF MPLS implicit null label (3)
auto-resolve	auto resolve the destination path
backup	(Optional) Backup destination

Command Mode

- /exec/configure/mpls_static/ipv6/input

next hop route-map

[no] next hop route-map <map-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
next hop	Next hop tracking
route-map	Route map for valid next hops
<i>map-name</i>	Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-l2vpn-ipv4
/exec/configure/router-bgp/router-bgp-af-link-state /exec/configure/router-bgp/router-bgp-af-ipv4-mvpn
/exec/configure/router-bgp/router-bgp-af-ipv6-mvpn /exec/configure/router-bgp/router-bgp-af-ipv4-mdt
/exec/configure/router-bgp/router-bgp-af-l2vpn-vpls

nexthop trigger-delay critical non-critical

```
{ nexthop trigger-delay critical <criticaldelay> non-critical <noncriticaldelay> } | { no nexthop trigger-delay }
}
```

Syntax Description

no	Negate a command or set its defaults
nexthop	Nexthop tracking
trigger-delay	Set the delay to trigger nexthop tracking
critical	Nexthop changes affecting reachability
non-critical	Other nexthop changes
<i>noncriticaldelay</i>	Delay value (milliseconds)
<i>criticaldelay</i>	Delay value (milliseconds)

Command Mode

- /exec/configure/router-bgp/router-bgp-af /exec/configure/router-bgp/router-bgp-af-ipv4-mdt /exec/configure/router-bgp/router-bgp-af-ipv6-mdt /exec/configure/router-bgp/router-bgp-af-ipv4-vpnv4 /exec/configure/router-bgp/router-bgp-af-ipv6-vpnv6 /exec/configure/router-bgp/router-bgp-af-link-state /exec/configure/router-bgp/router-bgp-af-l2vpn-vpls /exec/configure/router-bgp/router-bgp-af-ipv4-mvpn /exec/configure/router-bgp/router-bgp-af-ipv6-mvpn /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

ngoam authentication-key

```
{ ngoam authentication-key <value> } | { no ngoam authentication-key [ <value> ] }
```

Syntax Description

no	Negate a command or set its defaults
ngoam	Configure ngoam
authentication-key	Ngoam authentication-key
<i>value</i>	authentication key

Command Mode

- /exec/configure

ngoam connect-check

[no] ngoam connect-check <id>

Syntax Description

no	(Optional) Negate a command or set its defaults
ngoam	Configure ngoam
connect-check	Configure ngoam oam connectivity check
<i>id</i>	connect check id

Command Mode

- /exec/configure

ngoam install acl

[no] ngoam install acl

Syntax Description

no	(Optional) Negate a command or set its defaults
ngoam	Configure ngoam
install	Ngoam install
acl	Ngoam install acl

Command Mode

- /exec/configure

ngoam install acl draft-pang action fwd

[no] ngoam install acl draft-pang action { fwd | drop }

Syntax Description

no	(Optional) Negate a command or set its defaults
ngoam	ngoam
install	Ngoam install
acl	Ngoam install acl
draft-pang	Ngoam install acl based on draft pang
action	Choose the action to perform
fwd	Copy and Forward the packet
drop	Copy and Drop the packet

Command Mode

- /exec/configure

ngoam probe start

ngoam probe start <hex-string>

Syntax Description

ngoam	ngoam exec command
probe	ngoam probe
start	start ngoam probe
<i>hex-string</i>	Specify string in hex string format: 0A1B .. starting with outer header of real draft pang probe packet

Command Mode

- /exec

ngoam profile

[no] ngoam profile <profile-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
ngoam	Configure ngoam
profile	Configure ngoam oam profile
<i>profile-id</i>	ngoam profile id

Command Mode

- /exec/configure

no-more

| no-more

Syntax Description

	Pipe command output to filter
no-more	Turn-off pagination for command output

Command Mode

- /output

no

[no] { userprofile | trustedCert | CRLLookup | user-switch-bind | user-certdn-match | user-pubkey-match }

Syntax Description

no	Negate a command or set its defaults
userprofile	Delete the userprofile
trustedCert	Delete the trustedCert
CRLLookup	Delete the CRLLookup
user-switch-bind	Delete the user-switch-bind
user-certdn-match	Delete the certificate matching
user-pubkey-match	Delete the pubkey matching

Command Mode

- /exec/configure/ldap/search

no

[no] <seqno>

Syntax Description

no	Negate a command or set its defaults
<i>seqno</i>	Sequence number

Command Mode

- /exec/configure/arpacl /exec/configure/ipgroup /exec/configure/ipv6group /exec/configure/portgroup /exec/configure/timerange

no

[no] <seqno>

Syntax Description

no	Negate a command or set its defaults
<i>seqno</i>	Sequence number

Command Mode

- /exec/configure/macac1

no

[no] <seqno>

Syntax Description

no	Negate a command or set its defaults
<i>seqno</i>	Sequence number

Command Mode

- /exec/configure/ipacl /exec/configure/ipv6acl

no

```
{ [ <seqno> ] | no } <permitdeny> { { { { ethertype <ethertypeid> } | { ip | <proto> | <ip_other_proto> } {
<src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp
<src_addrgrp_name> } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host>
} | { dst_key_addrgrp <dst_addrgrp_name> } } { { [ [ fragments ] | [ log ] [ time-range <time_range_name>
] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str>
} } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val> <udf_mask> } + } ] } + | { [ [ fragments ] | [ log ] [
time-range <time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } |
{ tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> } | { udf {
<udf_name> <udf_val> <udf_mask> } + } ] } + [ capture session <session-id> ] } } [ vlan <vlanid> |
ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid> ] + [ { udf { <udf_name> <udf_val>
<udf_mask> } + } ] } | { udf { <udf_name> <udf_val> <udf_mask> } + } } { [ <action> <actionid> ] } + [
log ]
```

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
ethertype	Configure match based on ethertype
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
<i>ethertypeid</i>	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
ip	Any IP protocol
<i>proto</i>	A protocol number
<i>ip_other_proto</i>	ip_other_proto
<i>src_any</i>	Any
<i>src_addr</i>	Source network address
<i>src_wild</i>	Source wildcard bits
<i>src_prefix</i>	Source network prefix

<i>src_key_host</i>	A single source host
<i>src_host</i>	Source address
<i>src_key_addrgrp</i>	Source address group
<i>src_addrgrp_name</i>	Address group name
<i>dst_any</i>	Any
<i>dst_addr</i>	Destination network address
<i>dst_wild</i>	Destination wildcard bits
<i>dst_prefix</i>	Destination network prefix
<i>dst_key_host</i>	A single destination host
<i>dst_host</i>	Destination address
<i>dst_key_addrgrp</i>	Destination address group
<i>dst_addrgrp_name</i>	Address group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>tos</i>	(Optional) Match packets with given TOS value
<i>tos_num</i>	(Optional) Type of service value
<i>tos_str</i>	(Optional) Type of service label
<i>precedence</i>	(Optional) Match packets with given precedence value
<i>prec_num</i>	(Optional) Precedence value
<i>prec_str</i>	(Optional) Precedence label
<i>fragments</i>	(Optional) Check non-initial fragments
<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length

<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
<i>ttl</i>	(Optional) Match Packets with a given TTL value
<i>ttl_num</i>	(Optional)
<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
<i>udf</i>	(Optional) User defined field match
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF value
<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/configure/ipacl

no

```
{ [ <seqno> ] no } <permitdeny> { { ethertype <ethertypeid> } | { <proto_tcp> { { { <src_any> | {
<src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name>
} } [ { { <src_port_op> { <src_port0> | <src_port0_str> } } | { <src_port_range> { <src_port1> |
<src_port1_str> } } { <src_port2> | <src_port2_str> } } | src_portgroup <src_port_group> } ] } <dst_any> | {
<dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name>
} } [ { { <dst_port_op> { <dst_port0> | <dst_port0_str> } } | { <dst_port_range> { <dst_port1> |
<dst_port1_str> } } { <dst_port2> | <dst_port2_str> } } | dst_portgroup <dst_port_group> } ] } [ [ urg | ack |
psh | rst | syn | fin | established | [ log ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0>
| <plen_range> <plen1> <plen2> } } | { dscp { <dscp_num> | <dscp_str> } } | { http-method { <opt_num> |
<opt_str> } } | { tcp-option-length <tcp_opt_len> } | { tcp-flags-mask <tcp_flags_mask> } | { ttl <ttl_num>
} ] } + | { [ urg | ack | psh | rst | syn | fin | established | [ log ] [ time-range <time_range_name> ] | packet-length
{ <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { tos { <tos_num> | <tos_str> } } | { precedence
{ <prec_num> | <prec_str> } } | { ttl <ttl_num> } ] } + } [ { udf { <udf_name> <udf_val> <udf_mask> } +
} ] } | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | {
src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | {
dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } { [ [ fragments ] | [ log ] [ time-range
<time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { dscp {
<dscp_num> | <dscp_str> } } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val> <udf_mask> } + } ] } + |
{ [ [ fragments ] | [ log ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range>
<plen1> <plen2> } } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl
<ttl_num> } | { udf { <udf_name> <udf_val> <udf_mask> } + } ] } + } } } [ vlan <vlanid> | ingress_intf
{ <intfid> | <intfname> } | vlan_priority <vlanpriorityid> ] + { [ [ urg | ack | psh | rst | syn | fin | established |
[ log ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } } | { dscp { <dscp_num> | <dscp_str> } } | { http-method { <opt_num> | <opt_str> } } | {
tcp-option-length <tcp_opt_len> } | { tcp-flags-mask <tcp_flags_mask> } | { ttl <ttl_num> } ] } + | [ [ urg |
ack | psh | rst | syn | fin | established | [ log ] [ time-range <time_range_name> ] | packet-length { <plen_op>
<plen0> | <plen_range> <plen1> <plen2> } } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num>
| <prec_str> } } | { ttl <ttl_num> } ] } + } [ { udf { <udf_name> <udf_val> <udf_mask> } + } ] [ capture
session <session-id> ] [ [ <action> <actionid> ] ] + [ log ]
```

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
ethertype	Configure match based on ethertype
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
<i>ethertypeid</i>	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>proto_tcp</i>	Protocol
<i>src_any</i>	Any
<i>src_addr</i>	Source network address
<i>src_wild</i>	Source wildcard bits
<i>src_prefix</i>	Source network prefix
<i>src_key_host</i>	A single source host
<i>src_host</i>	Source address
<i>src_key_addrgrp</i>	Source address group
<i>src_addrgrp_name</i>	Address group name
<i>src_port_op</i>	(Optional) Port operator
<i>src_port_range</i>	(Optional) Port range
<i>src_port0</i>	(Optional) Port number
<i>src_port0_str</i>	(Optional) TCP port
<i>src_port1</i>	(Optional) Port number
<i>src_port1_str</i>	(Optional) TCP port
<i>src_port2</i>	(Optional) Port number
<i>src_port2_str</i>	(Optional) TCP port
<i>src_portgroup</i>	(Optional) src port group
<i>src_port_group</i>	(Optional) Port group name
<i>dst_any</i>	Any
<i>dst_addr</i>	Destination network address
<i>dst_wild</i>	Destination wildcard bits
<i>dst_prefix</i>	Destination network prefix
<i>dst_key_host</i>	A single destination host
<i>dst_host</i>	Destination address
<i>dst_key_addrgrp</i>	Destination address group

<i>dst_addrgrp_name</i>	Address group name
<i>dst_port_op</i>	(Optional) Port operator
<i>dst_port_range</i>	(Optional) Port range
<i>dst_port0</i>	(Optional) Port number
<i>dst_port0_str</i>	(Optional) TCP port
<i>dst_port1</i>	(Optional) Port number
<i>dst_port1_str</i>	(Optional) TCP port
<i>dst_port2</i>	(Optional) Port number
<i>dst_port2_str</i>	(Optional) TCP port
<i>dst_portgroup</i>	(Optional) dst port group
<i>dst_port_group</i>	(Optional) Port group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>tos</i>	(Optional) Match packets with given TOS value
<i>tos_num</i>	(Optional) Type of service value
<i>tos_str</i>	(Optional) Type of service label
<i>precedence</i>	(Optional) Match packets with given precedence value
<i>prec_num</i>	(Optional) Precedence value
<i>prec_str</i>	(Optional) Precedence label
<i>fragments</i>	(Optional) Check non-initial fragments
<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length

<i>plen2</i>	(Optional) Higher packet length
<i>ttl</i>	(Optional) Match Packets with a given TTL value
<i>ttl_num</i>	(Optional)
<i>tcp-option-length</i>	(Optional) Specify TCP Options size
<i>tcp_opt_len</i>	(Optional) TCP option length (multiples of 4 bytes)
<i>tcp-flags-mask</i>	(Optional) Specify TCP Flags
<i>tcp_flags_mask</i>	(Optional) TCP flags mask
<i>http-method</i>	(Optional) Match packets based on http-method
<i>opt_num</i>	(Optional) http_option value
<i>opt_str</i>	(Optional) http_option_param
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
<i>urg</i>	(Optional) Match on the URG bit
<i>ack</i>	(Optional) Match on the ACK bit
<i>psh</i>	(Optional) Match on the PSH bit
<i>rst</i>	(Optional) Match on the RST bit
<i>syn</i>	(Optional) Match on the SYN bit
<i>fin</i>	(Optional) Match on the FIN bit
<i>established</i>	(Optional) Match established connections
<i>udf</i>	(Optional) User defined field match
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF value
<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
<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/configure/ipacl

no

```
{ [ <seqno> ] | no } <permitdeny> { { ethertype <ethertypeid> } | { <proto_udp> { { { <src_any> | {
<src_addr><src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name>
} } [ { { <src_port_op> { <src_port0> | <src_port0_str> } } | { <src_port_range> { <src_port1> |
<src_port1_str> } { <src_port2> | <src_port2_str> } } | src_portgroup <src_port_group> } ] { <dst_any> | {
<dst_addr><dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name>
} } [ { { <dst_port_op> { <dst_port0> | <dst_port0_str> } } | { <dst_port_range> { <dst_port1> |
<dst_port1_str> } { <dst_port2> | <dst_port2_str> } } | dst_portgroup <dst_port_group> } ] { { [ [ log ] [
time-range <time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } |
{ dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> } ] } + | { [ [ log ] [ time-range <time_range_name>
] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> }
} | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> } ] } + | { udf { <udf_name> <udf_val>
<udf_mask> } + } ] [ nve vni <vni-id> ] } | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | {
src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } { <dst_any> | { <dst_addr> <dst_wild>
} | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } { { [ [ fragments
] | [ log ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } | { dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val>
<udf_mask> } + } ] } + | { [ [ fragments ] | [ log ] [ time-range <time_range_name> ] | packet-length {
<plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence {
<prec_num> | <prec_str> } } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val> <udf_mask> } + } ] } + }
} ] [ nve vni <vni-id> ] } } [ vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority
<vlanpriorityid> ] + { { [ [ log ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> |
<plen_range> <plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> } ] } + | { [ [ log
] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2>
} | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> } ] } + }
[ { udf { <udf_name> <udf_val> <udf_mask> } + } ] # 2051 ../feature/acl_mgr/cli/aclmgr.cmd [ capture
session <session-id> ] { [ <action> <actionid> ] } + [ log ]
```

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
ethertype	Configure match based on ethertype
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
<i>ethertypeid</i>	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>proto_udp</i>	Protocol
<i>src_any</i>	Any
<i>src_addr</i>	Source network address
<i>src_wild</i>	Source wildcard bits
<i>src_prefix</i>	Source network prefix
<i>src_key_host</i>	A single source host
<i>src_host</i>	Source address
<i>src_key_addrgrp</i>	Source address group
<i>src_addrgrp_name</i>	Address group name
<i>src_port_op</i>	(Optional) Port operator
<i>src_port_range</i>	(Optional) Port range
<i>src_port0</i>	(Optional) Port number
<i>src_port0_str</i>	(Optional) UDP port
<i>src_port1</i>	(Optional) Port number
<i>src_port1_str</i>	(Optional) UDP port
<i>src_port2</i>	(Optional) Port number
<i>src_port2_str</i>	(Optional) UDP port
<i>src_portgroup</i>	(Optional) src port group
<i>src_port_group</i>	(Optional) Port group name
<i>dst_any</i>	Any
<i>dst_addr</i>	Destination network address
<i>dst_wild</i>	Destination wildcard bits
<i>dst_prefix</i>	Destination network prefix
<i>dst_key_host</i>	A single destination host
<i>dst_host</i>	Destination address
<i>dst_key_addrgrp</i>	Destination address group
<i>dst_addrgrp_name</i>	Address group name
<i>dst_port_op</i>	(Optional) Port operator

<i>dst_port_range</i>	(Optional) Port range
<i>dst_port0</i>	(Optional) Port number
<i>dst_port0_str</i>	(Optional) UDP port
<i>dst_port1</i>	(Optional) Port number
<i>dst_port1_str</i>	(Optional) UDP port
<i>dst_port2</i>	(Optional) Port number
<i>dst_port2_str</i>	(Optional) UDP port
<i>dst_portgroup</i>	(Optional) dst port group
<i>dst_port_group</i>	(Optional) Port group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>tos</i>	(Optional) Match packets with given TOS value
<i>tos_num</i>	(Optional) Type of service value
<i>tos_str</i>	(Optional) Type of service label
<i>precedence</i>	(Optional) Match packets with given precedence value
<i>prec_num</i>	(Optional) Precedence value
<i>prec_str</i>	(Optional) Precedence label
<i>fragments</i>	(Optional) Check non-initial fragments
<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
<i>ttl</i>	(Optional) Match Packets with a given TTL value

<i>ttl_num</i>	(Optional)
<i>nve</i>	(Optional) VNI ID <0-16777215>
<i>vni</i>	(Optional) VNI ID <0-16777215>
<i>vni-id</i>	(Optional) VNI ID <0-16777215>
<i>udf</i>	(Optional) User defined field match
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF value
<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
<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/configure/ipacl

no

```
{ [ <seqno> ] | no } <permitdeny> <proto_igmp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix>
| { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } { <dst_any> | { <dst_addr>
<dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } [
[ log ] [ time-range <time_range_name> ] | <igmp_num> | packet-length { <plen_op> <plen0> | <plen_range>
<plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str> } } ] + [ [ log ] [ time-range <time_range_name> ]
| <igmp_str> | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp { <dscp_num>
| <dscp_str> } } ] + [ [ log ] [ time-range <time_range_name> ] | <igmp_num> | packet-length { <plen_op>
<plen0> | <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num>
| <prec_str> } } ] + [ [ log ] [ time-range <time_range_name> ] | <igmp_str> | packet-length { <plen_op>
<plen0> | <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num>
| <prec_str> } } ] + } } | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host>
} | { src_key_addrgrp <src_addrgrp_name> } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | {
dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } { { [ fragments ] | [ log ] [ time-range
<time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp {
<dscp_num> | <dscp_str> } } | { ttl <ttl_num> } } ] + | { [ [ fragments ] | [ log ] [ time-range
<time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos {
<tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> } } ] + } } [ capture
session <session-id> ] { [ <action> <actionid> ] } + [ log ] }
```

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>proto_igmp</i>	Protocol
<i>src_any</i>	Any
<i>src_addr</i>	Source network address
<i>src_wild</i>	Source wildcard bits
<i>src_prefix</i>	Source network prefix
src_key_host	A single source host
<i>src_host</i>	Source address
src_key_addrgrp	Source address group
<i>src_addrgrp_name</i>	Address group name
<i>dst_any</i>	Any
<i>dst_addr</i>	Destination network address
<i>dst_wild</i>	Destination wildcard bits

<i>dst_prefix</i>	Destination network prefix
<i>dst_key_host</i>	A single destination host
<i>dst_host</i>	Destination address
<i>dst_key_addrgrp</i>	Destination address group
<i>dst_addrgrp_name</i>	Address group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>tos</i>	(Optional) Match packets with given TOS value
<i>tos_num</i>	(Optional) Type of service value
<i>tos_str</i>	(Optional) Type of service label
<i>precedence</i>	(Optional) Match packets with given precedence value
<i>prec_num</i>	(Optional) Precedence value
<i>prec_str</i>	(Optional) Precedence label
<i>fragments</i>	(Optional) Check non-initial fragments
<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
<i>ttl</i>	(Optional) Match Packets with a given TTL value
<i>ttl_num</i>	(Optional)
<i>igmp_num</i>	(Optional) IGMP message type
<i>igmp_str</i>	(Optional) IGMP type
<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
<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/configure/ipacl

no

```
{ [ <seqno> ] no } <permitdeny> { { { ethertype <ethertypeid> } | { <proto_icmp> { { { <src_any> | {
<src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name>
} } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp
<dst_addrgrp_name> } } } { [ [ log ] [ time-range <time_range_name> ] | { <icmp_type> [ <icmp_code> ] |
packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str>
} } ] + [ [ log ] [ time-range <time_range_name> ] | <icmp_str> | packet-length { <plen_op> <plen0> |
<plen_range> <plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str> } } ] + [ [ log ] [ time-range
<time_range_name> ] | { <icmp_type> [ <icmp_code> ] | packet-length { <plen_op> <plen0> | <plen_range>
<plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } ] + [ [
log ] [ time-range <time_range_name> ] | <icmp_str> | packet-length { <plen_op> <plen0> | <plen_range>
<plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } ] + }
| { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp
<src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host>
} | { dst_key_addrgrp <dst_addrgrp_name> } } } { [ [ fragments ] [ log ] [ time-range <time_range_name>
] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str>
} } ] | { ttl <ttl_num> } } ] + [ [ fragments ] [ log ] [ time-range <time_range_name> ] | packet-length {
<plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence {
<prec_num> | <prec_str> } } | { ttl <ttl_num> } } ] + } } } [ vlan <vlanid> | ingress_intf { <intfid> |
<intfname> } | vlan_priority <vlanpriorityid> ] + [ capture session <session-id> ] { [ <action> <actionid> ]
} + [ log ] }
```

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
ethertype	Configure match based on ethertype
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
<i>ethertypeid</i>	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>proto_icmp</i>	Protocol
<i>src_any</i>	Any

<i>src_addr</i>	Source network address
<i>src_wild</i>	Source wildcard bits
<i>src_prefix</i>	Source network prefix
<i>src_key_host</i>	A single source host
<i>src_host</i>	Source address
<i>src_key_addrgrp</i>	Source address group
<i>src_addrgrp_name</i>	Address group name
<i>dst_any</i>	Any
<i>dst_addr</i>	Destination network address
<i>dst_wild</i>	Destination wildcard bits
<i>dst_prefix</i>	Destination network prefix
<i>dst_key_host</i>	A single destination host
<i>dst_host</i>	Destination address
<i>dst_key_addrgrp</i>	Destination address group
<i>dst_addrgrp_name</i>	Address group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>tos</i>	(Optional) Match packets with given TOS value
<i>tos_num</i>	(Optional) Type of service value
<i>tos_str</i>	(Optional) Type of service label
<i>precedence</i>	(Optional) Match packets with given precedence value
<i>prec_num</i>	(Optional) Precedence value
<i>prec_str</i>	(Optional) Precedence label
<i>fragments</i>	(Optional) Check non-initial fragments
<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length

<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
<i>ttl</i>	(Optional) Match Packets with a given TTL value
<i>ttl_num</i>	(Optional)
<i>icmp_type</i>	(Optional) ICMP message type
<i>icmp_code</i>	(Optional) ICMP message code
<i>icmp_str</i>	(Optional) ICMP label
<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
<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/configure/ipacl

no

```
{ [ <seqno> ] | no } <permitdeny> <proto_tcp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix>
| { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } [ { { <src_port_op> { <src_port0>
| <src_port0_str> } } | { <src_port_range> { <src_port1> | <src_port1_str> } { <src_port2> | <src_port2_str>
} } | src_portgroup <src_port_group> } ] { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | {
dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } [ { { <dst_port_op> { <dst_port0>
| <dst_port0_str> } } | { <dst_port_range> { <dst_port1> | <dst_port1_str> } { <dst_port2> | <dst_port2_str>
} } | dst_portgroup <dst_port_group> } ] [ { { dscp { <dscp_num> | <dscp_str> } } ] [ { flow-label
<flow_num> } ] [ log ] [ time-range <time_range_name> ] [ urg | ack | psh | rst | syn | fin | established ] | {
tcp-flags-mask <tcp_flags_mask> } | [ packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2>
} ] ] + } | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | {
src_key_addrgrp <src_addrgrp_name> } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | {
dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } { [ { dscp { <dscp_num> | <dscp_str>
} } ] [ { flow-label <flow_num> } ] [ fragments ] [ log ] [ time-range <time_range_name> ] [ packet-length
{ <plen_op> <plen0> | <plen_range> <plen1> <plen2> } ] [ { udf { <udf_name> <udf_val> <udf_mask> }
+ } ] ] + } } [ vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid> ] + [
capture session <session-id> ] [ { <actionv6> <actionidv6> } ] }
```

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>proto_tcp</i>	Protocol
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
udf	(Optional) User defined field match
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF 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>src_any</i>	Any
src_key_host	A single source host

<code>src_key_addrgrp</code>	Source address group
<code>src_addrgrp_name</code>	Address group name
<code>src_port_op</code>	(Optional) Port operator
<code>src_port_range</code>	(Optional) Port range
<code>src_port0</code>	(Optional) Port number
<code>src_port0_str</code>	(Optional) TCP port
<code>src_port1</code>	(Optional) Port number
<code>src_port1_str</code>	(Optional) TCP port
<code>src_port2</code>	(Optional) Port number
<code>src_port2_str</code>	(Optional) TCP port
<code>src_portgroup</code>	(Optional) src port group
<code>src_port_group</code>	(Optional) Port group name
<code>dst_any</code>	Any
<code>dst_key_host</code>	A single destination host
<code>dst_key_addrgrp</code>	Destination address group
<code>dst_addrgrp_name</code>	Address group name
<code>dst_port_op</code>	(Optional) Port operator
<code>dst_port_range</code>	(Optional) Port range
<code>dst_port0</code>	(Optional) Port number
<code>dst_port0_str</code>	(Optional) TCP port
<code>dst_port1</code>	(Optional) Port number
<code>dst_port1_str</code>	(Optional) TCP port
<code>dst_port2</code>	(Optional) Port number
<code>dst_port2_str</code>	(Optional) TCP port
<code>dst_portgroup</code>	(Optional) dst port group
<code>dst_port_group</code>	(Optional) Port group name
<code>dscp</code>	(Optional) Match packets with given dscp value
<code>dscp_num</code>	(Optional) Differentiated services codepoint value
<code>dscp_str</code>	(Optional) Differentiated services codepoint label

flow-label	(Optional) Flow label
<i>flow_num</i>	(Optional) Flow label value
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
time-range	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
tcp-flags-mask	Specify TCP Flags
<i>tcp_flags_mask</i>	TCP flags mask
urg	(Optional) Match on the URG bit
ack	(Optional) Match on the ACK bit
psh	(Optional) Match on the PSH bit
rst	(Optional) Match on the RST bit
syn	(Optional) Match on the SYN bit
fin	(Optional) Match on the FIN bit
established	(Optional) Match established connections
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session
<i>actionv6</i>	(Optional) ActionV6
<i>actionidv6</i>	(Optional) redirect: Ethernet1/1,port-channell set-erspan-dscp: <1-63> set-erspan-gre-PROTO: <1-65535>

Command Mode

- /exec/configure/ipv6acl

no

```
{ [ <seqno> ] no } <permitdeny> <proto_udp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix>
| { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } [ { { <src_port_op> { <src_port0>
| <src_port0_str> } } | { <src_port_range> { <src_port1> | <src_port1_str> } { <src_port2> | <src_port2_str>
} } | src_portgroup <src_port_group> } ] { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | {
dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } [ { { <dst_port_op> { <dst_port0>
| <dst_port0_str> } } | { <dst_port_range> { <dst_port1> | <dst_port1_str> } { <dst_port2> | <dst_port2_str>
} } | dst_portgroup <dst_port_group> } ] [ { { dscp { <dscp_num> | <dscp_str> } } ] [ { flow-label <flow_num>
} ] [ log ] [ time-range <time_range_name> ] [ packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } ] + } [ nve vni <vni-id> ] | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | {
src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } { <dst_any> | { <dst_addr> <dst_wild>
} | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } { { dscp {
<dscp_num> | <dscp_str> } } ] [ { flow-label <flow_num> } ] [ fragments ] [ log ] [ time-range
<time_range_name> ] [ packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } ] [ { udf {
<udf_name> <udf_val> <udf_mask> } + } ] + } ] [ nve vni <vni-id> ] [ vlan <vlanid> | ingress_intf {
<intfid> | <intfname> } | vlan_priority <vlanpriorityid> ] + [ capture session <session-id> ] { [ <actionv6>
<actionidv6> ] }
```

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>proto_udp</i>	Protocol
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
udf	(Optional) User defined field match
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF 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>src_any</i>	Any
src_key_host	A single source host

<i>src_key_addrgrp</i>	Source address group
<i>src_addrgrp_name</i>	Address group name
<i>src_port_op</i>	(Optional) Port operator
<i>src_port_range</i>	(Optional) Port range
<i>src_port0</i>	(Optional) Port number
<i>src_port0_str</i>	(Optional) UDP port
<i>src_port1</i>	(Optional) Port number
<i>src_port1_str</i>	(Optional) UDP port
<i>src_port2</i>	(Optional) Port number
<i>src_port2_str</i>	(Optional) UDP port
<i>src_portgroup</i>	(Optional) src port group
<i>src_port_group</i>	(Optional) Port group name
<i>dst_any</i>	Any
<i>dst_key_host</i>	A single destination host
<i>dst_key_addrgrp</i>	Destination address group
<i>dst_addrgrp_name</i>	Address group name
<i>dst_port_op</i>	(Optional) Port operator
<i>dst_port_range</i>	(Optional) Port range
<i>dst_port0</i>	(Optional) Port number
<i>dst_port0_str</i>	(Optional) UDP port
<i>dst_port1</i>	(Optional) Port number
<i>dst_port1_str</i>	(Optional) UDP port
<i>dst_port2</i>	(Optional) Port number
<i>dst_port2_str</i>	(Optional) UDP port
<i>dst_portgroup</i>	(Optional) dst port group
<i>dst_port_group</i>	(Optional) Port group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label

flow-label	(Optional) Flow label
<i>flow_num</i>	(Optional) Flow label value
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
time-range	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session
nve	(Optional) VNI ID <0-16777215>
vni	(Optional) VNI ID <0-16777215>
<i>vni-id</i>	(Optional) VNI ID <0-16777215>
<i>actionv6</i>	(Optional) ActionV6
<i>actionidv6</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

Command Mode

- /exec/configure/ipv6acl

no

```
{ [ <seqno> ] | no } <permitdeny> <proto_sctp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix>
| { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } [ { { <src_port_op> { <src_port0>
| <src_port0_str> } } | { <src_port_range> { <src_port1> | <src_port1_str> } { <src_port2> | <src_port2_str>
} } | src_portgroup <src_port_group> } ] { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | {
dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } [ { { <dst_port_op> { <dst_port0>
| <dst_port0_str> } } | { <dst_port_range> { <dst_port1> | <dst_port1_str> } { <dst_port2> | <dst_port2_str>
} } | dst_portgroup <dst_port_group> } ] [ { dscp { <dscp_num> | <dscp_str> } } ] [ { flow-label <flow_num>
} ] [ log ] [ time-range <time_range_name> ] [ packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } ] ] + } | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> }
| { src_key_addrgrp <src_addrgrp_name> } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | {
dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } [ { dscp { <dscp_num> | <dscp_str>
} } ] [ { flow-label <flow_num> } ] [ fragments ] [ log ] [ time-range <time_range_name> ] [ packet-length
{ <plen_op> <plen0> | <plen_range> <plen1> <plen2> } ] [ { udf { <udf_name> <udf_val> <udf_mask> }
+ } ] ] + [ vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid> ] + [ capture
session <session-id> ] }
```

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>proto_sctp</i>	Protocol
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
udf	(Optional) User defined field match
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF 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>src_any</i>	Any
src_key_host	A single source host

<code>src_key_addrgrp</code>	Source address group
<code>src_addrgrp_name</code>	Address group name
<code>src_port_op</code>	(Optional) Port operator
<code>src_port_range</code>	(Optional) Port range
<code>src_port0</code>	(Optional) Port number
<code>src_port0_str</code>	(Optional) SCTP port
<code>src_port1</code>	(Optional) Port number
<code>src_port1_str</code>	(Optional) SCTP port
<code>src_port2</code>	(Optional) Port number
<code>src_port2_str</code>	(Optional) SCTP port
<code>src_portgroup</code>	(Optional) src port group
<code>src_port_group</code>	(Optional) Port group name
<code>dst_any</code>	Any
<code>dst_key_host</code>	A single destination host
<code>dst_key_addrgrp</code>	Destination address group
<code>dst_addrgrp_name</code>	Address group name
<code>dst_port_op</code>	(Optional) Port operator
<code>dst_port_range</code>	(Optional) Port range
<code>dst_port0</code>	(Optional) Port number
<code>dst_port0_str</code>	(Optional) SCTP port
<code>dst_port1</code>	(Optional) Port number
<code>dst_port1_str</code>	(Optional) SCTP port
<code>dst_port2</code>	(Optional) Port number
<code>dst_port2_str</code>	(Optional) SCTP port
<code>dst_portgroup</code>	(Optional) dst port group
<code>dst_port_group</code>	(Optional) Port group name
<code>dscp</code>	(Optional) Match packets with given dscp value
<code>dscp_num</code>	(Optional) Differentiated services codepoint value
<code>dscp_str</code>	(Optional) Differentiated services codepoint label

flow-label	(Optional) Flow label
<i>flow_num</i>	(Optional) Flow label value
fragments	(Optional) Check non-initial fragments
log	(Optional) Log matches against this entry
time-range	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
packet-length	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session

Command Mode

- /exec/configure/ipv6acl

no

```
{ [ <seqno> ] no } <permitdeny> <proto_icmpv6> { { { { <src_any> | { <src_addr> <src_wild> } |
<src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } { <dst_any> | {
<dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name>
} } } { { <icmpv6_type> [ <icmpv6_code> ] } | { dscp { <dscp_num> | <dscp_str> } } | { flow-label
<flow_num> } | [ log ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range>
<plen1> <plen2> } } ] + [ <icmpv6_str> | { dscp { <dscp_num> | <dscp_str> } } | { flow-label <flow_num>
} | [ log ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } } ] + } | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> }
| { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | {
dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } { [ { dscp { <dscp_num> | <dscp_str>
} } ] [ { flow-label <flow_num> } ] [ fragments ] [ log ] [ time-range <time_range_name> ] [ packet-length
{ <plen_op> <plen0> | <plen_range> <plen1> <plen2> } ] [ { udf { <udf_name> <udf_val> <udf_mask>
+ } } ] + } } [ vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid> ] + [
capture session <session-id> ] { [ <actionv6> <actionidv6> ] } }
```

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>proto_icmpv6</i>	Protocol
vlan	(Optional) Configure match based on vlan
ingress_intf	(Optional) Configure match based on ingress interface
vlan_priority	(Optional) Configure match based on priority
udf	(Optional) User defined field match
<i>udf_name</i>	(Optional) UDF name
<i>udf_val</i>	(Optional) UDF value to match
<i>udf_mask</i>	(Optional) Mask to apply to UDF 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>src_any</i>	Any
src_key_host	A single source host
src_key_addrgrp	Source address group

<i>src_addrgrp_name</i>	Address group name
<i>dst_any</i>	Any
<i>dst_key_host</i>	A single destination host
<i>dst_key_addrgrp</i>	Destination address group
<i>dst_addrgrp_name</i>	Address group name
<i>dscp</i>	(Optional) Match packets with given dscp value
<i>dscp_num</i>	(Optional) Differentiated services codepoint value
<i>dscp_str</i>	(Optional) Differentiated services codepoint label
<i>flow-label</i>	(Optional) Flow label
<i>flow_num</i>	(Optional) Flow label value
<i>fragments</i>	(Optional) Check non-initial fragments
<i>log</i>	(Optional) Log matches against this entry
<i>time-range</i>	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
<i>packet-length</i>	(Optional) Match packets based on layer 3 packet length
<i>plen_op</i>	(Optional) Packet-length operator
<i>plen_range</i>	(Optional) Packet-length range
<i>plen0</i>	(Optional) Packet length
<i>plen1</i>	(Optional) Lower packet length
<i>plen2</i>	(Optional) Higher packet length
<i>icmpv6_type</i>	(Optional) ICMPv6 message type
<i>icmpv6_code</i>	(Optional) ICMPv6 message code
<i>icmpv6_str</i>	(Optional) ICMPv6 label
<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
<i>actionv6</i>	(Optional) ActionV6
<i>actionidv6</i>	(Optional) redirect: Ethernet1/1,port-channel1 set-erspan-dscp: <1-63> set-erspan-gre-proto: <1-65535>

Command Mode

- /exec/configure/ipv6acl

no

```
{ { [ <seqno> ] | no } <permitdeny> { { [ <arp_request> ] req_ip { <sender1_ip_any> | { { <sender1_host>
<sender1_ip> | { <sender1_net_ip> <sender1_ip_mask> } } } } mac { <sender1_mac_any> | { {
<sender1_mac_host> <sender1_mac> | { <sender1_net_mac> <sender1_mac_mask> } } } } | {
<arp_response> resp_ip { <sender2_ip_any> | { { <sender2_host> <sender2_ip> | { <sender2_net_ip>
<sender2_ip_mask> } } } } { <target_ip_any> | { { <target_host> <target_ip> | { <target_net_ip>
<target_ip_mask> } } } } mac { <sender2_mac_any> | { { <sender2_mac_host> <sender2_mac> | {
<sender2_net_mac> <sender2_mac_mask> } } } } [ { <target_mac_any> | { { <target_mac_host> <target_mac>
| { <target_net_mac> <target_mac_mask> } } } } ] } [ <arp_log> ] [ capture session <session-id> ] }
```

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
req_ip	Any IP protocol
resp_ip	Any IP protocol
<i>arp_request</i>	(Optional) ARP_Request
<i>arp_response</i>	ARP_Response
<i>sender1_ip_any</i>	Any
<i>sender1_host</i>	Host
<i>sender1_ip</i>	IP address <a.b.c.d>
<i>sender1_net_ip</i>	IP address <a.b.c.d>
<i>sender1_ip_mask</i>	IP mask <a.b.c.d>
<i>sender2_ip_any</i>	Any
<i>sender2_host</i>	Host
<i>sender2_ip</i>	IP address <a.b.c.d>
<i>sender2_net_ip</i>	IP address <a.b.c.d>
<i>sender2_ip_mask</i>	IP mask <a.b.c.d>
<i>target_ip_any</i>	Any
<i>target_host</i>	Host
<i>target_ip</i>	IP address <a.b.c.d>
<i>target_net_ip</i>	IP address <a.b.c.d>

<i>target_ip_mask</i>	IP mask <a.b.c.d>
<i>mac</i>	MAC configuration commands
<i>sender1_mac_any</i>	Any
<i>sender1_mac_host</i>	Host
<i>sender1_mac</i>	MAC address EEEE.EEEE.EEEE
<i>sender1_net_mac</i>	MAC address EEEE.EEEE.EEEE
<i>sender1_mac_mask</i>	MAC mask EEEE.EEEE.EEEE
<i>sender2_mac_any</i>	Any
<i>sender2_mac_host</i>	Host
<i>sender2_mac</i>	MAC address EEEE.EEEE.EEEE
<i>sender2_net_mac</i>	MAC address EEEE.EEEE.EEEE
<i>sender2_mac_mask</i>	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>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/configure/arpacl

no

{ [<seqno>] | no } { <addr> <wild> | <prefix> | host <hostaddr> }

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>addr</i>	A.B.C.D Network address of object-group member
<i>wild</i>	A.B.C.D wildcard
<i>prefix</i>	A.B.C.D/nn Network prefix of the object-group member
host	Host address of the object-group member
<i>hostaddr</i>	A.B.C.D Host address

Command Mode

- /exec/configure/ipgroup

no

{ [<seqno>] | no } { <addr> <wild> | <prefix> | host <hostaddr> }

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
host	Host address of the object-group member

Command Mode

- /exec/configure/ipv6group

no

```
{ [ <seqno> ] | no } { <_port_op> <port0_num> | <_port_range> <port1_num> <port2_num> }
```

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>_port_op</i>	Port operator
<i>_port_range</i>	Port range
<i>port0_num</i>	Port number
<i>port1_num</i>	Port number
<i>port2_num</i>	Port number

Command Mode

- /exec/configure/portgroup

no

```
{ [ <seqno> ] | no } <permitdeny> { <src_any> | { <src_addr> <src_wild> } } { <dst_any> | { <dst_addr>
<dst_wild> } } [ <mac_proto> | <mac_proto_str> ] [ vlan <vlan> | cos <cos> ] + [ time-range
<time_range_name> ] [ capture session <session-id> ] { [ <macaction> <macactionid> ] } +
```

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
<i>permitdeny</i>	Permit/deny
<i>src_any</i>	Any
<i>src_addr</i>	Source MAC address
<i>src_wild</i>	Source wildcard bits
<i>dst_any</i>	Any
<i>dst_addr</i>	Destination MAC address
<i>dst_wild</i>	Destination wildcard bits
<i>mac_proto</i>	(Optional) MAC protocol number
<i>mac_proto_str</i>	(Optional) MAC protocol name
vlan	(Optional) VLAN number
cos	(Optional) CoS value
<i>vlan</i>	(Optional) VLAN number
<i>cos</i>	(Optional) CoS value
time-range	(Optional) Specify a time range
<i>time_range_name</i>	(Optional) Time range name
capture	(Optional) Enable packet capture on this filter for session
session	(Optional) Session ID <1-48> for this session
<i>session-id</i>	(Optional) Session ID <1-48> for this session
<i>macaction</i>	(Optional) MAC ACL Action
<i>macactionid</i>	(Optional) redirect: Ethernet1/1,port-channel1

Command Mode

- /exec/configure/macacl

node

[no] node [ip <ip-addr> | IPv6 <ip-addrv6>]

Syntax Description

no	(Optional) Negate a command or set its defaults
node	Catena device-group node
ip	(Optional) Catena device-group node IPv4 address
<i>ip-addr</i>	(Optional) Catena device-group node IP4 prefix in format i.i.i.i
IPv6	(Optional) Catena device-group node IPv6 address

Command Mode

- /exec/configure/catena-device-grp

node

[no] node [ip <ip-addr> | IPv6 <ip-addrv6>]

Syntax Description

no	(Optional) Negate a command or set its defaults
node	ITD node
ip	(Optional) ITD node IPv4 address
<i>ip-addr</i>	(Optional) ITD node IP4 prefix in format i.i.i.i
IPv6	(Optional) ITD node IPv6 address

Command Mode

- /exec/configure/itd-session-device-group

node

[no] node [ip <ip-addr> | IPv6 <ip-addrv6>]

Syntax Description

no	(Optional) Negate a command or set its defaults
node	ITD node
ip	(Optional) ITD node IPv4 address
<i>ip-addr</i>	(Optional) ITD node IP4 prefix in format i.i.i.i
IPv6	(Optional) ITD node IPv6 address

Command Mode

- /exec/configure/itd-device-group

node ip

[no] node { ip <ip-addr> | IPv6 <ip-addrv6> }

Syntax Description

no	(Optional) Negate a command or set its defaults
node	Configure nodes for PLB device group
ip	node IPv4 address
<i>ip-addr</i>	IP4 prefix in format i.i.i.i
IPv6	node IPv6 address

Command Mode

- /exec/configure/plb-session-device-group

node ip

[no] node { ip <ip-addr> | IPv6 <ip-addrv6> }

Syntax Description

no	(Optional) Negate a command or set its defaults
node	Configure nodes for PLB device group
ip	node IPv4 address
<i>ip-addr</i>	IP4 prefix in format i.i.i.i
IPv6	node IPv6 address

Command Mode

- /exec/configure/plb-device-group

nsf await-redist-proto-convergence

{ [no] nsf await-redist-proto-convergence }

Syntax Description

no	(Optional) Negate a command or set its defaults
nsf	Non-stop forwarding
await-redist-proto-convergence	Specify whether EIGRP should wait for other protocols to converge before advertising routes

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

ntp access-group

[no] ntp access-group { peer | serve-only | serve | query-only } <acl-name>

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
access-group	NTP access-group
peer	access-group peer
serve	access-group serve
serve-only	access-group serve-only
query-only	access-group query-only
<i>acl-name</i>	Name of access list

Command Mode

- /exec/configure

ntp access-group match-all

[no] ntp access-group match-all

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
access-group	NTP access-group
match-all	Scan ACLs present in all ntp access groups

Command Mode

- /exec/configure

ntp allow private

```
[no] ntp allow { private | control [ rate-limit <delay> ] }
```

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
allow	Enable/Disable the packets
private	Enable/Disable Private mode packets
control	Enable/Disable Control mode packets
rate-limit	(Optional) Rate-limit the control packets
<i>delay</i>	(Optional) Rate-limit delay (Default 3)

Command Mode

- /exec/configure

ntp authenticate

[no] ntp authenticate

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
authenticate	Enable/Disable authentication

Command Mode

- /exec/configure

ntp authentication-key md5

[no] ntp authentication-key <number> md5 <md5> [0 | 7]

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
authentication-key	NTP authentication key
<i>number</i>	authentication key number (range 1-65535)
md5	use md5 authentication scheme
<i>md5</i>	MD5 string
0	(Optional) clear text
7	(Optional) encrypted

Command Mode

- /exec/configure

ntp clear internal buffer

ntp clear internal buffer

Syntax Description

ntp	NTP configuration
clear	clear
internal	internal
buffer	debug message buffer

Command Mode

- /exec

ntp drop-aged-packet

[no] ntp drop-aged-packet

Syntax Description

no	(Optional) Negate a command or set its defaults
ntp	NTP Configuration
drop-aged-packet	Enable or disable Riviera Timestamp Check.

Command Mode

- /exec/configure

ntp enable ntpd-logfile debug-level

[no] ntp enable ntpd-logfile debug-level <level>

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
enable	Enable logging
ntpd-logfile	NTP daemon logs
debug-level	debug level of logs
<i>level</i>	debug level of logs

Command Mode

- /exec/configure

ntp logging

[no] ntp logging

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
logging	Enable/Disable logging of NTPD Events

Command Mode

- /exec/configure

ntp master

[no] ntp master [<stratum-no>]

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
master	Act as NTP master clock
<i>stratum-no</i>	(Optional) Stratum number

Command Mode

- /exec/configure

ntp passive

[no] ntp passive

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
passive	NTP passive command

Command Mode

- /exec/configure

ntp peer

[no] ntp peer <host0> [prefer | key <keyid> | use-vrf { <vrf-name> | <vrf-known-name> } | minpoll <minpoll> | maxpoll <maxpoll>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
ntp	NTP Configuration
peer	NTP Peer address
<i>host0</i>	Hostname/IP address of the NTP Peer
prefer	(Optional) Preferred Server
key	(Optional) Keyid to be used while communicating to this server
<i>keyid</i>	(Optional) Value of keyid 1-65535
use-vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
minpoll	(Optional) Minimum interval to poll a peer
<i>minpoll</i>	(Optional) Poll interval in secs to a power of 2 [default 4]
maxpoll	(Optional) Maximum interval to poll a peer
<i>maxpoll</i>	(Optional) Poll interval in secs to a power of 2 [default 6]

Command Mode

- /exec/configure

ntp rts-update

[no] ntp rts-update

Syntax Description

no	(Optional) Negate a command or set its defaults
ntp	NTP Configuration
rts-update	Enable or disable RTS update to linecards.

Command Mode

- /exec/configure

ntp server

[no] ntp server <host0> [prefer | key <keyid> | use-vrf { <vrf-name> | <vrf-known-name> } | minpoll <minpoll> | maxpoll <maxpoll>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
ntp	NTP Configuration
server	NTP server address
<i>host0</i>	Hostname/IP address of the NTP Server
prefer	(Optional) Preferred Server
key	(Optional) Keyid to be used while communicating to this server
<i>keyid</i>	(Optional) Value of keyid 1-65535
use-vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
minpoll	(Optional) Minimum interval to poll a server
<i>minpoll</i>	(Optional) Poll interval in secs to a power of 2 [default 4]
maxpoll	(Optional) Maximum interval to poll a server
<i>maxpoll</i>	(Optional) Poll interval in secs to a power of 2 [default 6]

Command Mode

- /exec/configure

ntp source-interface

[no] ntp source-interface <interface>

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
source-interface	Source interface sending NTP packets
<i>interface</i>	Source interface

Command Mode

- /exec/configure

ntp source

[no] ntp source <ip-addr>

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP Configuration
source	Source of NTP packets
<i>ip-addr</i>	IPv4/IPv6 address

Command Mode

- /exec/configure

ntp sync-retry

ntp sync-retry

Syntax Description

ntp	NTP configuration
sync-retry	Retry synchronization with configured servers

Command Mode

- /exec

ntp trusted-key

[no] ntp trusted-key <number>

Syntax Description

no	(Optional) Negate a command or set its default
ntp	NTP configuration
trusted-key	NTP trusted-key
<i>number</i>	trusted-key number

Command Mode

- /exec/configure

nv overlay evpn

[no] nv overlay evpn

Syntax Description

no	(Optional) Negate a command or set its defaults
nv	Command to enable/disable features
overlay	Command to enable/disable features
evpn	Enable/Disable Ethernet VPN (EVPN)

Command Mode

- /exec/configure

nve enable history

[no] nve enable history { all | vni | peer | port }

Syntax Description

no	(Optional) Negate a command or set its defaults
nve	Display NVE information
enable	enable knob for all, vni, port and peer history
history	history for vni port peer
all	
vni	
peer	
port	

Command Mode

- /exec/configure

nve event-history size

nve event-history { <buffer-name> } size { <size_in_text> | <size_in_bytes> }

Syntax Description

nve	Display NVE information
event-history	Configure the event-history buffers
<i>buffer-name</i>	Event history buffer whose size is to be configured
size	Configure the buffer sizes
<i>size_in_text</i>	Size of event history buffer
<i>size_in_bytes</i>	Size in bytes in the range 1-5000000

Command Mode

- /exec/configure

nve interface remap-replication-servers

nve interface <nve-if> remap-replication-servers

Syntax Description

nve	Configure NVE information
interface	Interface
<i>nve-if</i>	NVE interface
remap-replication-servers	Remap Replication servers to VNIs

Command Mode

- /exec

nve interface replication-server up

nve interface <nve-if> replication-server <rep-addr> { up | down }

Syntax Description

nve	Configure NVE information
interface	Interface
<i>nve-if</i>	NVE interface
replication-server	Configure a replication server
<i>rep-addr</i>	Replication Server IP Address
up	mark replication-server up
down	mark replication-server down

Command Mode

- /exec

nve oam mode draft-pang

[no] nve oam mode draft-pang

Syntax Description

no	(Optional) Negate a command or set its defaults
nve	VxLAN functionality
oam	VxLAN OAM functionality
mode	Choose operation mode for OAM
draft-pang	OAM implementation as per Draft Pang

Command Mode

- /exec/configure

nxapi certificate

```
{ nxapi certificate { { httpskey { keyfile <uri0> | <line> } } | { httpsCRT { certfile <uri1> | <line1> } } | { enable } } }
```

Syntax Description

nxapi	Configure nxapi
certificate	Https certificate configuration
httpskey	Https private key
httpsCRT	Https certificate
keyfile	Https key file
certfile	Https certificate file
enable	Enable the current certificate
<i>uri0</i>	File containing https private key for the user
<i>line</i>	nxapi https private key
<i>uri1</i>	File containing https certificate
<i>line1</i>	nxapi https certificate

Command Mode

- /exec/configure

nxapi flow

{ [no] nxapi flow }

Syntax Description

no	(Optional) Negate a command or set its defaults
nxapi	Configure nxapi
flow	allow frontend to access /sys/flow/

Command Mode

- /exec/configure

nxapi http port

{ nxapi { http | https } port <s0> } | { no nxapi { http | https } } | { no nxapi { http | https } port <s0> }

Syntax Description

no	Negate a command or set its defaults
nxapi	Configure nxapi
s0	Port number. Please do not use well-known protocol ports
http	Http configuration
https	Https configuration
port	Port number

Command Mode

- /exec/configure

nxapi use-vrf management default

```
{ nxapi use-vrf { management | default | <vrf_name> } } | { no nxapi use-vrf { management | default | <vrf_name> } }
```

Syntax Description

no	Negate a command or set its defaults
nxapi	Configure nxapi
use-vrf	vrf to be used for nxapi communication
management	management vrf
default	default vrf
<i>vrf_name</i>	name of the vrf

Command Mode

- /exec/configure

nxsdk enable app

[no] nxsdk enable app <app-index>

Syntax Description

no	(Optional) Negate a command or set its defaults
nxsdk	NXOS SDK
enable	Command to enable/disable nxsdk application
app	Enable/disable application
<i>app-index</i>	Application index

Command Mode

- /exec

nxsdk service-name

```
{ [ no ] nxsdk service-name <service-name> }
```

Syntax Description

nxsdk	NXOS SDK
service-name	Complete path and name of file to execute
<i>service-name</i>	Service name

Command Mode

- /exec/configure



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oam-channel

{ oam-channel <val> } | { no oam-channel }

Syntax Description

oam-channel	oam-channel used
<i>val</i>	2 - nvo3 tissa

Command Mode

- /exec/configure/configngoamprofile

obfl logging uuid msg

obfl logging uuid <uuid> <log-file> msg <log_str>

Syntax Description

obfl	Perform the OBFL operation
logging	Perform the logging
uuid	UUID of the process
<i>uuid</i>	UUID of the process
<i>log-file</i>	Log File of your process
msg	Message to be Logged in the file
<i>log_str</i>	Type the message to be logged

Command Mode

- /exec

object-group ip address

[no] object-group ip address <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
object-group	Configure ACL object groups
ip	IP Object groups
address	Address object group
<i>name</i>	object-group name

Command Mode

- /exec/configure

object-group ip port

[no] object-group ip port <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
object-group	Configure ACL object groups
ip	IP Object groups
port	IP port object group (can be used in IPv4 and IPv6 access-lists)
<i>name</i>	object-group name

Command Mode

- /exec/configure

object-group ipv6 address

[no] object-group ipv6 address <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
object-group	Configure ACL object groups
ipv6	IPv6 Object groups
address	Address object group
<i>name</i>	object-group name

Command Mode

- /exec/configure

object-group udp relay ip address

object-group udp relay ip address <obj-grp-name>

Syntax Description

object-group	Configure object groups
udp	Configure UDP
relay	Configure UDP Relay
ip	IP Object groups
address	Address object group
<i>obj-grp-name</i>	object-group name

Command Mode

- /exec/configure

object-group udp relay ip address

[no] object-group udp relay ip address <obj-grp-name>

Syntax Description

no	Negate a command or set its defaults
object-group	Configure object groups
udp	Configure UDP
relay	Configure UDP Relay
ip	IP Object groups
address	Address object group
<i>obj-grp-name</i>	object-group name

Command Mode

- /exec/configure

of-port interface

[no] of-port interface <ifname>

Syntax Description

no	(Optional) Negate a command or set its defaults
of-port	Add interfaces to openflow switch
interface	Interface
<i>ifname</i>	interface name

Command Mode

- /exec/configure/openflow/switch

offset-list route in

[no] offset-list { { route-map <map> } | { prefix-list <list> } } { in | out } <offset> <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
offset-list	Add or subtract offset from EIGRP metrics
route-map	Use a route-map for offset-list selection
<i>map</i>	Route-map name
prefix-list	Use a prefix-list for offset-list selection
<i>list</i>	Reference to prefix-list name
in	Perform offset on incoming updates
out	Perform offset on outgoing updates
<i>offset</i>	Offset
<i>interface</i>	Interface name

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

onep

[no] onep

Syntax Description

no	(Optional) Negate a command or set its defaults
onep	Enable/Disable One Platform

Command Mode

- /exec/configure

onep applications

[no] onep applications <config-domain>

Syntax Description

no	(Optional) Negate a command or set its defaults
onep	One Platform
applications	One platform applications
<i>config-domain</i>	Virtual service name or tag used by remote onep applications to retrieve its configuration

Command Mode

- /exec/configure

onep install

onep install <xsd-location> <config-domain>

Syntax Description

onep	One Platform
install	install a CLI definition
<i>xsd-location</i>	the xsd file containing the onep application CLI definition
<i>config-domain</i>	virtual service name or tag used by remote onep applications to retrieve its configuration

Command Mode

- /exec

onep stop

```
onep stop { session { all | <onep-session-id> } }
```

Syntax Description

onep	One Platform
stop	Stop specific activity
session	One Platform session
all	All sessions
<i>onep-session-id</i>	Specific session name

Command Mode

- /exec

onep uninstall

onep uninstall <app-name> <app-version> <config-domain> [force]

Syntax Description

onep	One Platform
uninstall	uninstall a CLI definition
<i>app-name</i>	application name
<i>app-version</i>	application version
<i>config-domain</i>	virtual service name or tag used by remote onep applications to retrieve its configuration
force	(Optional) force uninstallation

Command Mode

- /exec

open-fsm

[no] open-fsm

Syntax Description

no	(Optional) Negate a command or set its defaults
open-fsm	Enable session open FSM for establishing BGP sessions

Command Mode

- /exec/configure/router-bgp

openflow

[no] openflow

Syntax Description

no	(Optional) Negate a command or set its defaults
openflow	OpenFlow configuration

Command Mode

- /exec/configure

operation-packet-priority normal

{ { no | default } operation-packet-priority | operation-packet-priority { normal | high } }

Syntax Description

no	
default	Set a command to its defaults
operation-packet-priority	Set operation packet properties
high	Priority high
normal	Priority normal

Command Mode

- /exec/configure/ip-sla/jitter

option exporter-stats timeout

{ [no] option exporter-stats timeout <time> | no option exporter-stats timeout }

Syntax Description

option	Version 9 Option Templates and Data
exporter-stats	Exporter Statistics Option
timeout	Option resend time
<i>time</i>	Time in seconds

Command Mode

- /exec/configure/nfm-exporter-v9

option interface-table timeout

{ [no] option interface-table timeout <time> | no option interface-table timeout }

Syntax Description

option	Version 9 Option Templates and Data
interface-table	Interface Table Option
timeout	Option resend time
<i>time</i>	Time in seconds

Command Mode

- /exec/configure/nfm-exporter-v9

orib event-history

```
[no] orib event-history { cli | ipc | uroute | mroute | mroute_only | uhw | mhw | ha | internal } { size {
<size_in_text> | <size_in_kbytes> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
orib	Display ORIB information
event-history	ORIB event logs
cli	ORIB cli logs
ipc	ORIB ipc logs
uroute	ORIB unicast route logs
mroute	ORIB multicast route logs
mroute_only	ORIB multicast route logs without mhw
uhw	ORIB unicast platform logs
mhw	ORIB multicast platform logs
ha	ORIB ha logs
internal	ORIB internal logs
size	Configure size
<i>size_in_text</i>	Buffer size
<i>size_in_kbytes</i>	Size in kbytes

Command Mode

- /exec/configure

orib orib_api_init

```
{ orib orib_api_init <client-name> } | { orib orib_api_close } | { orib orib_add_route <client-name> <mac>
[ <nh> | <nh6> ] <if-name> } | { orib orib_delete_route <client-name> <mac> [ <nh> | <nh6> ] <if-name> }
```

Syntax Description

orib	Use ORIB API routines from OTV process
orib_api_init	Call orib_api_init() from the OTV process
orib_api_close	Call orib_api_close() from the OTV process
orib_add_route	Call orib_add_route() from OTV process
orib_delete_route	Call orib_delete_route() from OTV process
<i>client-name</i>	Client name registered to ORIB process
<i>mac</i>	VLAN-ID/MAC Address tuple in vvvv-aaaa.bbbb.cccc format
<i>nh</i>	(Optional) Next-hop IPv4 address
<i>if-name</i>	Next-hop interface (iod)

Command Mode

- /exec

ospfv3 authentication

```
ospfv3 authentication { disable | ipsec spi <spi_id> { md5 <akey> | sha1 <akey> } } | no ospfv3 authentication
{ disable | ipsec spi <spi_id> }
```

Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
authentication	Enable Authentication
disable	Disable Authentication
ipsec	IPSec
spi	Security Parameter Index
<i>spi_id</i>	SPI Value
md5	Use the MD5 algorithm
<i>akey</i>	Authentication Key
sha1	Use the SHA1 algorithm
<i>akey</i>	Authentication Key

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ospfv3 bfd

[no] ospfv3 bfd [disable]

Syntax Description

no	(Optional) Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
bfd	Enable BFD on this interface
disable	(Optional) Disable BFD on this interface

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mgmt-config

ospfv3 cost

{ ospfv3 cost <cost> } | { no ospfv3 cost [<cost>] }

Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
cost	Cost associated with interface
<i>cost</i>	Cost value

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ospfv3 dead-interval

{ ospfv3 dead-interval <interval> } | { no ospfv3 dead-interval [<interval>] }

Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
dead-interval	Dead interval
<i>interval</i>	(seconds)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ospfv3 event-history

```
[ no ospfv3 event-history { adjacency | event | ha | flooding | lsa | spf | redistribution | hello | spf-trigger } ] |
[ ospfv3 event-history { adjacency | event | ha | flooding | lsa | spf | redistribution | hello | spf-trigger } size {
<size_in_text> | <size_in_Kbytes> } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
ospfv3	(Optional) Debugging functions
event-history	(Optional) log debug events into event history buffer
adjacency	(Optional) Adjacency formation logs
event	(Optional) Internal event logs
ha	(Optional) HA and GR logs
flooding	(Optional) LSA flooding logs
lsa	(Optional) LSA generation and database logs
spf	(Optional) SPF calculation logs
redistribution	(Optional) Redistribution logs
hello	(Optional) HELLO related logs
spf-trigger	(Optional) SPF TRIGGER related logs
size	(Optional) Configure the size of the event-hist buffer
<i>size_in_text</i>	(Optional) Buffer size
<i>size_in_Kbytes</i>	(Optional) Size of the file in kbytes

Command Mode

- /exec/configure/router-ospf3

ospfv3 event-history cli size

[no ospfv3 event-history cli] | [ospfv3 event-history cli size { <size_in_text> | <size_in_Kbytes> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
ospfv3	(Optional) Debugging functions
event-history	(Optional) log debug events into event history buffer
cli	(Optional) Cli logs
size	(Optional) Configure the size of the event-hist buffer
<i>size_in_text</i>	(Optional) Buffer size
<i>size_in_Kbytes</i>	(Optional) Size of the file in kbytes

Command Mode

- /exec/configure/router-ospf3

ospfv3 event-history detail

[no] ospfv3 event-history detail

Syntax Description

no	Negate a command or set its defaults
ospfv3	Debugging functions
event-history	log debug events into event history buffer
detail	Detailed event history buffer

Command Mode

- /exec/configure/router-ospf3

ospfv3 event-history detail size

[no ospfv3 event-history detail] | [ospfv3 event-history detail size { <size_in_text> | <size_in_Kbytes> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
ospfv3	(Optional) Debugging functions
event-history	(Optional) log debug events into event history buffer
detail	(Optional) Detailed event history buffer
size	(Optional) Configure the size of the event-hist buffer
<i>size_in_text</i>	(Optional) Buffer size
<i>size_in_Kbytes</i>	(Optional) Size of the file in kbytes

Command Mode

- /exec/configure/router-ospf3

ospfv3 flood-bw-percentage

[no] ospfv3 flood-bw-percentage <percentage>

Syntax Description

no	(Optional) Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
flood-bw-percentage	Percentage of bandwidth used for flooding
<i>percentage</i>	Negate a command or set its defaults

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ospfv3 hello-interval

{ ospfv3 hello-interval <interval> } | { no ospfv3 hello-interval [<interval>] }

Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
hello-interval	Hello interval
<i>interval</i>	(seconds)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ospfv3 instance

{ ospfv3 instance <instance-id> } | { no ospfv3 instance [<instance-id>] }

Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
instance	Instance identifier
<i>instance-id</i>	Instance identifier value

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ospfv3 mtu-ignore

[no] ospfv3 mtu-ignore

Syntax Description

no	(Optional) Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
mtu-ignore	Disable OSPF MTU mismatch detection

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ospfv3 network broadcast

```
{ ospfv3 network { broadcast | point-to-point } } | { no ospfv3 network [ { broadcast | point-to-point } ] }
```

Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
network	Network type
broadcast	Specify OSPF broadcast multi-access network
point-to-point	Specify OSPF point-to-point network

Command Mode

- /exec/configure/if-broadcast /exec/configure/if-p2p /exec/configure/if-mgmt-config

ospfv3 network point-to-point

{ ospfv3 network point-to-point } | { no ospfv3 network [point-to-point] }

Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
network	Network type
point-to-point	Specify OSPF point-to-point network

Command Mode

- /exec/configure/if-loopback

ospfv3 passive-interface

[default | no] ospfv3 passive-interface

Syntax Description

default	(Optional) Undo a command
no	(Optional) Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
passive-interface	Suppress routing updates on the interface

Command Mode

- /exec/configure/if-broadcast /exec/configure/if-p2p /exec/configure/if-mgmt-config

ospfv3 priority

{ ospfv3 priority <prio> } | { no ospfv3 priority [<prio>] }

Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
priority	Router priority
<i>prio</i>	Router priority

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel /exec/configure/if-mgmt-config

ospfv3 retransmit-interval

{ ospfv3 retransmit-interval <interval> } | { no ospfv3 retransmit-interval [<interval>] }

Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
retransmit-interval	Packet retransmission interval
<i>interval</i>	(seconds)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

ospfv3 shutdown

[no] ospfv3 shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
shutdown	Shutdown ospf on this interface

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mgmt-config

ospfv3 transmit-delay

```
{ ospfv3 transmit-delay <delay> } | { no ospfv3 transmit-delay [ <delay> ] }
```

Syntax Description

no	Negate a command or set its defaults
ospfv3	OSPFv3 configuration commands
transmit-delay	Packet transmission delay
<i>delay</i>	(seconds)

Command Mode

- /exec/configure/if-igp /exec/configure/if-gre-tunnel /exec/configure/if-mpls-tunnel
/exec/configure/if-mgmt-config

other-config-flag

[no] other-config-flag <state>

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>state</i>	

Command Mode

- /exec/configure/config-ra-guard

overbudgetshut

overbudgetshut [module <module>]

Syntax Description

overbudgetshut	Shut down the specified LCs due to power over budget
module	(Optional) Module Force Shut down
<i>module</i>	(Optional) please enter the module number

Command Mode

- /exec

overbudgetsyslog

overbudgetsyslog

Syntax Description

overbudgetsyslog	Print Syslog to indicate power over budget
------------------	--

Command Mode

- /exec

overlay-encapsulation

overlay-encapsulation <encap-type> [tunnel-control-frames [<layer2-prot>]] | no overlay-encapsulation

Syntax Description

no	Negate a command or set its defaults
overlay-encapsulation	NVE Overlay Encapsulation
<i>encap-type</i>	Configure encapsulation type
tunnel-control-frames	(Optional) tunnel protocol
<i>layer2-prot</i>	(Optional) configure specific protocol

Command Mode

- /exec/configure/if-nve

overload rip

overload rip

Syntax Description

overload	
rip	Forced RIP overload

Command Mode

- /exec

overwrite-vlan

[no] overwrite-vlan <ow-vlan-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
overwrite-vlan	Overwrite the system generated vlan
<i>ow-vlan-id</i>	

Command Mode

- /exec/configure/static-host/vni

owner

{ { no | default } owner | owner <text> }

Syntax Description

no	
default	Set a command to its defaults
owner	Owner of Entry
<i>text</i>	Owner String

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp
/exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho
/exec/configure/ip-sla/http



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packet-size

{ packet-size <packetsize> }

Syntax Description

packet-size	Packet
<i>packetsize</i>	Size

Command Mode

- /exec/configure/configngoamconnectcheck

packet

{ packet <hex-string> } | { no packet }

Syntax Description

no	Negate a command or set its defaults
packet	Provide flow details starting with ethernet header in hex-string format: 0A1B ..
<i>hex-string</i>	Specify flow and payload in hex string format: 0A1B..

Command Mode

- /exec/configure/configngoamprofileflow

param-list param-list

[no] param-list <plistname> [cross-check] | param-list <plistname>

Syntax Description

no	(Optional) Negate a command or set its defaults
param-list	Configure a parameter list
<i>plistname</i>	Enter the name of the parameter list
cross-check	(Optional) Explicitly search for referencing config profile

Command Mode

- /exec/configure

parity

[no] parity { even | none | odd }

Syntax Description

no	(Optional) Negate a command or set its defaults
parity	Set terminal parity
even	Even parity
none	No parity
odd	Odd parity

Command Mode

- /exec/configure/com1

parity

[no] parity { even | none | odd }

Syntax Description

no	(Optional) Negate a command or set its defaults
parity	Set terminal parity
even	Even parity
none	No parity
odd	Odd parity

Command Mode

- /exec/configure/console

passive-interface default

[no] passive-interface default

Syntax Description

no	(Optional) Negate a command or set its defaults
passive-interface	Suppress routing updates on the interface
default	interfaces passive by default

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

passive-interface default

[no] passive-interface default

Syntax Description

no	(Optional) Negate a command or set its defaults
passive-interface	Suppress routing updates on the interface
default	interfaces passive by default

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

passive-interface default

[no] passive-interface default <level>

Syntax Description

no	(Optional) Negate a command or set its defaults
passive-interface	Suppress IS-IS PDU
default	Undo a command
<i>level</i>	IS-IS level

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

passive-interface default

[no] passive-interface default

Syntax Description

no	(Optional) Negate a command or set its defaults
passive-interface	Suppress routing updates on the interface
default	interfaces passive by default

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

password

password <password-string> | { no | default } password [<password-string>]

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
password	Configure a password for neighbor
<i>password-string</i>	Neighbor password

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-neighbor-stmp
/exec/configure/router-bgp/router-bgp-vrf-neighbor
/exec/configure/router-bgp/router-bgp-template-neighbor
/exec/configure/router-bgp/router-bgp-prefixneighbor
/exec/configure/router-bgp/router-bgp-vrf-prefixneighbor

password

```
password [ vrf { <vrf-name> | <vrf-known-name> } ] { required [ req-for <req-pfx-list> ] | { fallback | option
<seq-num> opt-for <opt-pfx-list> } { key-chain <name> } } | no password [ vrf { <vrf-name> |
<vrf-known-name> } ] { required | fallback | option <seq-num> }
```

Syntax Description

no	Negate a command or set its defaults
password	Configure LDP password
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
required	Password is required for the peer
req-for	(Optional) Prefix list specifying control on LDP peers
<i>req-pfx-list</i>	(Optional) Prefix list for LDP peers
fallback	Specifies a fallback password will follow
option	LDP password option
<i>seq-num</i>	Sequence number of the LDP password option
opt-for	Prefix list specifying control on LDP peers
<i>opt-pfx-list</i>	Prefix list for LDP peers
key-chain	Specifies a key-chain name will follow
<i>name</i>	Key-chain name

Command Mode

- /exec/configure/ldp

password

{ [no] password <passwd> }

Syntax Description

password	password
<i>passwd</i>	password

Command Mode

- /exec/configure/dot1x-cred

password prompt username

[no] password prompt username

Syntax Description

no	(Optional) Negate a command or set its defaults
password	Password for the user
prompt	Enable prompt for password
username	Enable prompt for password on username command

Command Mode

- /exec/configure

password secure-mode

[no] password secure-mode

Syntax Description

no	(Optional) Negate a command or set its defaults
password	Password for the user
secure-mode	Enable secure mode for changing password

Command Mode

- /exec/configure

password strength-check

[no] password strength-check

Syntax Description

no	(Optional) Negate a command or set its defaults
password	Password for the user
strength-check	Strength check of password

Command Mode

- /exec/configure

path-option dynamic explicit identifier

```
[no] path-option [ protect ] <pref> | path-option <pref> dynamic [ attributes <attr-name> | { bandwidth <kbps> | lockdown } + ] | path-option [ protect ] <pref> explicit { identifier <id-num> | name <name> } [ { attributes <attr-name> [ verbatim ] | { bandwidth <kbps> | lockdown | verbatim } + } ]
```

Syntax Description

no	Negate a command or set its defaults
path-option	a primary or fallback path setup option
protect	(Optional) a path protection setup option
<i>pref</i>	preference for this path option
dynamic	setup based on dynamically calculated path
explicit	setup based on preconfigured path
identifier	Specify an IP explicit path by number
<i>id-num</i>	Number of ip explicit path
name	Specify an IP explicit path by name
<i>name</i>	Name of ip explicit path
attributes	(Optional) Specify an LSP attribute list
<i>attr-name</i>	(Optional) Name of LSP attribute list
verbatim	(Optional) send out path as is, with no checking
bandwidth	(Optional) override the bandwidth configured on the tunnel
<i>kbps</i>	(Optional) bandwidth requirement in kbps
lockdown	(Optional) not a candidate for reoptimization
<i>kbps</i>	(Optional) bandwidth requirement in kbps
lockdown	(Optional) not a candidate for reoptimization

Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

path-selection metric igp

path-selection metric { igp | te } | no path-selection metric

Syntax Description

no	Negate a command or set its defaults
path-selection	Path Selection Configuration
metric	Metric Type Configuration
igp	Use IGP metric
te	Use TE metric (*Default)

Command Mode

- /exec/configure/te

path-selection metric igp

[no] path-selection metric | path-selection metric { igp | te }

Syntax Description

no	Negate a command or set its defaults
path-selection	Path Selection Configuration
metric	Metric type for path calculation
igp	Use IGP Metric
te	Use TE Metric

Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

path-selection overload allow

[no] path-selection overload allow | path-selection overload allow { head [middle] [tail] | middle [tail] | tail }

Syntax Description

no	Negate a command or set its defaults
path-selection	Path Selection Configuration
overload	Overload Node Configuration
allow	Allow overloaded nodes in CSPFs
head	Allow overloaded head node in TE CSPF
middle	(Optional) Allow overloaded middle node in TE CSPF
tail	(Optional) Allow overloaded tail node in TE CSPF

Command Mode

- /exec/configure/te

path

path <dn> [depth { <level> | unbounded }] [query-condition <query>] [filter-condition <filter>] | no path <dn>

Syntax Description

no	Negate a command or set its defaults
path	Create a sensor path
depth	(Optional) Specify a retrieval depth
query-condition	(Optional) Specify a query condition
filter-condition	(Optional) Specify a filter condition
<i>dn</i>	Distinguished Name
unbounded	(Optional) Retrieve entire tree
<i>level</i>	(Optional) Retrieval depth
<i>query</i>	(Optional) query condition
<i>filter</i>	(Optional) Filter Condition

Command Mode

- /exec/configure/telemetry/sensor-group

path next-hop out-label-stack

```
{ no path <path-num> | path <path-num> next-hop <next-hop> out-label-stack { <static-outlabel> + |
implicit-null } }
```

Syntax Description

no	Negate a command or set its defaults
path	Configure an outgoing path for the LSP
<i>path-num</i>	Path identifier
next-hop	Nexthop
<i>next-hop</i>	Destination IPv4 next hop
out-label-stack	Series of output labels
<i>static-outlabel</i>	Label Value
implicit-null	IETF MPLS implicit null label (3)

Command Mode

- /exec/configure/mpls_static/ipv4/lsp/inlabel/forw

pathtrace nve

```
pathtrace nve { { { ip { <numeric10> | unknown } } [ vrf { <vrf-name> | <vrf-known-name> } ] { <dot1qid1>
} } } | mac <dmac> <dot1qid> [ <intfid> ] } [ profile <pid> ] [ payload { [ mac-addr <dstmac> <smac> ] [
dot1q <dot1q-id> ] [ ip <dstip> <srcip> | ipv6 <dstipv6> <srcipv6> ] [ port <sport> <dport> ] [ proto <proto-id>
] [ src-intf <src_if> ] } payload-end ] [ copy-to <copy-to-ip> [ ext-id <ext_id> ] ] [
```

Syntax Description

pathtrace	Test
nve	network virtualization edge
<i>numeric10</i>	Peer vtep ip address
unknown	Peer vtep ip is unknown, will be derived from payload
<i>intfid</i>	(Optional) Name of the interface for ngoam pathtrace on which dot1q is configured
payload	(Optional) Enter customer payload
mac-addr	(Optional) Mac
<i>dstmac</i>	(Optional) Destination mac address
<i>smac</i>	(Optional) Source mac address
dot1q	(Optional) Encapsulation dot1q/bd
<i>dot1q-id</i>	(Optional) Encapsulation dot1q/bd on which the mac is learnt
ip	ip address
<i>dstip</i>	(Optional) Destination ipv4 address
<i>srcip</i>	(Optional) source ipv4 address
ipv6	(Optional) ipv6 address
port	(Optional) L4 port info
<i>sport</i>	(Optional) Source port
<i>dport</i>	(Optional) Destination port
proto	(Optional) Protocol
<i>proto-id</i>	(Optional) IANA Protocol id
src-intf	(Optional) Interface on which the host with src ip of the payload is connected
<i>src_if</i>	(Optional) Interface

payload-end	(Optional) End payload info input
profile	(Optional) NGOAM profile to use
<i>pid</i>	(Optional) NGOAM profile id
mac	Mac
<i>dmac</i>	Destination mac address
<i>dot1qid</i>	Encapsulation dot1q/bd on which the mac is learnt
<i>dot1qid1</i>	(Optional) Encapsulation dot1q/bd on which the mac is learnt
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
copy-to	(Optional) Send responses to this IP over mgmt vrf instead
<i>copy-to-ip</i>	(Optional) IPv4 addr to send responses to
ext-id	(Optional) Identifier passed from caller
<i>ext_id</i>	(Optional) 32-bit identifier

Command Mode

- /exec

pause

[no] pause { buffer-size <size-in-bytes> pause-threshold <xoff-bytes> resume-threshold <xon-bytes> }

Syntax Description

no	(Optional) Negate a command or set its defaults
pause	PAUSE characteristics (CBFC)
buffer-size	Ingress buffer size in bytes
pause-threshold	Buffer limit for pausing in bytes
resume-threshold	Buffer limit at which to resume in bytes

Command Mode

- /exec/configure/policy-map/type/queuing/class

pause

```
[no] pause { no-drop | { delayed-drop <timeout> } | { [ buffer-size <size-in-bytes> pause-threshold <xoff-bytes>
resume-threshold <xon-bytes> ] pfc-cos <pfc-cos-list> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
pause	PAUSE charecteristics (CBFC)
no-drop	NO-DROP
delayed-drop	Enable delayed-drop for the CoS
<i>timeout</i>	Timer value for delayed drop
buffer-size	(Optional) Ingress buffer size in bytes
pause-threshold	(Optional) Buffer limit for pausing in bytes
resume-threshold	(Optional) Buffer limit at which to resume in bytes
pfc-cos	CoS values to assert PFC on
<i>pfc-cos-list</i>	List of class-of-service values

Command Mode

- /exec/configure/policy-map/type/uf/class

pause buffer-size2 pause-threshold2 resume-threshold2

[no] pause buffer-size2 <size-in-bytes> pause-threshold2 <xoff-bytes> resume-threshold2 <xon-bytes>

Syntax Description

no	(Optional) Negate a command or set its defaults
pause	PAUSE characteristics (CBFC)
buffer-size2	Ingress buffer size in bytes
pause-threshold2	Buffer limit for pausing in bytes
resume-threshold2	Buffer limit at which to resume in bytes

Command Mode

- /exec/configure/policy-map/type/queuing/class

pause priority

[no] pause { priority-group <priority-group-number> }

Syntax Description

no	(Optional) Negate a command or set its defaults
pause	PAUSE characteristics (CBFC)
priority-group	ingress priority-group to which the traffic is mapped and pause limits are applied
<i>priority-group-number</i>	Priority group value

Command Mode

- /exec/configure/policy-map/type/queuing/class

payload

[no] payload

Syntax Description

no	(Optional) Negate a command or set its defaults
payload	Configure ngoam connectivity check payload

Command Mode

- /exec/configure/configngoamconnectcheck

payload test pattern-type pad

```
{ payload { test pattern-type <test-id> | pad <pad-val> } } | { no payload { test pattern-type | pad } }
```

Syntax Description

no	Negate a command or set its defaults
payload	Configure ngoam payload
test	Configure ngoam payload test
pattern-type	Configure ngoam payload test pattern
<i>test-id</i>	Configure ngoam payload test pattern id
pad	Configure ngoam payload test pattern pad
<i>pad-val</i>	Configure ngoam payload test pad value

Command Mode

- /exec/configure/configngoamprofile

peer-gateway

peer-gateway [exclude-vlan <vlan-list>] | no peer-gateway

Syntax Description

no	Negate a command or set its defaults
peer-gateway	Enable L3 forwarding for packets destined to peer's gateway mac-address
exclude-vlan	(Optional) Specify VLANs to be excluded from peer-gateway functionality
<i>vlan-list</i>	(Optional) Specify the list of vlans

Command Mode

- /exec/configure/vpc-domain

peer-ip

[no] peer-ip <addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
peer-ip	Static IP Address Configuration
<i>addr</i>	Remote Peer IP Address

Command Mode

- /exec/configure/if-nve/vni/ingr-rep

peer-keepalive destination

```
peer-keepalive destination <dst-ip> [ [ source <src-ip> | udp-port <udp-port-num> | vrf { <vrf-name> |
<vrf-known-name> } | { interval <interval-ms> timeout <time-out> } | tos-byte <tos-byte-value> | hold-timeout
<hold-time-out> ] + | [ source <src-ip> | udp-port <udp-port-num> | vrf { <vrf-name> | <vrf-known-name>
} | { interval <interval-ms> timeout <time-out> } | tos { <tos-value> | min-delay | max-throughput |
max-reliability | min-monetary-cost | normal } | hold-timeout <hold-time-out> ] + | [ source <src-ip> | udp-port
<udp-port-num> | vrf { <vrf-name> | <vrf-known-name> } | { interval <interval-ms> timeout <time-out> } |
precedence { <prec-vlaue> | network | internet | critical | flash-override | flash | immediate | priority | routine
} | hold-timeout <hold-time-out> ] + ]
```

Syntax Description

peer-keepalive	Keepalive>Hello with peer switch
destination	specify destination ip address of peer switch
<i>dst-ip</i>	IPv4 address (A.B.C.D) of destination
source	(Optional) source interface for hello
<i>src-ip</i>	(Optional) IPv4 address (A.B.C.D) of source
udp-port	(Optional) enter UDP port number used for hello
<i>udp-port-num</i>	(Optional) udp port number for hellos
vrf	(Optional) vrf to be used for hello messages
<i>vrf-name</i>	(Optional) vrf to be used for hellos
<i>vrf-known-name</i>	(Optional) Known VRF name
interval	(Optional) enter interval in milleseconds
<i>interval-ms</i>	(Optional) Enter interval in milleseconds
timeout	(Optional) enter timeout in seconds
<i>time-out</i>	(Optional) enter timeout in seconds
precedence	(Optional) Precedence
<i>prec-vlaue</i>	(Optional) Precedence value
network	(Optional) network (7)
internet	(Optional) internet (6)
critical	(Optional) critical (5)
flash-override	(Optional) flash-override (4)
flash	(Optional) flash (3)

immediate	(Optional) immediate (2)
priority	(Optional) priority (1)
routine	(Optional) routine (0)
tos	(Optional) Type of Service
<i>tos-value</i>	(Optional) Enter 4-bit TOS value
min-delay	(Optional) min-delay (8)
max-throughput	(Optional) max-throughput (4)
max-reliability	(Optional) max-reliability (2)
min-monetary-cost	(Optional) min-monetary-cost (1)
normal	(Optional) normal (0)
tos-byte	(Optional) Type of Service Byte
<i>tos-byte-value</i>	(Optional) Enter 8-bit TOS value
hold-timeout	(Optional) hold timeout to ignore stale peer alive messages
<i>hold-time-out</i>	(Optional) Enter hold-timeout in seconds

Command Mode

- /exec/configure/vpc-domain

peer-switch

[no] peer-switch

Syntax Description

no	(Optional) Negate a command or set its defaults
peer-switch	Enable peer switch on vPC pair switches

Command Mode

- /exec/configure/vpc-domain

peer-type fabric

peer-type { fabric-external | fabric-border-leaf } | { no | default } peer-type

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
peer-type	Neighbor facing
fabric-external	Fabric external
fabric-border-leaf	Fabric Border Leaf

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

peer-vtep

[no] peer-vtep <addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
peer-vtep	Configure tunnel End Point
<i>addr</i>	Remote VTEP IP Address

Command Mode

- /exec/configure/if-nve/vni

peer ip

[no] peer ip <ip-addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
peer	ITD peer
ip	ITD peer ip
<i>ip-addr</i>	NICE node IP prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-inout

peer ip

[no] peer ip <ip-addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
peer	PLB peer
ip	PLB peer ip
<i>ip-addr</i>	NICE node IPv4 prefix in format i.i.i.i

Command Mode

- /exec/configure/plb-inout

peer local service

[no] peer local service <service-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
peer	Peer cli for sandwich mode failure notification
local	Peer involved in sandwich mode
service	Peer service involved in sandwich mode
<i>service-name</i>	Peer service name string

Command Mode

- /exec/configure/itd

peer local service

[no] peer local service <service-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
peer	Peer cli for sandwich mode failure notification
local	Peer involved in sandwich mode
service	Peer service involved in sandwich mode
<i>service-name</i>	Peer service name

Command Mode

- /exec/configure/plb

peer vdc service

[no] peer vdc <vdc-id> service <service-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
peer	Peer cli for sandwich mode failure notification
vdc	Peer VDC involved in sandwich mode
service	Peer service involved in sandwich mode
<i>vdc-id</i>	VDC name of peer VDC
<i>service-name</i>	Peer service name string

Command Mode

- /exec/configure/itd

peer vpc

[no] peer <svc-name> vpc <num>

Syntax Description

no	(Optional) Negate a command or set its defaults
peer	smart channel peer
vpc	vpc
<i>svc-name</i>	peer smart channel name
<i>num</i>	VPC number to assign to smart-channel

Command Mode

- /exec/configure/smartc

perf

```
perf [ { record { context-switch | profile } { system | process <i0> } [ <s1> ] } | { stop { all | <s0> } } | { list
} | { create-archive <s2> } | { remove { all | <s3> } } ]
```

Syntax Description

perf	Run perf tool to collect or process event data
record	(Optional) Record events to a file for later analysis
stop	(Optional) Stop a perf record.
list	(Optional) List recorded datasets
create-archive	(Optional) Create an archive of dataset for download
remove	(Optional) Remove recorded dataset(s)
all	(Optional) Act on all recorded datasets
context-switch	(Optional) Record context-switch events
profile	(Optional) Record periodic runtime samples
system	(Optional) Record events for all processes on all CPUS
process	(Optional) Record events for a specific process with the given pid
<i>i0</i>	(Optional) pid of process to record events
<i>s0</i>	(Optional) id of perf record session to stop
<i>s1</i>	(Optional) id to use for perf record session
<i>s2</i>	(Optional) id of perf dataset to create an archive
<i>s3</i>	(Optional) id of perf dataset to remove

Command Mode

- /exec

periodic-inventory notification

[no] periodic-inventory notification

Syntax Description

no	(Optional) Negate a command or set its defaults
periodic-inventory	Configure periodic software inventory message dispatch
notification	Enable periodic software inventory message dispatch

Command Mode

- /exec/configure/callhome

periodic-inventory notification interval

periodic-inventory notification { interval <i0> | timeofday <s0> }

Syntax Description

periodic-inventory	Configure periodic software inventory message dispatch
notification	Enable periodic software inventory message dispatch
interval	Configure the time period for periodic inventory
<i>i0</i>	Time period in days (default is 7 days)
timeofday	Configure the timeofday for periodic inventory in HH:MM format
<i>s0</i>	Time period in HH:MM format

Command Mode

- /exec/configure/callhome

periodic to

{ [<seqno>] | no } periodic { { Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday } +
| daily | weekdays | weekend } <stime> to <etime>

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
periodic	Periodic time and date
Monday	Monday
Tuesday	Tuesday
Wednesday	Wednesday
Thursday	Thursday
Friday	Friday
Saturday	Saturday
Sunday	Sunday
daily	Every day of the week
weekdays	Monday thru Friday
weekend	Saturday and Sunday
<i>stime</i>	Starting time
to	Ending day and time
<i>etime</i>	Ending time

Command Mode

- /exec/configure/timerange

periodic to

```
{ [ <seqno> ] | no } periodic { Monday | Tuesday | Wednesday | Thursday | Friday | Saturday | Sunday }
<stime> to { <eday> } <etime>
```

Syntax Description

<i>seqno</i>	(Optional) Sequence number
no	Negate a command or set its defaults
periodic	Periodic time and date
Monday	Monday
Tuesday	Tuesday
Wednesday	Wednesday
Thursday	Thursday
Friday	Friday
Saturday	Saturday
Sunday	Sunday
<i>eday</i>	Day of the week
<i>stime</i>	Starting time
to	Ending day and time
<i>etime</i>	Ending time

Command Mode

- /exec/configure/timerange

permit interface

[no] permit interface <if0>

Syntax Description

no	(Optional) Negate a command or set its defaults
permit	Permit access to interfaces (applicable if interface policy is 'deny')
interface	Enter the range of interfaces accessible the role
<i>if0</i>	Enter the interface range

Command Mode

- /exec/configure/role/interface

permit vlan

[no] permit vlan <vlan-mrange>

Syntax Description

no	(Optional) Negate a command or set its defaults
permit	Permit access to vlans (applicable if vlan policy is 'deny')
vlan	Enter the range of vlans accessible the role
<i>vlan-mrange</i>	Enter the vlan range

Command Mode

- /exec/configure/role/vlan

permit vrf

[no] permit vrf <vrf-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
permit	Permit access to vrf (applicable if vrf policy is 'deny')
vrf	Enter the range of vrf accessible the role
<i>vrf-name</i>	Enter the vrf name

Command Mode

- /exec/configure/role/vrf

permit vsan

[no] permit vsan <vsan-mrange>

Syntax Description

no	(Optional) Negate a command or set its defaults
permit	Permit access to vsans (applicable if vsan policy is 'deny')
vsan	Enter the range of vsans accessible the role
<i>vsan-mrange</i>	Enter the vsan range

Command Mode

- /exec/configure/role/vsan

personality

[no] personality

Syntax Description

no	(Optional) Negate a mode
personality	Config Personality

Command Mode

- /exec/configure

personality backup

```
personality backup { <uri_local> | <uri_remote> [ password <password> ] [ vrf <vrf-known-name> ] }
```

Syntax Description

personality	personality
backup	backup personality
password	(Optional) The password for personality backups
vrf	(Optional) The VRF for personality backups
<i>uri_local</i>	Personality backup local destination
<i>uri_remote</i>	Personality backup remote destination
<i>password</i>	(Optional) Password for SCP username
<i>vrf-known-name</i>	(Optional) VRF name

Command Mode

- /exec

personality restore

```
personality restore <uri> [ user-name <user> ] [ password <password> ] [ hostname <hostname> ] [ vrf
<vrf_name> ]
```

Syntax Description

personality	Personality
restore	Restore the personality file
<i>uri</i>	Personality file
user-name	(Optional) The username for downloads
<i>user</i>	(Optional) The username
password	(Optional) The password for downloads
<i>password</i>	(Optional) The password
hostname	(Optional) The hostname for downloads
<i>hostname</i>	(Optional) The hostname
vrf	(Optional) The VRF for downloads
<i>vrf_name</i>	(Optional) The VRF name

Command Mode

- /exec

phone-contact

{ phone-contact <s0> | no phone-contact }

Syntax Description

no	Negate a command or set its defaults
phone-contact	Contact person's phone number
s0	Phone number in international format(such as +1-800-123-4567)

Command Mode

- /exec/configure/callhome

ping

```
ping [ { { <alpha> | <numeric> [ loopback interface <interface> ] } | { multicast <group> interface <interface>
[ loopback ] } } [ [ source-interface <src-intf> | vrf { <vrf-name> | <vrf-known-name> } ] [ count { <count>
| unlimited } | packet-size <packetsize> | vrf { <vrf-name> | <vrf-known-name> } | interval <interval> | source
{ <alpha> | <numeric1> } | df-bit | timeout <timeout> ] + [ count { <count> | unlimited } | packet-size
<packetsize> | source-interface <src-intf> | interval <interval> | df-bit | timeout <timeout> ] + ] ]
```

Syntax Description

ping	Test
count	(Optional) Number
unlimited	(Optional) Unlimited
<i>count</i>	(Optional) Number
packet-size	(Optional) Packet
<i>packetsize</i>	(Optional) Size
source-interface	(Optional) Select source interface
<i>src-intf</i>	(Optional) Specify interface
interval	(Optional) Wait
<i>interval</i>	(Optional) Interval
<i>numeric</i>	(Optional) IP address of remote system
<i>numeric1</i>	(Optional) IP
<i>alpha</i>	(Optional) Enter
multicast	(Optional) Multicast
<i>group</i>	(Optional) Multicast
interface	(Optional) Interface
<i>interface</i>	(Optional) Interface
loopback	(Optional) Receive
source	(Optional) Source
df-bit	(Optional) Enable
timeout	(Optional) Specify
<i>timeout</i>	(Optional) Timeout
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

ping6

```
ping6 { { <host> | <hostname> } | { multicast <group> } } [ [ { count { <count> | unlimited } } | { packet-size
<packetsize> } ] [ source { <host1> | <hostname> } ] | vrf { <vrf-name> | <vrf-known-name> } | timeout
<timeout> | { interval <interval> } ] + [ [ { count { <count> | unlimited } } | { packet-size <packetsize> } | {
source-interface <src-intf> } | timeout <timeout> | { interval <interval> } ] + ]
```

Syntax Description

ping6	Test
count	(Optional) Number
<i>count</i>	(Optional) Number
unlimited	(Optional) unlimited
packet-size	(Optional) Packet
<i>packetsize</i>	(Optional) Size
source-interface	(Optional) Select source interface
<i>src-intf</i>	(Optional) Specify interface
interval	(Optional) Wait
<i>interval</i>	(Optional) Interval
<i>hostname</i>	Enter
multicast	Multicast
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
source	(Optional) Source
timeout	(Optional) Specify
<i>timeout</i>	(Optional) Timeout

Command Mode

- /exec

ping mpls

```
ping mpls { nil-fec labels <comma-separated-labels> } { output { ointerface <tx-interface> } nexthop
<nexthop-ip-addr> } [ { repeat <count> } | { { size <size> } | { sweep <min-size> <max-size> <increment>
} } | { timeout <seconds> } | { interval <milliseconds> } | { destination <addr-start> [ <addr-end> [
<addr-incr-mask> | <addr-incr> ] ] } | { source <addr> } | { exp <exp-value> } | { pad <pattern> } | { ttl <ttl>
} | { verbose } | { reply { { mode { <reply-mode-ipv4> | router-alert | control-channel | no-reply } } | { dscp
{ <dscp-bits> | af11 | af12 | af13 | af21 | af22 | af23 | af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4
| cs5 | cs6 | cs7 | default | ef } } } | { pad-tlv } } } + | { force-explicit-null } | { dsmap [ hashkey { none | {
hash-ipv4 { bitmap <bitmap-size> } } } ] } | { flags { fec } } ] +
```

Syntax Description

ping	need
mpls	Test
nil-fec	Target
labels	A
<i>comma-separated-labels</i>	A
repeat	(Optional) Repeat
<i>count</i>	(Optional) Repeat
size	(Optional) Packet
<i>size</i>	(Optional) Datagram
sweep	(Optional) Sweep
<i>min-size</i>	(Optional)
<i>max-size</i>	(Optional)
<i>increment</i>	(Optional) Sweep
timeout	(Optional) Timeout
<i>seconds</i>	(Optional) Timeout
interval	(Optional) Send
<i>milliseconds</i>	(Optional) Send
destination	(Optional) Destination
<i>addr-start</i>	(Optional) Destination
<i>addr-end</i>	(Optional) Destination
<i>addr-incr-mask</i>	(Optional) Destination

<i>addr-incr</i>	(Optional) Destination
source	(Optional) Source
<i>addr</i>	(Optional) Source
exp	(Optional) EXP
<i>exp-value</i>	(Optional) EXP
pad	(Optional) Pad
<i>pattern</i>	(Optional) Pad
ttl	(Optional) Time
<i>ttl</i>	(Optional) TTL
verbose	(Optional) verbose
reply	(Optional) Reply
mode	(Optional) Reply
reply-mode-ipv4	(Optional) Send
router-alert	(Optional) Send
control-channel	(Optional) Send
no-reply	(Optional) Send
dscp	(Optional) DSCP
<i>dscp-bits</i>	(Optional) Differentiated
af11	(Optional) Match
af12	(Optional) Match
af13	(Optional) Match
af21	(Optional) Match
af22	(Optional) Match
af23	(Optional) Match
af31	(Optional) Match
af32	(Optional) Match
af33	(Optional) Match
af41	(Optional) Match
af42	(Optional) Match

af43	(Optional) Match
cs1	(Optional) Match
cs2	(Optional) Match
cs3	(Optional) Match
cs4	(Optional) Match
cs5	(Optional) Match
cs6	(Optional) Match
cs7	(Optional) Match
default	(Optional) Match
ef	(Optional) Match
pad-tlv	(Optional) Reply
force-explicit-null	(Optional) Force
output	Output
ointerface	Echo
<i>tx-interface</i>	Echo
nexthop	Next
<i>nexthop-ip-addr</i>	Next
dsmap	(Optional) Request
hashkey	(Optional) Downstream
none	(Optional) Hash
hash-ipv4	(Optional) IPv4
bitmap	(Optional) Hash
<i>bitmap-size</i>	(Optional) Multipath
flags	(Optional) Flag
fec	(Optional) Request

Command Mode

- /exec

ping nve

```
ping nve { { { { ip { <numeric10> | <numeric11> | unknown } } [ vrf { <vrf-name> | <vrf-known-name>
} ] { <dot1qid1> } } } | mac <dmac> <dot1qid> [ <intfid> ] } [ profile <pid> ] } [ payload { [ mac-addr
<dstmac> <smac> ] [ dot1q <dot1q-id> ] [ ip <dstip> <srcip> | ipv6 <dstipv6> <srcipv6> ] [ port <sport>
<dport> ] [ proto <proto-id> ] [ src-intf <src_if> ] } payload-end ] [ source { <numeric1> | <numeric2> } ]
```

Syntax Description

<i>f</i>	<count>
ping	Test
nve	network virtualization edge
<i>numeric10</i>	Ipv4 address of remote host / VTEP
unknown	Peer vtep ip is unknown, Applicable only for channel Nv03
<i>dot1qid</i>	Encapsulation dot1q/bd on which the mac is learnt
<i>intfid</i>	(Optional) Name of the interface for ngoam ping on which dot1q is configured
payload	(Optional) Enter customer payload
port	(Optional) L4 port info
<i>sport</i>	(Optional) Source port
<i>dport</i>	(Optional) Destination port
proto	(Optional) Protocol
<i>proto-id</i>	(Optional) IANA Protocol id
src-intf	(Optional) Interface on which the host with src ip of the payload is connected
<i>src_if</i>	(Optional) Interface
payload-end	(Optional) End of payload info
profile	(Optional) NGOAM profile to use
<i>pid</i>	(Optional) NGOAM profile id
mac	Mac
mac-addr	(Optional) Mac
ip	ip address
<i>dstip</i>	(Optional) Destination ipv4 address

<i>srcip</i>	(Optional) source ipv4 address
<i>ipv6</i>	(Optional) ipv6 address
<i>dmac</i>	Destination mac address
<i>dstmac</i>	(Optional) Destination mac address
<i>smac</i>	(Optional) Source mac address
<i>dot1q</i>	(Optional) Encapsulation dot1q/bd
<i>dot1q-id</i>	(Optional) Encapsulation dot1q/bd on which the mac is learnt
<i>dot1qid1</i>	(Optional) Encapsulation dot1q/bd on which the mac is learnt
<i>vrf</i>	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>source</i>	(Optional) Source
<i>numeric1</i>	(Optional) IP

Command Mode

- /exec

pktmgr cache disable

{ [no] pktmgr cache disable }

Syntax Description

no	(Optional) Negate a command or set its defaults
pktmgr	packet manager
cache	Disable cache
disable	Disable cache

Command Mode

- /exec/configure

pktmgr discard

```
{ [ no ] pktmgr discard [ type <type> ] [ direction <direction> ] [ detail ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
pktmgr	packet manager
discard	discard CPI-bound output packets
detail	(Optional) detailed discard info
direction	(Optional) pm debug-filter direction
<i>direction</i>	(Optional) pm direction
type	(Optional) Driver type
<i>type</i>	(Optional) Driver type

Command Mode

- /exec

pktmgr internal event-history size

[no] pktmgr internal event-history { errors | control | log | ha | pkt-errors | pkt-buffer } size { <size_in_text> | <size_in_Kbytes> }

Syntax Description

no	(Optional) Negate a command or set its defaults
internal	Commands for internal use
pktmgr	Display Packet Manager information
event-history	various event logs of Pktmgr
errors	error logs of Pktmgr
control	control message of Pktmgr
log	syslog message of Pktmgr
ha	ha debug message of Pktmgr
pkt-errors	pkt error message of Pktmgr
pkt-buffer	pkt buffers message of Pktmgr
size	Configure the size of the event-hist buffer
<i>size_in_text</i>	Buffer size
<i>size_in_Kbytes</i>	Size of the file in kbytes

Command Mode

- /exec

pktmgr internal mts-queue

{ pktmgr internal mts-queue <size> } | { no pktmgr internal mts-queue }

Syntax Description

no	Negate a command or set its defaults
pktmgr	Display Packet Manager information
internal	Commands for internal use
mts-queue	mts-queue
<i>size</i>	Size for pktmgr data sap qlimit

Command Mode

- /exec/configure

pktmgr internal span-drop enable

[no] pktmgr internal span-drop { enable | disable }

Syntax Description

no	(Optional) Negate a command or set its defaults
pktmgr	Display Packet Manager information
internal	Commands for internal use
span-drop	Enable/Disable span to sup packet drops
enable	Enable span to sup packet drops
disable	Dsiable span to sup packet drops

Command Mode

- /exec

pktmgr internal span-drop enable

[no] pktmgr internal span-drop { enable | disable }

Syntax Description

no	(Optional) Negate a command or set its defaults
pktmgr	Display Packet Manager information
internal	Commands for internal use
span-drop	Enable/Disable span to sup packet drops
enable	Enable span to sup packet drops
disable	Dsiable span to sup packet drops

Command Mode

- /exec

platform access-list capture

[no] { platform | hardware } access-list capture

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
access-list	Access Control List
capture	Configure ACL capture

Command Mode

- /exec/configure

platform access-list fp_dnl

[no] { platform | hardware } access-list fp_dnl

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
access-list	Access control list
fp_dnl	Fabric path - do not learn mac from broadcast

Command Mode

- /exec/configure

platform access-list update

[no] { platform | hardware } access-list update { { atomic [strict] } | { default-result permit } }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
access-list	Access Control List
update	Configure atomic/non-atomic update and default-result
atomic	Enable atomic update of access-list in hardware
strict	(Optional) Strict check on TCAM size for using mutliple features
default-result	Default access-list result during non-atomic hardware update
permit	Permit all packets during non-atomic update

Command Mode

- /exec/configure

platform fabricpath mac-learning module

[no] { platform | hardware } fabricpath mac-learning module <module> [port-group { 1-4 | 5-8 | 9-12 | 13-16 | 17-20 | 21-24 | 25-28 | 29-32 | 33-36 | 37-40 | 41-44 | 45-48 } +]

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
fabricpath	Fabric Path
mac-learning	MAC Learning
module	Specify a module number
<i>module</i>	Specify a module number
port-group	(Optional) Port Group

Command Mode

- /exec/configure

platform forwarding interface statistics mode mpls

```
[no] { platform | hardware } forwarding interface statistics mode { mpls | default } [ module <module-num> ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
forwarding	Hardware forwarding
interface	Interface
statistics	Statistics
mode	Statistics mode
mpls	Mpls mode
default	Default mode
module	(Optional) Specify a module number
<i>module-num</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform forwarding layer-2 f1 exclude supervisor

[no] { platform | hardware } forwarding layer-2 f1 exclude supervisor

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
forwarding	Forwarding information
layer-2	L2 only mode
f1	N7K-F132XP-15 module
exclude	Exclude supervisor from getting copies of ARP and multicast packets
supervisor	Supervisor module

Command Mode

- /exec/configure

platform ip verify

```
[no] { platform | hardware } ip verify { address { source { broadcast | multicast } | class-e | destination { zero
} | identical | reserved } | checksum | protocol | fragment | length { minimum | consistent | maximum { max-frag
| udp | max-tcp } } | tcp { tiny-frag } | version | syslog }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
ip	IP
verify	Enable IPv4 and some IPv6 packet validation checks in hardware
address	IPv4 Source and destination address validation
source	Check source address
broadcast	Source address is 255.255.255.255
multicast	Source address is 224.x.x.x
destination	Check destination address
zero	Destination address is 0.0.0.0
class-e	Class E IDS check
identical	Same IP SA and DA
reserved	Source address is 127.x.x.x
checksum	Verify IPv4 and IPv6 packet checksum
protocol	Verify IP protocol
fragment	Check IPv4 and IPv6 fragment with non-zero offset and DF bit active
length	Validate IPv4 packet header and payload length
minimum	Minimum IPv4 header length
consistent	Actual frame size is equal to or more than IPv4 length plus ethernet header
maximum	Check max fragment offset and payload length
max-frag	Fragment offset field value
udp	Maximum UDP length has to be less than IPv4 payload length

max-tcp	Maximum TCP length has to be less than IPv4 payload length
tcp	Validate TCP packet header
tiny-frag	Check TCP tiny fragment
version	Must be 4 for an ethertype of IPv4 (0x0800)
syslog	Syslog Messages logging configuration for IDS check drops

Command Mode

- /exec/configure

platform ipv6 verify

[no] { platform | hardware } ipv6 verify { length { consistent | maximum { max-frag | udp | max-tcp } } | tcp { tiny-frag } | version }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
ipv6	IPv6
verify	Enable IPv6 packet validation checks in hardware
length	Validate IPv6 packet header and payload length
consistent	Actual frame size is equal to or more than IPv6 length plus ethernet header
maximum	Check max fragment offset and payload length
max-frag	Fragment offset field value
udp	Maximum UDP length has to be less than IPv6 payload length
max-tcp	Maximum TCP length has to be less than IPv6 payload length
tcp	Validate TCP packet header
tiny-frag	Check TCP tiny fragment
version	Must be 6 for an ethertype of IPv6 (0x86DD)

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { afd profile <prof-opts> [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
afd	Approximate Fair Dropping
profile	AFD profiles
<i>prof-opts</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

[no] { platform | hardware } qos { min-buffer qos-group <buff-prof-opts> [module <module>] }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
min-buffer	minimum/reserved buffer selection
qos-group	Qos Group
<i>buff-prof-opts</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { ns-mcq3-alias qos-group <qos-grp-val> [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure QoS related configuration
ns-mcq3-alias	Select qos-group to which to divert qos-group-3 Multicast traffic
qos-group	Qos Group
<i>qos-grp-val</i>	QoS group value
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

[no] { platform | hardware } qos { ing-pg-hdrm-reserve percent <percent-val> [module <module>] }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
ing-pg-hdrm-reserve	Set Ingress PG Headroom reservation
percent	PG Headroom reservation percent
<i>percent-val</i>	percent of PG Headroom to reserve
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

[no] { platform | hardware } qos { burst-detect max-records <val> }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
burst-detect	Set OOBST burst monitor configs
max-records	Set OOBST burst monitor max records
<i>val</i>	maximum number of records to monitor

Command Mode

- /exec/configure

platform qos

[no] { platform | hardware } qos { oq-drops type <sel> [module <module>] }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
oq-drops	per output queue drops
type	type of drops - occ/wred/both
<i>sel</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { dynamic-packet-prioritization age-period <period> usec [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
dynamic-packet-prioritization	Dynamic Packet Prioritization
age-period	Aging Period
<i>period</i>	Aging Period
usec	micro seconds
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { dynamic-packet-prioritization max-num-pkts <pkts> [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
dynamic-packet-prioritization	Dynamic Packet Prioritization
max-num-pkts	Maximum number of packets prioritized
<i>pkts</i>	Number of packets
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { etrap age-period <period> usec [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
etrap	Elephant Trap
age-period	Aging Period
<i>period</i>	Aging Period
usec	micro seconds
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

[no] { platform | hardware } qos { etrap byte-count <count> [module <module>] }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
etrap	Elephant Trap
byte-count	Number of bytes to become elephant flow
<i>count</i>	Number of bytes
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

```
[no] { platform | hardware } qos { etrap bandwidth-threshold <bw> bytes [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
etrap	Elephant Trap
bandwidth-threshold	Bandwidth threshold for elephant flow
<i>bw</i>	Number of bytes
bytes	Bytes
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos

[no] { platform | hardware } qos { buffer input peak <sel> [module <module>] }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
buffer	buffer config
input	input buffer
peak	peak counter type
<i>sel</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos buffer peak monitor counter0 class

[no] { platform | hardware } qos buffer peak monitor counter0 class <classes>

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
buffer	buffer config
peak	Configure peak control
monitor	monitor peak
counter0	selecting counter 0 for assigning classes
class	class(es) to monitor
<i>classes</i>	qos-group

Command Mode

- /exec/configure

platform qos buffer peak monitor counter1 class

[no] { platform | hardware } qos buffer peak monitor counter1 class { <classes> | none }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
buffer	buffer config
peak	Configure peak control
monitor	monitor peak
counter1	selecting counter 1 for assigning classes
class	class(es) to monitor
<i>classes</i>	qos-group
none	none

Command Mode

- /exec/configure

platform qos classify ns-only

[no] { platform | hardware } qos classify ns-only

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Quality Of Service
classify	Configure qos classification
ns-only	Enable qos classification on NS only in hardware

Command Mode

- /exec/configure

platform qos eq

```
[no] { platform | hardware } qos eq { stats-class qos-group { all | <qos-grp-val> } [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure QoS related configuration
eq	Extended Output Queue(EOQ) related configuration
stats-class	Select class for which to report the statistics
qos-group	Qos Group
<i>qos-grp-val</i>	QoS group value
all	all Qos Groups
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos include ipg

[no] { platform | hardware } qos include { ipg [module <module>] }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
include	include specific configuration param
ipg	Select whether to include IPG in Shaping/Policing
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos ing

[no] { platform | hardware } qos { ing-pg-share [module <module>] }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
ing-pg-share	Select Ingress PG Shared Buffer Usage
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos ing

```
[no] { platform | hardware } qos { ing-pg-no-min [ pgmin <pgmin> ] [ module <module> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
ing-pg-no-min	Enable PG Min
pgmin	(Optional) Set PG Min Value
<i>pgmin</i>	(Optional) PG Min Value
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos mac ipg

{ platform | hardware } qos mac ipg <val> | no { platform | hardware } qos mac ipg [<val>]

Syntax Description

no	Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
mac	MAC
ipg	Mac IPG Value
val	new Mac IPG value in byte

Command Mode

- /exec/configure

platform qos nodrop-PG-thresholds PG-size

[no] { platform | hardware } qos nodrop-PG-thresholds PG-size <pg-total>

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
nodrop-PG-thresholds	Configure No-drop Pool Group thresholds
PG-size	Configure No-drop Pool Group size
<i>pg-total</i>	Pool Group size

Command Mode

- /exec/configure

platform qos nodrop-PG-thresholds PG-size Red-threshold Yellow-threshold Green-threshold

[no] { platform | hardware } qos nodrop-PG-thresholds PG-size <pg-total> Red-threshold <pg-red> Yellow-threshold <pg-yellow> Green-threshold <pg-green>

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
nodrop-PG-thresholds	Configure No-drop Pool Group thresholds
PG-size	Configure No-drop Pool Group size
<i>pg-total</i>	Pool Group size
Red-threshold	Configure No-drop PG red threshold
<i>pg-red</i>	PG red threshold
Yellow-threshold	Configure No-drop PG yellow threshold
<i>pg-yellow</i>	PG yellow threshold
Green-threshold	Configure No-drop PG green threshold
<i>pg-green</i>	PG green threshold

Command Mode

- /exec/configure

platform qos nodrop-queue-thresholds Queue-yellow Queue-green

[no] { platform | hardware } qos nodrop-queue-thresholds Queue-yellow <q-yellow> Queue-green <q-green>

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
nodrop-queue-thresholds	Configure No-drop PG's Queue thresholds
Queue-yellow	Configure No-drop queue yellow threshold
<i>q-yellow</i>	Queue yellow threshold
Queue-green	Configure No-drop PG green threshold
<i>q-green</i>	PG green threshold

Command Mode

- /exec/configure

platform qos ns

[no] { platform | hardware } qos { ns-buffer-profile <buff-prof-opts> [module <module>] }

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
ns-buffer-profile	NorthStar buffer absorption profiles
<i>buff-prof-opts</i>	
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

platform qos q-noise percent

[no] { platform | hardware } qos q-noise percent <noise>

Syntax Description

no	(Optional) Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
qos	Configure qos related configuration
q-noise	Configure noise thresholds
percent	Noise threshold in percentage of dynamic/static queue_max
<i>noise</i>	Noise percent

Command Mode

- /exec/configure

platform rate-limiter

```
{ platform | hardware } rate-limiter { layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 { <l2-opts> } | <opts> | fl <fl-opts> } { <pps> [ burst <burst> ] | disable } [ module <module> [ port <start> <end> ] ] | no { platform | hardware } rate-limiter { layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 { <l2-opts> } | <opts> | fl <fl-opts> } [ disable ] [ <pps> ] [ burst <burst> ] [ module <module> [ port <start> <end> ] ]
```

Syntax Description

no	Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
rate-limiter	Configure Rate-Limiter for packets forwarded
layer-3	Layer-3 control and Routed packets
<i>l3-opts</i>	
multicast	Multicast data packets
<i>mcast-opts</i>	
layer-2	Layer-2 control and Bridged packets
<i>l2-opts</i>	
<i>opts</i>	
<i>pps</i>	value in packets per sec
fl	Control packets from F1 modules to supervisor
<i>fl-opts</i>	
disable	Disable the rate-limiter
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
port	(Optional) Port range
<i>start</i>	(Optional) Port start index
<i>end</i>	(Optional) Port end index
burst	(Optional) Modify burst parameter
<i>burst</i>	(Optional) value of burst size

Command Mode

- /exec/configure

platform rate-limiter

```
{ platform | hardware } rate-limiter { layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 { <l2-opts> } | <opts> | fl <fl-opts> } { <pps> [ burst <burst> ] | disable } [ module <module> [ port <start> <end> ] ] | no { platform | hardware } rate-limiter { layer-3 { <l3-opts> | multicast <mcast-opts> } | layer-2 { <l2-opts> } | <opts> | fl <fl-opts> } [ disable ] [ <pps> ] [ burst <burst> ] [ module <module> [ port <start> <end> ] ]
```

Syntax Description

no	Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
rate-limiter	Configure Rate-Limiter for packets forwarded
layer-3	Layer-3 control and Routed packets
<i>l3-opts</i>	
multicast	Multicast data packets
<i>mcast-opts</i>	
layer-2	Layer-2 control and Bridged packets
<i>l2-opts</i>	
<i>opts</i>	
<i>pps</i>	value in kbits per sec
fl	Control packets from F1 modules to supervisor
<i>fl-opts</i>	
disable	Disable the rate-limiter
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
port	(Optional) Port range
<i>start</i>	(Optional) Port start index
<i>end</i>	(Optional) Port end index
burst	(Optional) Modify burst parameter
<i>burst</i>	(Optional) value of burst size

Command Mode

- /exec/configure

platform rate-limiter access-list-log

```
{ platform | hardware } rate-limiter access-list-log { <pps> [ burst <burst> ] | disable } [ module <module> [ port <start> <end> ] ] | no { platform | hardware } rate-limiter access-list-log [ disable ] [ <pps> ] [ burst <burst> ] [ module <module> [ port <start> <end> ] ]
```

Syntax Description

no	Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
rate-limiter	Configure Rate-Limiter for packets forwarded
access-list-log	Packets copied to supervisor for access-list logging
<i>pps</i>	value in packets per sec
disable	Disable the rate-limiter
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
port	(Optional) Port range
<i>start</i>	(Optional) Port start index
<i>end</i>	(Optional) Port end index
burst	(Optional) Modify burst parameter
<i>burst</i>	(Optional) value of burst size

Command Mode

- /exec/configure

platform rate-limiter span-egress

```
{ platform | hardware } rate-limiter span-egress <rate> [ module <module> ] | no { platform | hardware }
rate-limiter span-egress [ <rate> ] [ module <module> ]
```

Syntax Description

no	Negate a command or set its defaults
platform	Platform configuration commands
hardware	Hardware Internal Information
rate-limiter	Configure Rate-Limiter for packets forwarded
span-egress	SPAN/ERSPAN egress packets
<i>rate</i>	value in kbit per sec
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number

Command Mode

- /exec/configure

plb

{ plb <service-name> } | { no plb <service-name> }

Syntax Description

no	Negate a command or set its defaults
plb	Configure PLB
<i>service-name</i>	Configure PLB service

Command Mode

- /exec/configure

plb analytics

{ plb analytics <service-name> } | { no plb analytics <service-name> }

Syntax Description

no	Negate a command or set its defaults
plb	Configure PLB
analytics	Enable PLB service analytics
<i>service-name</i>	PLB service name

Command Mode

- /exec/configure

plb device-group

{ plb device-group <group-name> } | { no plb device-group <group-name> }

Syntax Description

no	Negate a command or set its defaults
plb	Configure PLB
device-group	Configure PLB device group
<i>group-name</i>	Device group-name

Command Mode

- /exec/configure

plb session device-group

{ plb session device-group <group-name> } | { no plb session device-group <group-name> }

Syntax Description

no	Negate a command or set its defaults
plb	Configure PLB
session	Configure PLB session
device-group	Configure PLB device group
<i>group-name</i>	Device group-name

Command Mode

- /exec/configure

plugin-test load

```
plugin-test load <uri0> [ [ <uri1> ] [ <uri2> ] ]
```

Syntax Description

plugin-test	PLUGIN test
load	PLUGIN test load
<i>uri0</i>	Enter image name
<i>uri1</i>	(Optional) Enter image name
<i>uri2</i>	(Optional) Enter image name

Command Mode

- /exec

plugin-test unload

```
plugin-test unload <s0> [ [ <s1> ] [ <s2> ] ]
```

Syntax Description

plugin-test	PLUGIN test
unload	plugin test unload
<i>s0</i>	Enter swid
<i>s1</i>	(Optional) Enter swid
<i>s2</i>	(Optional) Enter swid

Command Mode

- /exec

police

```
[no] police [ { [ cir ] { <cir-val> [ <opt_kbps_mbps_gbps_pps_cir> ] | percent <cir-perc> } } { [ [ bc ]
<bc-val> [ <opt_kbytes_mbytes_gbytes_bc> ] } ] } { [ { pir { <pir> [ <opt_kbps_mbps_gbps_pps_pir> ] |
percent1 <pir-perc> } } [ [ be ] <be-val> [ <opt_kbytes_mbytes_gbytes_be> ] ] } ] } { [ { conform {
<opt_drop_transmit_conform> | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit { <set-dscp-val> |
<opt_set_dscp> } } | { set-prec-transmit { <set-prec-val> | <opt_set_prec> } } } ] [ { exceed {
<opt_drop_transmit_exceed> | { set dscp1 dscp2 table cir-markdown-map } } ] [ { violate {
<opt_drop_transmit_violate> | { set1 dscp3 dscp4 table1 pir-markdown-map } } } ] ] ] }
```

Syntax Description

no	Negate a command or set its defaults
police	Police
cir	(Optional) Specify committed information rate
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional) Specify rate as percentage of interface data-rate
pir	(Optional) Specify peak information rate
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional) Specify rate as percentage of interface data-rate
be	(Optional) Specify extended burst
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
bc	(Optional) Specify committed burst
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
conform	(Optional) Specify a conform action
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional) Set conform action cos val
<i>set-cos-val</i>	(Optional) 802.1Q Class of Service value
set-dscp-transmit	(Optional) Set conform action dscp val
<i>set-dscp-val</i>	(Optional) DSCP value
<i>opt_set_dscp</i>	(Optional)
set-prec-transmit	(Optional) Set conform action precedence val
<i>set-prec-val</i>	(Optional) IP Precedence value
<i>opt_set_prec</i>	(Optional)

exceed	(Optional) Specify a exceed action
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional) Set exceed action to cir-markdown-map
dscp1	(Optional) Exceed from field
dscp2	(Optional) Exceed to field
table	(Optional) To specify table name
cir-markdown-map	(Optional) Well known markdown map
violate	(Optional) Specify a violate action
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional) Set violate action to pir-markdown-map
dscp3	(Optional) Violate from field
dscp4	(Optional) Violate to field
table1	(Optional) To specify table name
pir-markdown-map	(Optional) Well known markdown map

Command Mode

- /exec/configure/pmap/class

police

```
[no] police [ { [ cir ] { <cir-val> [ <opt_kbps_mbps_gbps_pps_cir> ] | percent <cir-perc> } } { [ [ bc ]
<bc-val> [ <opt_kbytes_mbytes_gbytes_bc> ] ] } } { [ { pir { <pir> [ <opt_kbps_mbps_gbps_pps_pir> ] |
percent1 <pir-perc> } } [ [ be ] <be-val> [ <opt_kbytes_mbytes_gbytes_be> ] ] ] } } { [ { conform {
<opt_drop_transmit_conform> | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit { <set-dscp-val> |
<opt_set_dscp> } } | { set-prec-transmit { <set-prec-val> | <opt_set_prec> } } } ] [ { exceed {
<opt_drop_transmit_exceed> | { set dscp1 dscp2 table cir-markdown-map } } ] [ { violate {
<opt_drop_transmit_violate> | { set1 dscp3 dscp4 table1 pir-markdown-map } } } ] ] ] ] }
```

Syntax Description

no	Negate a command or set its defaults
police	Police
cir	(Optional) Specify committed information rate
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	(Optional) Specify rate as percentage of interface data-rate
pir	(Optional) Specify peak information rate
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional) Specify rate as percentage of interface data-rate
be	(Optional) Specify extended burst
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
bc	(Optional) Specify committed burst
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
conform	(Optional) Specify a conform action
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional) Set conform action cos val
<i>set-cos-val</i>	(Optional) 802.1Q Class of Service value
set-dscp-transmit	(Optional) Set conform action dscp val
<i>set-dscp-val</i>	(Optional) DSCP value
<i>opt_set_dscp</i>	(Optional)
set-prec-transmit	(Optional) Set conform action precedence val
<i>set-prec-val</i>	(Optional) IP Precedence value
<i>opt_set_prec</i>	(Optional)

exceed	(Optional) Specify a exceed action
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional) Set exceed action to cir-markdown-map
dscp1	(Optional) Exceed from field
dscp2	(Optional) Exceed to field
table	(Optional) To specify table name
cir-markdown-map	(Optional) Well known markdown map
violate	(Optional) Specify a violate action
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional) Set violate action to pir-markdown-map
dscp3	(Optional) Violate from field
dscp4	(Optional) Violate to field
table1	(Optional) To specify table name
pir-markdown-map	(Optional) Well known markdown map

Command Mode

- /exec/configure/pmap/class

police

```
[no] police { { [ cir ] { <cir-val> [ bps | kbps | mbps | gbps | pps ] | percent <cir-perc> } [ [ bc ] {
<committed-burst> [ bytes | kbytes | mbytes | ms | us | packets ] } ] [ pir { <pir-val> [ bps2 | kbps2 | mbps2 |
gbps2 | pps2 ] | percent <pir-perc> } [ [ be ] { <extended-burst> [ bytes2 | kbytes2 | mbytes2 | ms2 | us2 |
packets2 ] } ] ] [ conform { transmit | set-prec-transmit { <prec-val> | <prec-enum> } | set-dscp-transmit {
<dscp-val> | <dscp-enum> } | set-cos-transmit <cos-val> | set-discard-class-transmit <disc-class-val> |
set-qos-transmit <qos-grp-val> | set-mpls-exp-imposition-transmit <exp-value-imp> |
set-mpls-exp-topmost-transmit <exp-value-top> } [ exceed { transmit1 | drop1 | set <exc-frm-field>
<exc-to-field> table cir-markdown-map | set-prec-transmit1 { <prec-val1> | <prec-enum1> } | set-dscp-transmit1
{ <dscp-val1> | <dscp-enum1> } | set-cos-transmit1 <cos-val1> | set-discard-class-transmit1 <disc-class-val1>
| set-qos-transmit1 <qos-grp-val1> | set-mpls-exp-imposition-transmit1 <exp-value-imp1> |
set-mpls-exp-topmost-transmit1 <exp-value-top1> } ] [ violate { drop2 | set <vio-frm-field> <vio-to-field>
table2 pir-markdown-map | set-prec-transmit2 { <prec-val2> | <prec-enum2> } | set-dscp-transmit2 {
<dscp-val2> | <dscp-enum2> } | set-cos-transmit2 <cos-val2> | set-discard-class-transmit2 <disc-class-val2>
| set-qos-transmit2 <qos-grp-val2> | set-mpls-exp-imposition-transmit2 <exp-value-imp2> |
set-mpls-exp-topmost-transmit2 <exp-value-top2> } ] ] } | aggregate <policer-name> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
police	police
cir	(Optional) Specify committed information rate
bc	(Optional) Specify committed burst
percent	Specify rate as percentage of interface data-rate
<i>cir-perc</i>	Percentage
<i>pir-perc</i>	(Optional) Percentage
pir	(Optional) Specify peak information rate
be	(Optional) Specify extended burst (for 1R3C meter)
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
pps	(Optional) Packets per second
bps2	(Optional) Bits per second
kbps2	(Optional) Kilo Bits per second
mbps2	(Optional) Mega Bits per second

gbps2	(Optional) Giga Bits per second
pps2	(Optional) Packets per second
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
us	(Optional) Micro second(s)
ms	(Optional) Milli second(s)
packets	(Optional) Packets
bytes2	(Optional) Bytes
kbytes2	(Optional) Kilo Bytes
mbytes2	(Optional) Mega Bytes
ms2	(Optional) Milli seconds
us2	(Optional) Micro seconds
packets2	(Optional) Packets
conform	(Optional) Specify a conform action
exceed	(Optional) Specify a exceed action
violate	(Optional) Specify a violate action
transmit	(Optional) Transmit packet
transmit1	(Optional) Transmit packet
drop1	(Optional) Drop packet
drop2	(Optional) Drop packet
set-prec-transmit	(Optional) Set precedence and send it
set-prec-transmit1	(Optional) Set precedence and send it
set-prec-transmit2	(Optional) Set precedence and send it
<i>prec-val</i>	(Optional) Precedence value
<i>prec-val1</i>	(Optional) Precedence value
<i>prec-val2</i>	(Optional) Precedence value
<i>prec-enum</i>	(Optional)
<i>prec-enum1</i>	(Optional)

<i>prec-enum2</i>	(Optional)
set-dscp-transmit	(Optional) Set dscp and send it
set-dscp-transmit1	(Optional) Set dscp and send it
set-dscp-transmit2	(Optional) Set dscp and send it
<i>dscp-val</i>	(Optional) DSCP value
<i>dscp-val1</i>	(Optional) DSCP value
<i>dscp-val2</i>	(Optional) DSCP value
<i>dscp-enum</i>	(Optional)
<i>dscp-enum1</i>	(Optional)
<i>dscp-enum2</i>	(Optional)
set-cos-transmit	(Optional) Set cos and send it
set-cos-transmit1	(Optional) Set cos and send it
set-cos-transmit2	(Optional) Set cos and send it
<i>cos-val</i>	(Optional) new cos value
<i>cos-val1</i>	(Optional) new cos value
<i>cos-val2</i>	(Optional) new cos value
set-discard-class-transmit	(Optional) Set discard class and send it
set-discard-class-transmit1	(Optional) Set discard class and send it
set-discard-class-transmit2	(Optional) Set discard class and send it
<i>disc-class-val</i>	(Optional) new discard-class value
<i>disc-class-val1</i>	(Optional) new discard-class value
<i>disc-class-val2</i>	(Optional) new discard-class value
set-qos-transmit	(Optional) Set qos-group and send it
set-qos-transmit1	(Optional) Set qos-group and send it
set-qos-transmit2	(Optional) Set qos-group and send it
<i>qos-grp-val</i>	(Optional) QoS group value
<i>qos-grp-val1</i>	(Optional) QoS group value
<i>qos-grp-val2</i>	(Optional) QoS group value
set-mpls-exp-imposition-transmit	(Optional) set-mpls-exp-imposition-transmit

set-mpls-exp-imposition-transmit1	(Optional) set-mpls-exp-imposition-transmit
set-mpls-exp-imposition-transmit2	(Optional) set-mpls-exp-imposition-transmit
<i>exp-value-imp</i>	(Optional) MPLS imposition value
<i>exp-value-imp1</i>	(Optional) MPLS imposition value
<i>exp-value-imp2</i>	(Optional) MPLS imposition value
set-mpls-exp-topmost-transmit	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit1	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit2	(Optional) Set MPLS topmost label
<i>exp-value-top</i>	(Optional) MPLS topmost value
<i>exp-value-top1</i>	(Optional) MPLS topmost value
<i>exp-value-top2</i>	(Optional) MPLS topmost value
set	(Optional) Set a particular value using table or markdown map
<i>exc-frm-field</i>	(Optional)
<i>exc-to-field</i>	(Optional)
<i>vio-frm-field</i>	(Optional)
<i>vio-to-field</i>	(Optional)
table	(Optional) Set using the table-map
table2	(Optional) Set using the table-map
cir-markdown-map	(Optional) Markdown map table name for exceed action
pir-markdown-map	(Optional) Markdown map table name for violate action
aggregate	Choose aggregate policer for current class
<i>policer-name</i>	Enter aggregate-policer name

Command Mode

- /exec/configure/policy-map/class

police

```
[no] police { { [ cir ] { <cir-val> [ bps | kbps | mbps | gbps ] | percent <cir-perc> } [ [ bc ] { <committed-burst>
[ bytes | kbytes | mbytes | ms | us ] } ] [ pir { <pir-val> [ bps2 | kbps2 | mbps2 | gbps2 | pps2 ] | percent <pir-perc>
} [ [ be ] { <extended-burst> [ bytes2 | kbytes2 | mbytes2 | ms2 | us2 | packets2 ] } ] ] [ conform { transmit |
set-prec-transmit { <prec-val> | <prec-enum> } | set-dscp-transmit { <dscp-val> | <dscp-enum> } |
set-cos-transmit <cos-val> | set-discard-class-transmit <disc-class-val> | set-qos-transmit <qos-grp-val> |
set-mpls-exp-imposition-transmit <exp-value-imp> | set-mpls-exp-topmost-transmit <exp-value-top> } [
exceed { drop1 | set <exc-frm-field> <exc-to-field> table cir-markdown-map | set-prec-transmit1 { <prec-val1>
| <prec-enum1> } | set-dscp-transmit1 { <dscp-val1> | <dscp-enum1> } | set-cos-transmit1 <cos-val1> |
set-discard-class-transmit1 <disc-class-val1> | set-qos-transmit1 <qos-grp-val1> |
set-mpls-exp-imposition-transmit1 <exp-value-imp1> | set-mpls-exp-topmost-transmit1 <exp-value-top1> }
] [ violate { drop2 | set <vio-frm-field> <vio-to-field> table2 pir-markdown-map | set-prec-transmit2 {
<prec-val2> | <prec-enum2> } | set-dscp-transmit2 { <dscp-val2> | <dscp-enum2> } | set-cos-transmit2
<cos-val2> | set-discard-class-transmit2 <disc-class-val2> | set-qos-transmit2 <qos-grp-val2> |
set-mpls-exp-imposition-transmit2 <exp-value-imp2> | set-mpls-exp-topmost-transmit2 <exp-value-top2> }
] ] } | aggregate <policer-name> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
police	police
cir	(Optional) Specify committed information rate
bc	(Optional) Specify committed burst
percent	Specify rate as percentage of interface data-rate
<i>cir-perc</i>	Percentage
<i>pir-perc</i>	(Optional) Percentage
pir	(Optional) Specify peak information rate
be	(Optional) Specify extended burst (for 1R3C meter)
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
bps2	(Optional) Bits per second
kbps2	(Optional) Kilo Bits per second
mbps2	(Optional) Mega Bits per second
gbps2	(Optional) Giga Bits per second

pps2	(Optional) Packets per second
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
us	(Optional) Micro second(s)
ms	(Optional) Milli second(s)
bytes2	(Optional) Bytes
kbytes2	(Optional) Kilo Bytes
mbytes2	(Optional) Mega Bytes
ms2	(Optional) Milli seconds
us2	(Optional) Micro seconds
packets2	(Optional) Packets
conform	(Optional) Specify a conform action
exceed	(Optional) Specify a exceed action
violate	(Optional) Specify a violate action
transmit	(Optional) Transmit packet
drop1	(Optional) Drop packet
drop2	(Optional) Drop packet
set-prec-transmit	(Optional) Set precedence and send it
set-prec-transmit1	(Optional) Set precedence and send it
set-prec-transmit2	(Optional) Set precedence and send it
<i>prec-val</i>	(Optional) Precedence value
<i>prec-val1</i>	(Optional) Precedence value
<i>prec-val2</i>	(Optional) Precedence value
<i>prec-enum</i>	(Optional)
<i>prec-enum1</i>	(Optional)
<i>prec-enum2</i>	(Optional)
set-dscp-transmit	(Optional) Set dscp and send it
set-dscp-transmit1	(Optional) Set dscp and send it

set-dscp-transmit2	(Optional) Set dscp and send it
<i>dscp-val</i>	(Optional) DSCP value
<i>dscp-val1</i>	(Optional) DSCP value
<i>dscp-val2</i>	(Optional) DSCP value
<i>dscp-enum</i>	(Optional)
<i>dscp-enum1</i>	(Optional)
<i>dscp-enum2</i>	(Optional)
set-cos-transmit	(Optional) Set cos and send it
set-cos-transmit1	(Optional) Set cos and send it
set-cos-transmit2	(Optional) Set cos and send it
<i>cos-val</i>	(Optional) new cos value
<i>cos-val1</i>	(Optional) new cos value
<i>cos-val2</i>	(Optional) new cos value
set-discard-class-transmit	(Optional) Set discard class and send it
set-discard-class-transmit1	(Optional) Set discard class and send it
set-discard-class-transmit2	(Optional) Set discard class and send it
<i>disc-class-val</i>	(Optional) new discard-class value
<i>disc-class-val1</i>	(Optional) new discard-class value
<i>disc-class-val2</i>	(Optional) new discard-class value
set-qos-transmit	(Optional) Set qos-group and send it
set-qos-transmit1	(Optional) Set qos-group and send it
set-qos-transmit2	(Optional) Set qos-group and send it
<i>qos-grp-val</i>	(Optional) QoS group value
<i>qos-grp-val1</i>	(Optional) QoS group value
<i>qos-grp-val2</i>	(Optional) QoS group value
set-mpls-exp-imposition-transmit	(Optional) set-mpls-exp-imposition-transmit
set-mpls-exp-imposition-transmit1	(Optional) set-mpls-exp-imposition-transmit
set-mpls-exp-imposition-transmit2	(Optional) set-mpls-exp-imposition-transmit
<i>exp-value-imp</i>	(Optional) MPLS imposition value

<i>exp-value-imp1</i>	(Optional) MPLS imposition value
<i>exp-value-imp2</i>	(Optional) MPLS imposition value
set-mpls-exp-topmost-transmit	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit1	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit2	(Optional) Set MPLS topmost label
<i>exp-value-top</i>	(Optional) MPLS topmost value
<i>exp-value-top1</i>	(Optional) MPLS topmost value
<i>exp-value-top2</i>	(Optional) MPLS topmost value
set	(Optional) Set a particular value using table or markdown map
<i>exc-frm-field</i>	(Optional)
<i>exc-to-field</i>	(Optional)
<i>vio-frm-field</i>	(Optional)
<i>vio-to-field</i>	(Optional)
table	(Optional) Set using the table-map
table2	(Optional) Set using the table-map
cir-markdown-map	(Optional) Markdown map table name for exceed action
pir-markdown-map	(Optional) Markdown map table name for violate action
aggregate	Choose aggregate policer for current class
<i>policer-name</i>	Enter aggregate-policer name

Command Mode

- /exec/configure/policy-map/class

police police pps

```

police { [ cir ] { <cir-val> [ <opt_kbps_mbps_gbps_pps_cir> ] | percent <cir-perc> } } { [ [ [ bc ] <bc-val>
[ <opt_kbytes_mbytes_gbytes_bc> ] ] ] } { [ { pir { <pir> [ <opt_kbps_mbps_gbps_pps_pir> ] | percent1
<pir-perc> } } [ [ [ be ] <be-val> [ <opt_kbytes_mbytes_gbytes_be> ] ] ] ] } { [ { conform {
<opt_drop_transmit_conform> | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit { <set-dscp-val> |
<opt_set_dscp> } } | { set-prec-transmit { <set-prec-val> | <opt_set_prec> } } } } [ { exceed {
<opt_drop_transmit_exceed> | { set dscp1 dscp2 table cir-markdown-map } } } ] [ { violate {
<opt_drop_transmit_violate> | { set1 dscp3 dscp4 table1 pir-markdown-map } } } } ] ] } | police { pps {
<pps-val> } }

```

Syntax Description

police	Police
cir	(Optional) Specify committed information rate
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	Specify rate as percentage of interface data-rate
pir	(Optional) Specify peak information rate
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional) Specify rate as percentage of interface data-rate
be	(Optional) Specify extended burst
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
bc	(Optional) Specify committed burst
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
conform	(Optional) Specify a conform action
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional) Set conform action cos val
<i>set-cos-val</i>	(Optional) 802.1Q Class of Service value
set-dscp-transmit	(Optional) Set conform action dscp val
<i>set-dscp-val</i>	(Optional) DSCP value
<i>opt_set_dscp</i>	(Optional)
set-prec-transmit	(Optional) Set conform action precedence val
<i>set-prec-val</i>	(Optional) IP Precedence value
<i>opt_set_prec</i>	(Optional)

exceed	(Optional) Specify a exceed action
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional) Set exceed action to cir-markdown-map
dscp1	(Optional) Exceed from field
dscp2	(Optional) Exceed to field
table	(Optional) To specify table name
cir-markdown-map	(Optional) Well known markdown map
violate	(Optional) Specify a violate action
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional) Set violate action to pir-markdown-map
dscp3	(Optional) Violate from field
dscp4	(Optional) Violate to field
table1	(Optional) To specify table name
pir-markdown-map	(Optional) Well known markdown map
pps	Specify PPS rate limit

Command Mode

- /exec/configure/pmap/class

police police pps

```
police { [ cir ] { <cir-val> [ <opt_kbps_mbps_gbps_pps_cir> ] | percent <cir-perc> } } { [ [ bc ] <bc-val>
[ <opt_kbytes_mbytes_gbytes_bc> ] ] } { [ { pir { <pir> [ <opt_kbps_mbps_gbps_pps_pir> ] | percent1
<pir-perc> } } [ [ be ] <be-val> [ <opt_kbytes_mbytes_gbytes_be> ] ] ] } { [ { conform {
<opt_drop_transmit_conform> | { set-cos-transmit <set-cos-val> } | { set-dscp-transmit { <set-dscp-val> |
<opt_set_dscp> } } | { set-prec-transmit { <set-prec-val> | <opt_set_prec> } } } ] [ { exceed {
<opt_drop_transmit_exceed> | { set dscp1 dscp2 table cir-markdown-map } } } ] [ { violate {
<opt_drop_transmit_violate> | { set1 dscp3 dscp4 table1 pir-markdown-map } } } ] ] } | police { pps {
<pps-val> } }
```

Syntax Description

police	Police
cir	(Optional) Specify committed information rate
<i>opt_kbps_mbps_gbps_pps_cir</i>	(Optional) Units
percent	Specify rate as percentage of interface data-rate
pir	(Optional) Specify peak information rate
<i>opt_kbps_mbps_gbps_pps_pir</i>	(Optional) Units
percent1	(Optional) Specify rate as percentage of interface data-rate
be	(Optional) Specify extended burst
<i>opt_kbytes_mbytes_gbytes_be</i>	(Optional) Units
bc	(Optional) Specify committed burst
<i>opt_kbytes_mbytes_gbytes_bc</i>	(Optional) Units
conform	(Optional) Specify a conform action
<i>opt_drop_transmit_conform</i>	(Optional) Set the action
set-cos-transmit	(Optional) Set conform action cos val
<i>set-cos-val</i>	(Optional) 802.1Q Class of Service value
set-dscp-transmit	(Optional) Set conform action dscp val
<i>set-dscp-val</i>	(Optional) DSCP value
<i>opt_set_dscp</i>	(Optional)
set-prec-transmit	(Optional) Set conform action precedence val
<i>set-prec-val</i>	(Optional) IP Precedence value
<i>opt_set_prec</i>	(Optional)

exceed	(Optional) Specify a exceed action
<i>opt_drop_transmit_exceed</i>	(Optional) Set the action
set	(Optional) Set exceed action to cir-markdown-map
dscp1	(Optional) Exceed from field
dscp2	(Optional) Exceed to field
table	(Optional) To specify table name
cir-markdown-map	(Optional) Well known markdown map
violate	(Optional) Specify a violate action
<i>opt_drop_transmit_violate</i>	(Optional) Set the action
set1	(Optional) Set violate action to pir-markdown-map
dscp3	(Optional) Violate from field
dscp4	(Optional) Violate to field
table1	(Optional) To specify table name
pir-markdown-map	(Optional) Well known markdown map
pps	Specify PPS rate limit

Command Mode

- /exec/configure/pmap/class

policy-map

[no] policy-map [type qos] [match-first] <pmap-name-qos>

Syntax Description

no	(Optional) Negate a command or set its defaults
policy-map	Configure a policy map
type	(Optional) Specify the type of this policy-map
qos	(Optional) Qos policy
match-first	(Optional) Take the action for the first class that matches
<i>pmap-name-qos</i>	Policy-map name (alphanumeric)

Command Mode

- /exec/configure

policy-map type control-plane

[no] policy-map type control-plane <pmap-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
policy-map	Configure a policy map
type	Specify the type of this policy-map
control-plane	Control-Plane
<i>pmap-name</i>	Policy-map name (alphanumeric)

Command Mode

- /exec/configure

policy-map type network-qos

[no] policy-map type network-qos <pmap-name-nq>

Syntax Description

no	(Optional) Negate a command or set its defaults
policy-map	Configure a policy map
type	Specify the type of this policy-map
network-qos	Network QoS policy
<i>pmap-name-nq</i>	Policy-map name

Command Mode

- /exec/configure

policy-map type psp

```
[no] policy-map type psp { <pmap-name-plc> | { handle <ppf_id> } } [ table <table_type> ] [ client <clienttype> <clientID> ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
policy-map	Configure a policy map
type	Specify the type of this policy-map
psp	PSP policy
<i>pmap-name-plc</i>	Policy-map name (alphanumeric)
handle	Handle
<i>ppf_id</i>	PPF ID
table	(Optional) table
<i>table_type</i>	(Optional) Table Type
client	(Optional) set client type
<i>clienttype</i>	(Optional) cli/onep
<i>clientID</i>	(Optional) client appID

Command Mode

- /exec/configure

policy-map type queuing

[no] policy-map type queuing [match-first] <pmap-name-que>

Syntax Description

no	(Optional) Negate a command or set its defaults
policy-map	Configure a policy map
type	Specify the type of this policy-map
queuing	Queuing policy
match-first	(Optional) Take the action for the first class that matches
<i>pmap-name-que</i>	Policy-map name (alphanumeric)

Command Mode

- /exec/configure

policy

policy { { dynamic identity <device-id> } | { static sgt <sgt> [trusted] } } | no policy static | no policy dynamic

Syntax Description

policy	Enable and define policy to be applied
dynamic	apply to authorization server for policy
identity	specify identity of peer for authorization request
<i>device-id</i>	peer's device-id
static	configure static policy
sgt	SGT tag for pkts from this device
<i>sgt</i>	sgt value
trusted	(Optional) specify trust state of the link

Command Mode

- /exec/configure/cts-manual

policy

[no] policy <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
policy	NBM Flow policy
<i>name</i>	Policy name

Command Mode

- /exec/configure/nbm-flow

pop

pop [<name>]

Syntax Description

pop	pop mode from stack or restore from name
<i>name</i>	(Optional) name

Command Mode

- /global

port-channel limit

port-channel limit | no port-channel limit

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure the maximum number of supported vPCs
limit	limit to 244 vPCs

Command Mode

- /exec/configure/vpc-domain

port-channel load-balance

```
port-channel load-balance <bndl_hash> <bndl_sel> [ rotate <po-lb-rotate-range> ] [ concatenation ] [ module
<module> | fex all ] [ symmetric ] | no port-channel load-balance [ <bndl_hash> <bndl_sel> [ rotate
<po-lb-rotate-range> ] [ concatenation ] [ module <module> | fex all ] [ symmetric ] ]
```

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
<i>bndl_hash</i>	bundle hash
<i>bndl_sel</i>	bundle select
rotate	(Optional) offset the hash-input
<i>po-lb-rotate-range</i>	(Optional) offset the hash-input
concatenation	(Optional) enable/disable concatenation
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
fex	(Optional) FEX devices
all	(Optional) Permit all FEX to configure port-channel LB
symmetric	(Optional) symmetric load balancing

Command Mode

- /exec/configure

port-channel load-balance1 ethernet

port-channel load-balance1 ethernet <algorithm> [symmetric] | no port-channel load-balance1 ethernet [<algorithm> [symmetric]]

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance1	Configure port-channel load balance
ethernet	Ethernet port-channel
<i>algorithm</i>	Configure port-channel load balance
symmetric	(Optional) symmetric load balancing

Command Mode

- /exec/configure

port-channel load-balance2 resilient

port-channel load-balance2 resilient | no port-channel load-balance2 resilient

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance2	Configure port-channel load balance
resilient	Configure port-channel load balance resilient mode

Command Mode

- /exec/configure

port-channel load-balance ethernet

port-channel load-balance ethernet <algorithm> [module <module>] | no port-channel load-balance ethernet [<algorithm> [module <module>]]

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
ethernet	Ethernet port-channel
module	(Optional) Specify a module number
<i>module</i>	(Optional) Specify a module number
<i>algorithm</i>	Configure port-channel load balance

Command Mode

- /exec/configure

port-channel load-balance hash-modulo-f2

[no] port-channel load-balance hash-modulo-f2

Syntax Description

no	(Optional) Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
hash-modulo-f2	Enable/disable modulo hash for N7K-F248XP cards

Command Mode

- /exec/configure

port-channel load-balance hash enable

[no] port-channel load-balance hash enable

Syntax Description

no	(Optional) Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
hash	hash enhancement
enable	enable

Command Mode

- /exec/configure

port-channel load-balance internal

port-channel load-balance internal <algorithm> | no port-channel load-balance internal <algorithm>

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
internal	Configure port-channel load balance internal commands
<i>algorithm</i>	Configure port-channel load balance internal mode

Command Mode

- /exec/configure

port-channel load-balance internal dynamic-pin

port-channel load-balance internal dynamic-pin | no port-channel load-balance internal dynamic-pin

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
internal	Configure port-channel load balance internal commands
dynamic-pin	Configure port-channel load balance internal commands

Command Mode

- /exec/configure

port-channel load-balance internal rtag7

port-channel load-balance internal rtag7 <algorithm> | no port-channel load-balance internal rtag7 <algorithm>

Syntax Description

no	Negate a command or set its defaults
port-channel	Configure port channel parameters
load-balance	Configure port-channel load balance
internal	Configure port-channel load balance internal commands
rtag7	Configure port-channel load balance internal commands
<i>algorithm</i>	Configure port-channel load balance internal mode

Command Mode

- /exec/configure

port-group

{ port-group <name> } | { no port-group <name> }

Syntax Description

no	Negate a command or set its defaults
port-group	catena port group
<i>name</i>	catena port group name

Command Mode

- /exec/configure/catena

port-group

{ port-group <name> } | { no port-group <name> }

Syntax Description

no	Negate a command or set its defaults
port-group	smart channel port group
<i>name</i>	smart channel port group name

Command Mode

- /exec/configure/smartc

port-profile

```
[no] port-profile [ type <typeval> ] { <profilename> | <s0> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
port-profile	Configure a port-profile
<i>profilename</i>	Enter the name of the profile
<i>s0</i>	Enter the name of the profile
type	(Optional) configure type of the profile
<i>typeval</i>	(Optional)

Command Mode

- /exec/configure

port-profile dump

[no] port-profile dump

Syntax Description

no	(Optional) Negate a command or set its defaults
port-profile	Dump port-profile
dump	Dump all additional information from database

Command Mode

- /exec

port-profile no-redirectation

[no] port-profile no-redirectation

Syntax Description

no	(Optional) Negate a command or set its defaults
port-profile	Show port-profile information
no-redirectation	Disable port-profile redirectation

Command Mode

- /exec

port-security stop learning

[no] port-security stop learning

Syntax Description

no	(Optional) Negate a command or set its defaults
port-security	Port security related command
stop	stop
learning	learning

Command Mode

- /exec

port

```
{ port <sport> <dport> }
```

Syntax Description

port	L4 port info
<i>sport</i>	Source port
<i>dport</i>	Destination port

Command Mode

- /exec/configure/configngoamccpayload

port

{ port <tportnum> } | { no port [<tportnum-ignore>] }

Syntax Description

no	Negate a command or set its defaults
port	Port number
<i>tportnum</i>	Port number, default: 15002
<i>tportnum-ignore</i>	(Optional) Port number, default: 15002

Command Mode

- /exe/configure/onep/tls

port control

[no] port control <port-control-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
port	ITD port
control	control
<i>port-control-name</i>	Port control name

Command Mode

- /exec/configure/itd-inout

port control

[no] port control <port-control-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
port	Configure PLB port control
control	control
<i>port-control-name</i>	Port control name

Command Mode

- /exec/configure/plb-inout

port destination

{ port { destination | source } <port> } | { no port { destination | source } }

Syntax Description

no	Negate a command or set its defaults
port	specify flow port address
source	specify flow source port address
destination	specify flow destination port address
<i>port</i>	port number

Command Mode

- /exec/configure/configngoamprofileflow

power efficient-ethernet auto

[no] power efficient-ethernet auto

Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure EEE for the port
efficient-ethernet	Configure Energy Efficient Ethernet (EEE)
auto	Auto negotiate EEE

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

power efficient-ethernet sleep threshold aggressive

[no] power efficient-ethernet sleep threshold aggressive

Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure EEE for the port
efficient-ethernet	Configure Energy Efficient Ethernet (EEE)
sleep	EEE LPI sleep configuration
threshold	EEE LPI sleep threshold
aggressive	Enable/ Disable EEE LPI aggressive sleep mode

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

power inline

```
{ power inline { <port-mode-never> | <port-mode> [ max <wattage> ] } } | { no power inline {
<port-mode-never> | <port-mode> } }
```

Syntax Description

no	Negate a command or set its defaults
power	Power over Ethernet
<i>port-mode-never</i>	configure POE port mode
<i>port-mode</i>	configure POE port mode
max	(Optional) Configure the max power per interface
<i>wattage</i>	(Optional) milli-watts

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

power inline police action

{ power inline police action <police-action> } | { no power inline police action }

Syntax Description

no	Negate a command or set its defaults
power	Power over Ethernet
police	Configure POE port police parameters
action	Configure action in port when power allocation exceeds
<i>police-action</i>	configure POE port action

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

power inline port priority

{ power inline port priority <port-priority> } | { no power inline port priority <port-priority> }

Syntax Description

no	Negate a command or set its defaults
power	Power over Ethernet
port	Configure POE port parameters
priority	Configure the priority for the port
<i>port-priority</i>	configure POE port priority

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

power redundancy-mode combined

[no] power redundancy-mode combined

Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
combined	Configure power supply redundancy mode as combined

Command Mode

- /exec/configure

power redundancy-mode combined force

[no] power redundancy-mode combined force

Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
combined	Configure power supply redundancy mode as combined
force	Force combined mode without prompting

Command Mode

- /exec/configure

power redundancy-mode insrc-redundant

[no] power redundancy-mode insrc-redundant

Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
insrc-redundant	Configure power supply redundancy mode as grid/AC input source redundant

Command Mode

- /exec/configure

power redundancy-mode ps-redundant

[no] power redundancy-mode ps-redundant

Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure power supply
redundancy-mode	Configure power supply redundancy mode
ps-redundant	Configure power supply redundancy mode as PS redundant

Command Mode

- /exec/configure

power reserve

[no] power reserve <percentage>

Syntax Description

no	(Optional) Negate a command or set its defaults
power	Configure power supply
reserve	Override default power reservation
<i>percentage</i>	please enter a percentage

Command Mode

- /exec/configure

poweroff

[no] poweroff { module <module> | <s0> <santa-cruz-range> }

Syntax Description

no	(Optional) Negate a command or set its defaults
poweroff	Power off a module in the switch
module	enter a module number
<i>module</i>	please enter the module number
<i>s0</i>	Power off a specific xbar
<i>santa-cruz-range</i>	please enter the xbar number

Command Mode

- /exec/configure

pps

pps <pps> <burst> | no pps [<pps>] [<burst>]

Syntax Description

no	Negate a command or set its defaults
pps	OSPF packets per second
<i>pps</i>	Packets per second value
<i>burst</i>	Burst value

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

pps

pps <pps> <burst> | no pps [<pps>] [<burst>]

Syntax Description

no	Negate a command or set its defaults
pps	OSPFv3 packets per second
<i>pps</i>	Packets per second value
<i>burst</i>	Burst value

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

precision milliseconds

{ { no | default } precision | precision { milliseconds | microseconds } }

Syntax Description

no	
<i>precision</i>	milliseconds
default	Set a command to its defaults
precision	Set precision of measurement
microseconds	Precision microseconds
milliseconds	Precision milliseconds

Command Mode

- /exec/configure/ip-sla/jitter

preempt

[no] preempt [delay { minimum <min-delay> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
preempt	Overthrow lower priority designated routers
delay	(Optional) Wait before preempting
minimum	(Optional) Delay atleast this long
<i>min-delay</i>	(Optional) Number of seconds for minimum delay

Command Mode

- /exec/configure/if-eth-any/glbp

preempt

[no] preempt | preempt

Syntax Description

no	Negate a command or set its defaults
preempt	Enable preemption of lower priority Master

Command Mode

- /exec/configure/if-eth-any/vrrpv3

preempt

[no] preempt

Syntax Description

no	(Optional) Negate a command or set its defaults
preempt	Enable preemption of lower priority master

Command Mode

- /exec/configure/if-eth-any/vrrp

preempt delay minimum

[no] preempt delay | preempt delay minimum <secs>

Syntax Description

no	Negate a command or set its defaults
preempt	Enable preemption of lower priority Master
delay	Wait before preempting
minimum	Delay at least this long
<i>secs</i>	Seconds to delay

Command Mode

- /exec/configure/if-eth-any/vrrpv3

preempt delay minimum reload sync preempt delay reload minimum sync preempt delay sync minimum reload preempt delay reload sync minimum preempt
 delay sync reload minimum preempt delay minimum sync reload preempt delay reload sync preempt delay sync reload preempt delay minimum sync preempt
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preempt delay minimum reload sync preempt delay reload minimum sync preempt delay sync minimum reload preempt delay reload sync minimum preempt delay sync reload minimum preempt delay minimum sync reload preempt delay reload sync preempt delay sync reload preempt delay minimum sync preempt delay sync minimum preempt delay minimum reload preempt delay reload minimum preempt delay minimum preempt delay reload preempt delay sync preempt

preempt delay minimum <min-delay> reload <rel-delay> sync <sync-delay> | preempt delay reload <rel-delay>
 minimum <min-delay> sync <sync-delay> | preempt delay sync <sync-delay> minimum <min-delay> reload
 <rel-delay> | preempt delay reload <rel-delay> sync <sync-delay> minimum <min-delay> | preempt delay
 sync <sync-delay> reload <rel-delay> minimum <min-delay> | preempt delay minimum <min-delay> sync
 <sync-delay> reload <rel-delay> | preempt delay reload <rel-delay> sync <sync-delay> | preempt delay sync
 <sync-delay> reload <rel-delay> | preempt delay minimum <min-delay> sync <sync-delay> | preempt delay
 sync <sync-delay> minimum <min-delay> | preempt delay minimum <min-delay> reload <rel-delay> | preempt
 delay reload <rel-delay> minimum <min-delay> | preempt delay minimum <min-delay> | preempt delay
 reload <rel-delay> | preempt delay sync <sync-delay> | preempt | no preempt | no preempt delay [{ minimum
 [<min-delay>] [[reload [<rel-delay>]] [sync [<sync-delay>]]] [sync [<sync-delay>]] [reload [<rel-delay>]]] | reload [<rel-delay>] [[minimum [<min-delay>]] [sync [<sync-delay>]]] [sync [<sync-delay>]] [minimum [<min-delay>]]] | sync [<sync-delay>] [[reload [<rel-delay>]] [minimum [<min-delay>]]] [[minimum [<min-delay>]] [reload [<rel-delay>]]]] }

Syntax Description

no	Negate a command or set its defaults
preempt	Overthrow lower priority Active routers
delay	Wait before preempting
minimum	Delay at least this long
<i>min-delay</i>	Number of seconds for minimum delay
reload	Delay after reload
<i>rel-delay</i>	Number of seconds for reload delay
sync	Wait for IP redundancy clients
<i>sync-delay</i>	Number of seconds for sync delay
<i>minimum</i>	reload

preempt delay minimum reload sync preempt delay reload minimum sync preempt delay sync minimum reload preempt delay reload sync minimum preempt
delay sync reload minimum preempt delay minimum sync reload preempt delay reload sync preempt delay sync reload preempt delay minimum sync preempt
delay sync minimum preempt delay minimum reload preempt delay reload minimum preempt delay minimum preempt delay reload preempt delay sync preempt

Command Mode

- /exec/configure/if-eth-any/hsrp_ipv4 /exec/configure/if-eth-any/hsrp_ipv6

preference max

[no] preference max <pref-val>

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>pref-val</i>	maximum value

Command Mode

- /exec/configure/config-dhcp-guard

preference min

[no] preference min <pref-val>

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>pref-val</i>	maximum value

Command Mode

- /exec/configure/config-dhcp-guard

prefix out

[no | default] { prefix-list <prfxlist-name> } { out | in }

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
prefix-list	Apply prefix-list
<i>prfxlist-name</i>	Name of prefix-list
out	Apply policy to outgoing routes
in	Apply policy to incoming routes

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-link-state
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

priority-flow-control auto-restore multiplier

[no] priority-flow-control auto-restore multiplier { <val> }

Syntax Description

no	(Optional) Negate the command
priority-flow-control	pfc related commands
auto-restore	auto restore
multiplier	Auto restore multiplier
val	Auto multiplier value

Command Mode

- /exec/configure

priority-flow-control fixed-restore multiplier

[no] priority-flow-control fixed-restore multiplier { <val> }

Syntax Description

no	(Optional) Negate the command
priority-flow-control	pfc related commands
fixed-restore	fixed restore
multiplier	Fixed restore multiplier
<i>val</i>	Fixed multiplier value

Command Mode

- /exec/configure

priority-flow-control mode

[no] priority-flow-control mode { auto | on | off } [force]

Syntax Description

no	(Optional) Negate a command or set its defaults
priority-flow-control	Enable/Disable PFC
mode	PFC Mode
auto	Set Auto Mode
on	Force PFC to On
off	Force PFC to Off
force	(Optional) Force apply PFC config

Command Mode

- /exec/configure/if-switching /exec/configure/if-routing /exec/configure/if-port-channel /exec/configure/if-port-channel-sub

priority-flow-control override-interface mode off

[no] priority-flow-control override-interface mode off

Syntax Description

no	(Optional) Negate a command or set its defaults
priority-flow-control	Global priority-flow-control settings
override-interface	Overrides interface priority-flow-control mode
mode	Priority-flow-control mode
off	Off

Command Mode

- /exec/configure

priority-flow-control recover interface

priority-flow-control recover interface <if_list> [qos-group <qgrp-num>] [module <module_idx>] [instance <inst>]

Syntax Description

priority-flow-control	Change PFC settings
recover	Recover PFC queue from stuck state
interface	Interface
<i>if_list</i>	List of interfaces
qos-group	(Optional) No-drop class to be recovered
<i>qgrp-num</i>	(Optional) qos-group number of the no-drop class
module	(Optional) Slot/module
<i>module_idx</i>	(Optional) Slot/module number
instance	(Optional) ASIC Instance Number
<i>inst</i>	(Optional) ASIC Instance Number in Decimal

Command Mode

- /exec

priority-flow-control tah-recover interface

priority-flow-control tah-recover interface <if_list> [qos-group <qos>] [module <module>]

Syntax Description

priority-flow-control	Change PFC settings
tah-recover	Recover PFC queue from stuck state
interface	Interface
<i>if_list</i>	List of interfaces
qos-group	(Optional) No-drop class to be recovered
<i>qos</i>	(Optional) qos-group number of the no-drop class
module	(Optional) Slot/module
<i>module</i>	(Optional) Slot/module number

Command Mode

- /exec

priority-flow-control watch-dog-interval on

[no] priority-flow-control watch-dog-interval { on | off }

Syntax Description

no	(Optional) Negate a command or set its defaults
priority-flow-control	Enable/Disable PFC
watch-dog-interval	Watch dog interval
on	PFC watch-dog interval to On
off	PFC watch-dog interval to Off

Command Mode

- /exec/configure/if-switching /exec/configure/if-routing /exec/configure/if-port-channel /exec/configure/if-port-channel-sub

priority-flow-control watch-dog-interval on

[no] priority-flow-control watch-dog-interval { on | off }

Syntax Description

no	(Optional) Negate the command
priority-flow-control	Enable/Disable PFC
watch-dog-interval	Watch dog interval
on	Enable PFC watch-dog interval globally
off	Disable PFC watch-dog interval globally

Command Mode

- /exec/configure

priority-flow-control watch-dog internal-interface-multiplier

[no] priority-flow-control watch-dog internal-interface-multiplier { <val> }

Syntax Description

no	(Optional) Negate the command
priority-flow-control	pfm related commands
watch-dog	watch dog interval
internal-interface-multiplier	Internal Interface Multiplier
<i>val</i>	Multiplier value for internal interfaces, 0 to disable the feature on internal interfaces

Command Mode

- /exec/configure

priority-flow-control watch-dog interval

[no] priority-flow-control watch-dog interval <interval-val>

Syntax Description

no	(Optional) Negate the command
priority-flow-control	pfc related commands
watch-dog	watch dog interval
interval	Poll interval
<i>interval-val</i>	Watch dog interval value in ms

Command Mode

- /exec/configure

priority-flow-control watch-dog shutdown-multiplier

[no] priority-flow-control watch-dog shutdown-multiplier { <val> }

Syntax Description

no	(Optional) Negate the command
priority-flow-control	pfm related commands
watch-dog	watch dog interval
shutdown-multiplier	Shutdown multiplier
<i>val</i>	Shutdown multiplier

Command Mode

- /exec/configure

priority

[no] priority | priority <setup_prio> [<hold_prio>]

Syntax Description

no	Negate a command or set its defaults
priority	Specify LSP priority
<i>setup_prio</i>	setup priority
<i>hold_prio</i>	(Optional) hold priority

Command Mode

- /exec/configure/te/lsp-attr

priority2

[no] priority2 [level2 <value>]

Syntax Description

no	(Optional) Negate a command or set its defaults
priority2	Configure traffic class priority
level2	(Optional) Specify level of priority
<i>value</i>	(Optional) Strict-priority level (1=hi 2=med 3=lo)

Command Mode

- /exec/configure/policy-map/type/queuing/class

priority

[no] priority | priority <setup_pri> [<hold_pri>]

Syntax Description

no	Negate a command or set its defaults
priority	tunnel priority
<i>setup_pri</i>	setup priority
<i>hold_pri</i>	(Optional) hold priority

Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

priority

{ priority <pri-value> } | { no priority }

Syntax Description

no	Negate a command or set its defaults
priority	Priority level
<i>pri-value</i>	Priority Value

Command Mode

- /exec/configure/if-eth-any/glbp

priority

priority <priority> [forwarding-threshold lower <lower-value> upper <upper-value>] | no priority [forwarding-threshold]

Syntax Description

no	Negate a command or set its defaults
priority	Priority level
<i>priority</i>	Priority value
forwarding-threshold	(Optional) Set forwarding threshold
lower	(Optional) Set lower threshold value
<i>lower-value</i>	(Optional) Lower threshold value
upper	(Optional) Set upper threshold value
<i>upper-value</i>	(Optional) Upper threshold value

Command Mode

- /exec/configure/if-eth-any/hsrp_ipv4 /exec/configure/if-eth-any/hsrp_ipv6

priority

priority <value> | no priority

Syntax Description

no	Negate a command or set its defaults
priority	Configure Bundle priority
<i>value</i>	Priority value

Command Mode

- /exec/configure/anycast

priority

[no] priority [level <value>]

Syntax Description

no	(Optional) Negate a command or set its defaults
priority	Configure traffic class priority
level	(Optional) Specify level of priority
<i>value</i>	(Optional) Value of level, lower the number higher the priority

Command Mode

- /exec/configure/policy-map/type/queuing/class

priority

[no] priority | priority <val>

Syntax Description

no	Negate a command or set its defaults
priority	Priority of this VRRP group
<i>val</i>	Priority level

Command Mode

- /exec/configure/if-eth-any/vrrpv3

priority

```
{ priority <priority_value> [ forwarding-threshold lower <lower-value> upper <upper-value> ] | no priority
[ forwarding-threshold ] }
```

Syntax Description

no	Negate a command or set its defaults
priority	Configure the vr priority
<i>priority_value</i>	Configure the vr priority
forwarding-threshold	(Optional) Set forwarding threshold
lower	(Optional) Set lower threshold value
<i>lower-value</i>	(Optional) Lower threshold value
upper	(Optional) Set upper threshold value
<i>upper-value</i>	(Optional) Upper threshold value

Command Mode

- /exec/configure/if-eth-any/vrrp

private-vlan

[no] private-vlan <pvlan-type>

Syntax Description

no	(Optional) Negate a command or set its defaults
private-vlan	Configure a private VLAN
<i>pvlan-type</i>	PVLAN Type

Command Mode

- /exec/configure/vlan

private-vlan association

```
{ private-vlan association [ { add | remove } ] <secondary_vlans> } | { no private-vlan association [ <secondary_vlans> ] }
```

Syntax Description

private-vlan	Configure a private VLAN
association	Add association between private VLANs
add	(Optional) Add a VLAN to private VLAN list
remove	(Optional) Remove a VLAN from private VLAN list
no	Negate a command or set its defaults
<i>secondary_vlans</i>	VLAN IDs of the private VLANs to be configured

Command Mode

- /exec/configure/vlan

private-vlan mapping

```
{ private-vlan mapping [ { add | remove } ] <secondary_vlans> } | { no private-vlan mapping [ <secondary_vlans> ] }
```

Syntax Description

private-vlan	Configure a private VLAN
mapping	Set the private VLAN interface mapping
add	(Optional) Add a VLAN to private VLAN list
remove	(Optional) Remove a VLAN from private VLAN list
no	Negate a command or set its defaults
<i>secondary_vlans</i>	Secondary VLAN IDs of the private VLAN interface mapping

Command Mode

- /exec/configure/if-vlan

private-vlan release resource

private-vlan release resource { [vlan <vlan-id>] | global }

Syntax Description

private-vlan	Show information about private VLAN
release	release
resource	resource
vlan	(Optional) VLAN status
global	global rid
<i>vlan-id</i>	(Optional) VLAN IDs of the private VLANs to be configured

Command Mode

- /exec

private-vlan synchronize

private-vlan synchronize

Syntax Description

private-vlan	Set private-vlan synchronization
synchronize	Synchronize vlans

Command Mode

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

probe-interval

probe-interval <probeinterval-val> | no probe-interval

Syntax Description

no	Negate a command or set its defaults
probe-interval	OpenFlow controller probe interval timer (default is 180 seconds)
<i>probeinterval-val</i>	probe interval timer value in secs

Command Mode

- /exec/configure/openflow/switch

probe-interval

probe-interval <probeinterval-val> | no probe-interval

Syntax Description

no	Negate a command or set its defaults
probe-interval	OpenFlow controller probe interval timer (default is 180 seconds)
<i>probeinterval-val</i>	probe interval timer value in secs

Command Mode

- /exec/configure/openflow/switch/sub-switch

probe

[no] probe <probe-id> [control <status>] [host <host-name>] [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>]

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	Catena device-group node probe
<i>probe-id</i>	Probe mode
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
host	(Optional) Host name/Target address
<i>host-name</i>	(Optional) DNS Target IP Address or Hostname
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/catena-device-grp

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-standby

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

Command Mode

- /exec/configure/itd-device-group

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	Configure probe for node
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Configure probe frequency for a node
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared up
<i>up-count</i>	(Optional) Count
ip	(Optional) Configure ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/plb-dg-node

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	Configure probe for node
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Configure probe frequency for a node
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared up
<i>up-count</i>	(Optional) Count
ip	(Optional) Configure ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/plb-dg-node-standby

probe

[no] probe <probe-id-icmp> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	Configure probe for node
<i>probe-id-icmp</i>	Service mode
frequency	(Optional) Configure probe frequency for a node
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared up
<i>up-count</i>	(Optional) Count

Command Mode

- /exec/configure/plb-device-group

probe get

[no] probe <probe-id-http> get [<url-name> | cache | frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-http</i>	Service mode
get	Host name/Target address
<i>url-name</i>	(Optional) Specify only the user input text/filename. http://<node-ip>/<user input>
cache	(Optional) Use cache
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe get

[no] probe <probe-id-http> get [<url-name> | cache | frequency <freq-num> | timeout <timeout> |
 retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-http</i>	Service mode
get	Host name/Target address
<i>url-name</i>	(Optional) Specify only the user input text/filename. http://<node-ip>/<user input>
cache	(Optional) Use cache
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-standby

probe get

[no] probe <probe-id-http> get [<url-name> | cache | frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-http</i>	Service mode
get	Host name/Target address
<i>url-name</i>	(Optional) Specify only the user input text/filename. http://<node-ip>/<user input>
cache	(Optional) Use cache
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

Command Mode

- /exec/configure/itd-device-group

probe host

[no] probe <probe-id-dns> host <host-name> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-dns</i>	Service mode
host	Host name/Target address
<i>host-name</i>	DNS Target IP Address or Hostname
frequency	(Optional) Frequency
<i>freq-num</i>	(Optional) Frequency
timeout	(Optional) Timeout
<i>timeout</i>	(Optional) Timeout
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe host

[no] probe <probe-id-dns> host <host-name> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-dns</i>	Service mode
host	Host name/Target address
<i>host-name</i>	DNS Target IP Address or Hostname
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-standby

probe host

[no] probe <probe-id-dns> host <host-name> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id-dns</i>	Service mode
host	Host name/Target address
<i>host-name</i>	DNS Target IP Address or Hostname
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

Command Mode

- /exec/configure/itd-device-group

probe host

[no] probe <probe-id-dns> host <host-name> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	PLB probe
<i>probe-id-dns</i>	Service mode
host	Host name/Target address
<i>host-name</i>	DNS Target IP Address or Hostname
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/plb-dg-node

probe host

[no] probe <probe-id-dns> host <host-name> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	Configure probe for node
<i>probe-id-dns</i>	Service mode
host	Host name/Target address
<i>host-name</i>	DNS Target IP Address or Hostname
frequency	(Optional) Configure probe frequency for a node
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared down
<i>up-count</i>	(Optional) Count
ip	(Optional) Configure ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/plb-dg-node-standby

probe host

[no] probe <probe-id-dns> host <host-name> [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	PLB probe
<i>probe-id-dns</i>	Service mode
host	Host name/Target address
<i>host-name</i>	DNS Target IP Address or Hostname
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

Command Mode

- /exec/configure/plb-device-group

probe port

[no] probe <probe-id> port <port-num> [control <status>] [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node

probe port

[no] probe <probe-id> port <port-num> [control <status>] [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count
ip	(Optional) ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/itd-dg-node-standby

probe port

[no] probe <probe-id> port <port-num> [control <status>] [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	ITD probe
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Frequency in seconds
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Timeout in seconds
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Retry-count when node goes down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Retry-count when node comes back up
<i>up-count</i>	(Optional) Count

Command Mode

- /exec/configure/itd-device-group

probe port

[no] probe <probe-id> port <port-num> [control <status>] [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	Configure probe for PLB device group node
<i>probe-id</i>	Service mode
port	TCP/UDP Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Configure probe frequency for a node
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared up
<i>up-count</i>	(Optional) Count
ip	(Optional) Configure ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/plb-dg-node

probe port

[no] probe <probe-id> port <port-num> [control <status>] [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count> | ip <ip-addr>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	Configure probe for node
<i>probe-id</i>	Service mode
port	TCP/UDP Port
<i>port-num</i>	Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Configure probe frequency for a node
<i>freq-num</i>	(Optional) Frequency in seconds
timeout	(Optional) Configure probe timeout for a node
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared up
<i>up-count</i>	(Optional) Count
ip	(Optional) Configure ip address for probe
<i>ip-addr</i>	(Optional) IP4 prefix in format i.i.i.i

Command Mode

- /exec/configure/plb-dg-node-standby

probe port

[no] probe <probe-id> port <port-num> [control <status>] [frequency <freq-num> | timeout <timeout> | retry-down-count <count> | retry-up-count <up-count>] +

Syntax Description

no	(Optional) Negate a command or set its defaults
probe	Configure probe for node
<i>probe-id</i>	Service mode
port	Port
<i>port-num</i>	TCP/UDP Port number
control	(Optional) control protocol
<i>status</i>	(Optional) control protocol status
frequency	(Optional) Configure probe frequency for a node
<i>freq-num</i>	(Optional) Frequency in seconds
time-out	(Optional) Configure probe timeout for a node
<i>timeout</i>	(Optional) Timeout in seconds
retry-down-count	(Optional) Configure retry-count before node declared down
<i>count</i>	(Optional) Count
retry-up-count	(Optional) Configure retry-count after node declared up
<i>up-count</i>	(Optional) Count

Command Mode

- /exec/configure/plb-device-group

profile

{ profile <pid> | no profile }

Syntax Description

no	Negate a command or set its defaults
profile	NGOAM profile to use
<i>pid</i>	NGOAM profile id

Command Mode

- /exec/configure/configngoamconnectcheck

promiscuous-mode off

promiscuous-mode { off | on } | no promiscuous-mode [{ off | on }]

Syntax Description

no	Negate a command or set its defaults
promiscuous-mode	Configure promiscuous mode for the port
off	Disable promiscuous mode
on	Enable promiscuous mode

Command Mode

- /exec/configure/if-port-channel /exec/configure/if-ethernet-all /exec/configure/if-eth-base

propagate-sgt

[no] propagate-sgt

Syntax Description

propagate-sgt	Enable SGT propagation from this port (the default use the no form to disable)
---------------	--

Command Mode

- /exec/configure/cts-dot1x /exec/configure/cts-manual

protection

[no] protection | protection [fast-reroute [bw-protect]]

Syntax Description

no	Negate a command or set its defaults
protection	Enable failure protection
fast-reroute	(Optional) Enable fast-reroute failure protection
bw-protect	(Optional) Enable BW protection

Command Mode

- /exec/configure/te/lsp-attr

proto

{ proto <proto-id> }

Syntax Description

proto	Protocol
<i>proto-id</i>	IANA Protocol id

Command Mode

- /exec/configure/configngoamccpayload

protocol-version

protocol-version { <10> | <13> | negotiate } | no protocol-version

Syntax Description

no	Negate a command or set its defaults
protocol-version	Set OpenFlow protocol version
10	Use only OF 1.0 protocol to connect to controller
13	Use only OF 1.3 protocol to connect to controller
negotiate	Negotiate protocol with controller

Command Mode

- /exec/configure/openflow/switch

protocol-version

protocol-version { <10> | <13> | negotiate } | no protocol-version

Syntax Description

no	Negate a command or set its defaults
protocol-version	Set OpenFlow protocol version
10	Use only OF 1.0 protocol to connect to controller
13	Use only OF 1.3 protocol to connect to controller
negotiate	Negotiate protocol with controller

Command Mode

- /exec/configure/openflow/switch/sub-switch

protocol

{ protocol <num> } | { no protocol }

Syntax Description

no	Negate a command or set its defaults
protocol	specify flow protocol number
<i>num</i>	flow protocol number

Command Mode

- /exec/configure/configngoamprofileflow

protocol

[no] protocol <proto> [prefix-list <pflist-name>]

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>proto</i>	
<i>pflist-name</i>	(Optional) Name of the prefix-list to be matched

Command Mode

- /exec/configure/config-snoop-policy

protocol shutdown

[no] protocol shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
protocol	OSPF protocol
shutdown	Shutdown the OSPF protocol instance

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

protocol shutdown

[no] protocol shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
protocol	OSPF protocol
shutdown	shutdown the OSPF protocol instance

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

ptp

[no] ptp

Syntax Description

no	(Optional) Negate a command or set its defaults
ptp	Precision Time Protocol (IEEE 1588) Subsystem

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp announce interval

```
[no] ptp announce interval { <log-seconds> | smpte-2059-2 <smpte-log-seconds> | aes67 <aes-log-seconds>
}
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
announce	announce
interval	interval
<i>log-seconds</i>	log seconds
smpte-2059-2	SMPTE-2059-2
<i>smpte-log-seconds</i>	SMPTE-2059-2 log seconds
aes67	AES67-2015
<i>aes-log-seconds</i>	AES67-2015 log seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp announce timeout

[no] ptp announce timeout { <val> | smpte-2059-2 <smpte-val> | aes67 <aes-val> }

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
announce	announce
timeout	timeout
smpte-2059-2	SMPTE-2059-2
aes67	AES67-2015
<i>val</i>	val
<i>smpte-val</i>	SMPTE-2059-2 val
<i>aes-val</i>	AES67-2015 val

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp clock-identity

ptp clock-identity <mac_address> | no ptp clock-identity

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
clock-identity	clock-identity
<i>mac_address</i>	Mac Address

Command Mode

- /exec/configure

ptp clock-sync auto

[no] ptp clock-sync auto

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
clock-sync	clock-sync
auto	auto adjust frequency

Command Mode

- /exec/configure

ptp cost

[no] ptp cost <cost>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
cost	Cost associated with the interface
<i>cost</i>	Cost

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp delay-request minimum interval

[no] ptp delay-request minimum interval { <log-seconds> | smpte-2059-2 <smpte-log-seconds> | aes67 <aes-log-seconds> }

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
delay-request	delay-request
minimum	minimum
interval	interval
smpte-2059-2	SMPTE-2059-2
aes67	AES67-2015
<i>log-seconds</i>	log seconds
<i>smpte-log-seconds</i>	SMPTE-2059-2 log seconds
<i>aes-log-seconds</i>	AES67-2015 log seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp domain

[no] ptp domain <domain-val>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
domain	ptp domain to be associated with interface
<i>domain-val</i>	Enter configured domain value, default 0

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp domain

[no] ptp domain <domain-val>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
domain	ptp clock domain
<i>domain-val</i>	Enter domain value

Command Mode

- /exec/configure

ptp domain clock-accuracy-threshold

[no] ptp domain <domain-val> clock-accuracy-threshold <threshold-value>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
domain	ptp clock domain
<i>domain-val</i>	Domain value, default is 0
clock-accuracy-threshold	Domain clock accuracy threshold
<i>threshold-value</i>	Domain clock accuracy threshold value, default is 254

Command Mode

- /exec/configure

ptp domain clock-class-threshold

[no] ptp domain <domain-val> clock-class-threshold <threshold-value>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
domain	ptp clock domain
<i>domain-val</i>	Domain value, default is 0
clock-class-threshold	Domain clock class threshold
<i>threshold-value</i>	Domain clock class threshold value, default is 248

Command Mode

- /exec/configure

ptp domain priority

[no] ptp domain <domain-val> priority <priority-val>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
domain	ptp clock domain
<i>domain-val</i>	Domain value, default is 0
priority	Domain priority
<i>priority-val</i>	Domain priority value, default is 255

Command Mode

- /exec/configure

ptp grandmaster-capable

ptp grandmaster-capable | no ptp grandmaster-capable [convergence-time <val>]

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
grandmaster-capable	Grandmaster capability
convergence-time	(Optional) Convergence time in seconds
<i>val</i>	(Optional) convergence

Command Mode

- /exec/configure

ptp multi-domain

ptp multi-domain | no ptp multi-domain

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
multi-domain	enable ptp multi domain

Command Mode

- /exec/configure

ptp multi-domain transition-attributes priority1

[no] ptp multi-domain transition-attributes priority1 <priority1-value>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
multi-domain	ptp multi domain attribute configuration
transition-attributes	ptp multidomain priority domain conversion attributes
priority1	domain conversion priority1 value
<i>priority1-value</i>	Enter domain priority1 value, default 255

Command Mode

- /exec/configure

ptp multi-domain transition-attributes priority2

[no] ptp multi-domain transition-attributes priority2 <priority2-value>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
multi-domain	ptp multi domain attribute configuration
transition-attributes	ptp multidomain priority domain conversion attributes
priority2	domain conversion priority2 value
<i>priority2-value</i>	Enter domain priority2 value, default 255

Command Mode

- /exec/configure

ptp multicast master-only

[no] ptp multicast master-only

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
multicast	multicast
master-only	master only

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp offload

[no] ptp offload

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
offload	Allows increasing number of PTP sessions per system by offloading some timers to linecard

Command Mode

- /exec/configure

ptp priority1

[no] ptp priority1 <val>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
priority1	priority1
<i>val</i>	priority1

Command Mode

- /exec/configure

ptp priority2

[no] ptp priority2 <val>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
priority2	priority1
<i>val</i>	priority2

Command Mode

- /exec/configure

ptp send announce

ptp send announce

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
send	Sending announce packets
announce	Sending announce packets

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp source

[no] ptp source <src-ip> [vrf { <vrf-name> | <vrf-cfg-name> }]

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
source	source IP address
<i>src-ip</i>	IPv4 address (A.B.C.D) of source
vrf	(Optional) vrf to be used for hello messages
<i>vrf-name</i>	(Optional) vrf to be used for hellos
<i>vrf-cfg-name</i>	(Optional) Configurable VRF name

Command Mode

- /exec/configure

ptp sync interval

[no] ptp sync interval { <log-seconds> | smpte-2059-2 <smpte-log-seconds> | aes67 <aes-log-seconds> }

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
sync	sync
interval	interval
smpte-2059-2	SMPTE-2059-2
aes67	AES67-2015
<i>log-seconds</i>	log seconds
<i>smpte-log-seconds</i>	SMPTE-2059-2 log seconds
<i>aes-log-seconds</i>	AES67-2015 log seconds

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp time-sync

[no] ptp time-sync <value>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
time-sync	ptp time sync register
<i>value</i>	default reg value 0x40000000

Command Mode

- /exec/configure

ptp transport ipv4 ucast master

[no] ptp transport ipv4 ucast master

Syntax Description

no	(Optional) Negate a command or set its defaults
ptp	Precision Time Protocol (IEEE 1588) Subsystem
transport	unicast support
ipv4	ipv4
ucast	ipv4 unicast
master	master mode

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp transport ipv4 ucast slave

[no] ptp transport ipv4 ucast slave

Syntax Description

no	(Optional) Negate a command or set its defaults
ptp	Precision Time Protocol (IEEE 1588) Subsystem
transport	unicast support
ipv4	ipv4
ucast	ipv4 unicast
slave	slave mode

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp ucast-source

```
[no] ptp ucast-source <src-ip> [ vrf { <vrf-name> | <vrf-cfg-name> } ]
```

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
ucast-source	source IP address for ucast messages
<i>src-ip</i>	IPv4 address (A.B.C.D) of source
vrf	(Optional) vrf to be used for hello messages
<i>vrf-name</i>	(Optional) vrf to be used for hellos
<i>vrf-cfg-name</i>	(Optional) Configurable VRF name

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ptp vlan

[no] ptp vlan <vlan>

Syntax Description

ptp	Precision Time Protocol (IEEE 1588) Subsystem
vlan	vlan
<i>vlan</i>	vlan

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

publish-event sub-system type

```
publish-event sub-system <sub-system-id> type <event-type> { [ arg1 <data1> ] [ arg2 <data2> ] [ arg3
<data3> ] [ arg4 <data4> ] }
```

Syntax Description

publish-event	Publish an application specific event
sub-system	Sub-system ID to which the application event belongs
<i>sub-system-id</i>	Sub-system ID value
type	Event type value
<i>event-type</i>	Event type value
arg1	(Optional) User specified data to be passed when the event is published
<i>data1</i>	(Optional) User specified data value
arg2	(Optional) User specified data to be passed when the event is published
<i>data2</i>	(Optional) User specified data value
arg3	(Optional) User specified data to be passed when the event is published
<i>data3</i>	(Optional) User specified data value
arg4	(Optional) User specified data to be passed when the event is published
<i>data4</i>	(Optional) User specified data value

Command Mode

- /exec

purge ip route

```
purge ip route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>
```

Syntax Description

purge	Purge
ip	IPv4
route	Purge routing information
vrf	(Optional) 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
all	Purge all routes

Command Mode

- /exec

purge ipv6 route

```
purge ipv6 route [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>
```

Syntax Description

purge	Purge
ipv6	IPv6
route	Purge routing information
vrf	(Optional) 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
all	Purge all routes

Command Mode

- /exec

purge module running-config

purge module <module> running-config

Syntax Description

purge	Deletes unused data
module	Purge configuration for non-existent modules
<i>module</i>	Enter module number
running-config	purge running configuration for non-existent modules

Command Mode

- /exec

push

push [<name>]

Syntax Description

push	push current mode to stack or save it under name
<i>name</i>	(Optional) name

Command Mode

- /global

pwd

pwd

Syntax Description

pwd	View current directory
-----	------------------------

Command Mode

- /exec

python

python [<uri> [<pyargs>] +]

Syntax Description

<code>python</code>	run a python command/script, or enter python mode (if no arg)
<code>uri</code>	(Optional) path to a python file
<code>pyargs</code>	(Optional) python command line arguments (maximum 32)

Command Mode

- /exec

python execute virtual-service command

python execute virtual-service <service> command [<pyargs>] +

Syntax Description

python	run a python command/script, or enter python mode (if no arg)
execute	execute a virtual service command
virtual-service	virtual service to execute the command
command	command to execute
<i>service</i>	name of existing virtual service
<i>pyargs</i>	(Optional) command and args (maximum 32)

Command Mode

- /exec

python instance

[no] python instance <inst> [<uri> [<pyargs>] +] | python instance <inst> <uri> [<pyargs>] +

Syntax Description

no	Negate a command or set its defaults
python	run a python command/script, or enter python mode (if no arg)
instance	label with an instance number
<i>inst</i>	instance number
<i>uri</i>	(Optional) path to a python file
<i>pyargs</i>	(Optional) python command line arguments (maximum 32)

Command Mode

- /exec/configure



Q Commands

- [qos copy policy-map type network-qos prefix, on page 3472](#)
- [qos copy policy-map type queuing prefix, on page 3473](#)
- [qos qos-policies statistics, on page 3474](#)
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qos copy policy-map type network-qos prefix

qos copy policy-map type network-qos <pmap-nq-enum-name-dc3> { prefix | suffix } <ix-name>

Syntax Description

copy	Copy (Clone) template
policy-map	Configure a policy map
type	Specify the type of this policy-map
network-qos	Network QoS policy
<i>pmap-nq-enum-name-dc3</i>	
prefix	Policy map name prefix
suffix	Policy map name suffix
<i>ix-name</i>	Suffix/Prefix name, max size counted together with policy name

Command Mode

- /exec

qos copy policy-map type queuing prefix

qos copy policy-map type queuing <pmap-name-que-temp> { prefix | suffix } <ix-name>

Syntax Description

copy	Copy (Clone) template
policy-map	Configure a policy map
type	Specify the type of this policy-map
queuing	Queuing policy
<i>pmap-name-que-temp</i>	Policy-map name
prefix	Policy map name prefix
suffix	Policy map name suffix
<i>ix-name</i>	Suffix/Prefix name, max size counted together with policy name

Command Mode

- /exec

qos qos-policies statistics

[no] qos qos-policies statistics

Syntax Description

no	(Optional) Negate a command or set its defaults
qos-policies	All qos type policies
statistics	statistics

Command Mode

- /exec/configure

qos shared-policer

```
{ qos shared-policer [ type qos ] <policer-name> { [ cir ] { <cir-val> [ bps | kbps | mbps | gbps | pps ] | percent
<cir-perc> } [ [ bc ] { <committed-burst> [ bytes | kbytes | mbytes | ms | us | packets ] } ] [ pir { <pir-val> [
bps2 | kbps2 | mbps2 | gbps2 | pps2 ] | percent <pir-perc> } [ [ be ] { <extended-burst> [ bytes2 | kbytes2 |
mbytes2 | ms2 | us2 | packets2 ] } ] ] [ conform { transmit | set-prec-transmit { <prec-val> | <prec-enum> } |
set-dscp-transmit { <dscp-val> | <dscp-enum> } | set-cos-transmit <cos-val> | set-discard-class-transmit
<disc-class-val> | set-qos-transmit <qos-grp-val> | set-mpls-exp-imposition-transmit <exp-value-imp> |
set-mpls-exp-topmost-transmit <exp-value-top> } [ exceed { transmit1 | drop1 | set <exc-frm-field>
<exc-to-field> table cir-markdown-map | set-prec-transmit1 { <prec-val1> | <prec-enum1> } | set-dscp-transmit1
{ <dscp-val1> | <dscp-enum1> } | set-cos-transmit1 <cos-val1> | set-discard-class-transmit1 <disc-class-val1>
| set-qos-transmit1 <qos-grp-val1> | set-mpls-exp-imposition-transmit1 <exp-value-imp1> |
set-mpls-exp-topmost-transmit1 <exp-value-top1> } ] [ violate { drop2 | set <vio-frm-field> <vio-to-field>
table2 pir-markdown-map | set-prec-transmit2 { <prec-val2> | <prec-enum2> } | set-dscp-transmit2 {
<dscp-val2> | <dscp-enum2> } | set-cos-transmit2 <cos-val2> | set-discard-class-transmit2 <disc-class-val2>
| set-qos-transmit2 <qos-grp-val2> | set-mpls-exp-imposition-transmit2 <exp-value-imp2> |
set-mpls-exp-topmost-transmit2 <exp-value-top2> } ] ] } | no qos shared-policer [ type qos ] <policer-name>
}
```

Syntax Description

no	Negate a command or set its defaults
shared-policer	Shared policer
<i>policer-name</i>	Shared policer name
type	(Optional) Specify the type of shared-policer
qos	QoS Global Commands
cir	(Optional) Specify committed information rate
bc	(Optional) Specify committed burst
percent	Specify rate as percentage of interface data-rate
<i>cir-perc</i>	Percentage
<i>pir-perc</i>	(Optional) Percentage
pir	(Optional) Specify peak information rate
be	(Optional) Specify extended burst (for 1R3C meter)
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
pps	(Optional) Packets per second

bps2	(Optional) Bits per second
kbps2	(Optional) Kilo Bits per second
mbps2	(Optional) Mega Bits per second
gbps2	(Optional) Giga Bits per second
pps2	(Optional) Packets per second
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
us	(Optional) Micro second(s)
ms	(Optional) Milli second(s)
packets	(Optional) Packets
bytes2	(Optional) Bytes
kbytes2	(Optional) Kilo Bytes
mbytes2	(Optional) Mega Bytes
ms2	(Optional) Milli seconds
us2	(Optional) Micro seconds
packets2	(Optional) Packets
conform	(Optional) Specify a conform action
exceed	(Optional) Specify a exceed action
violate	(Optional) Specify a violate action
transmit	(Optional) Transmit packet
transmit1	(Optional) Transmit packet
drop1	(Optional) Drop packet
drop2	(Optional) Drop packet
set-prec-transmit	(Optional) Set precedence and send it
set-prec-transmit1	(Optional) Set precedence and send it
set-prec-transmit2	(Optional) Set precedence and send it
<i>prec-val</i>	(Optional) Precedence value
<i>prec-val1</i>	(Optional) Precedence value

<i>prec-val2</i>	(Optional) Precedence value
<i>prec-enum</i>	(Optional)
<i>prec-enum1</i>	(Optional)
<i>prec-enum2</i>	(Optional)
set-dscp-transmit	(Optional) Set dscp and send it
set-dscp-transmit1	(Optional) Set dscp and send it
set-dscp-transmit2	(Optional) Set dscp and send it
<i>dscp-val</i>	(Optional) DSCP value
<i>dscp-val1</i>	(Optional) DSCP value
<i>dscp-val2</i>	(Optional) DSCP value
<i>dscp-enum</i>	(Optional)
<i>dscp-enum1</i>	(Optional)
<i>dscp-enum2</i>	(Optional)
set-cos-transmit	(Optional) Set cos and send it
set-cos-transmit1	(Optional) Set cos and send it
set-cos-transmit2	(Optional) Set cos and send it
<i>cos-val</i>	(Optional) new cos value
<i>cos-val1</i>	(Optional) new cos value
<i>cos-val2</i>	(Optional) new cos value
set-discard-class-transmit	(Optional) Set discard class and send it
set-discard-class-transmit1	(Optional) Set discard class and send it
set-discard-class-transmit2	(Optional) Set discard class and send it
<i>disc-class-val</i>	(Optional) new discard-class value
<i>disc-class-val1</i>	(Optional) new discard-class value
<i>disc-class-val2</i>	(Optional) new discard-class value
set-qos-transmit	(Optional) Set qos-group and send it
set-qos-transmit1	(Optional) Set qos-group and send it
set-qos-transmit2	(Optional) Set qos-group and send it
<i>qos-grp-val</i>	(Optional) QoS group value

<i>qos-grp-val1</i>	(Optional) QoS group value
<i>qos-grp-val2</i>	(Optional) QoS group value
set-mpls-exp-imposition-transmit	(Optional) set-mpls-exp-imposition-transmit
set-mpls-exp-imposition-transmit1	(Optional) set-mpls-exp-imposition-transmit
set-mpls-exp-imposition-transmit2	(Optional) set-mpls-exp-imposition-transmit
<i>exp-value-imp</i>	(Optional) MPLS imposition value
<i>exp-value-imp1</i>	(Optional) MPLS imposition value
<i>exp-value-imp2</i>	(Optional) MPLS imposition value
set-mpls-exp-topmost-transmit	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit1	(Optional) Set MPLS topmost label
set-mpls-exp-topmost-transmit2	(Optional) Set MPLS topmost label
<i>exp-value-top</i>	(Optional) MPLS topmost value
<i>exp-value-top1</i>	(Optional) MPLS topmost value
<i>exp-value-top2</i>	(Optional) MPLS topmost value
set	(Optional) Set a particular value using table or markdown map
<i>exc-frm-field</i>	(Optional)
<i>exc-to-field</i>	(Optional)
<i>vio-frm-field</i>	(Optional)
<i>vio-to-field</i>	(Optional)
table	(Optional) Set using the table-map
table2	(Optional) Set using the table-map
cir-markdown-map	(Optional) Markdown map table name for exceed action
pir-markdown-map	(Optional) Markdown map table name for violate action

Command Mode

- /exec/configure

qos statistics

[no] qos statistics

Syntax Description

no	(Optional) Negate a command or set its defaults
statistics	statistics

Command Mode

- /exec/configure

qualify udf

[no] <udf_tcam_type> qualify udf { <udf_name> } +

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>udf_tcam_type</i>	Region type
qualify	Configure UDFs to be qualified for span region
udf	Configure UDF names
<i>udf_name</i>	UDF name

Command Mode

- /exec/configure/tcam-templ

queue-limit

[no] queue-limit [cos <cos-val>] { <q-size> [packets | bytes | kbytes | mbytes | ms | us] | percent <perc-q-size> | dynamic <alpha> }

Syntax Description

no	(Optional) Negate a command or set its defaults
queue-limit	Configure queue size for the class
cos	(Optional) IEEE 802.1Q Class of Service
<i>cos-val</i>	(Optional) 802.1Q Class of Service value
percent	Specify queue size in Percentage
<i>perc-q-size</i>	Queue size in percentage of total tx/rx buffer size
dynamic	Queue size in dynamic alpha factor
<i>alpha</i>	0-1/128, 1-1/64, 2-1/32, 3-1/16, 4-1/8, 5-1/4, 6-1/2, 7-1, 8-2, 9-4, 10-8
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
ms	(Optional) Milli second(s)
us	(Optional) Micro second(s)

Command Mode

- /exec/configure/policy-map/type/queuing/class

queue-limit2

```
[no] queue-limit2 [ cos2 <cos-val> ] { <q-size> [ packets | bytes | kbytes | mbytes | ms | us ] | percent2
<perc-q-size> | dynamic2 <alpha> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
queue-limit2	Configure queue size for the class
cos2	(Optional) IEEE 802.1Q Class of Service
<i>cos-val</i>	(Optional) 802.1Q Class of Service value
percent2	Specify queue size in Percentage
<i>perc-q-size</i>	Queue size in percentage of total tx/rx buffer size
dynamic2	Queue size in dynamic alpha factor
<i>alpha</i>	0-1/128, 1-1/64, 2-1/32, 3-1/16, 4-1/8, 5-1/4, 6-1/2, 7-1, 8-2, 9-4, 10-8
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
ms	(Optional) Milli second(s)
us	(Optional) Micro second(s)

Command Mode

- /exec/configure/policy-map/type/queuing/class

queue-limit3

```
[no] queue-limit3 [ cos3 <cos-val> ] { <q-size> [ packets | bytes | kbytes | mbytes | ms | us ] | percent3
<perc-q-size> | dynamic3 <alpha> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
queue-limit3	Configure queue size for the class
cos3	(Optional) IEEE 802.1Q Class of Service
<i>cos-val</i>	(Optional) 802.1Q Class of Service value
percent3	Specify queue size in Percentage
<i>perc-q-size</i>	Queue size in percentage of total tx/rx buffer size
dynamic3	Queue size in dynamic alpha factor
<i>alpha</i>	0-1/8, 1-1/4, 2-1/2, 3-3/4, 4-9/8, 5-15/8, 6-3, 7-5, 8-8, 9-14, 10-18
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
ms	(Optional) Milli second(s)
us	(Optional) Micro second(s)

Command Mode

- /exec/configure/policy-map/type/queuing/class

queue-limit bytes

[no] queue-limit { <q-size> bytes }

Syntax Description

no	(Optional) Negate a command or set its defaults
queue-limit	Configure queue size for the class
bytes	Bytes

Command Mode

- /exec/configure/policy-map/type/uf/class



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radius-server deadline

[no] radius-server deadline <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
deadline	duration for which non-reachable server is skipped
<i>i0</i>	Length of time, in minutes

Command Mode

- /exec/configure

radius-server directed-request

[no] radius-server directed-request

Syntax Description

no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
directed-request	enable direct authentication requests to server

Command Mode

- /exec/configure

radius-server host key 0 6 7

```
{ { [ no ] radius-server host <hostipname> { { key { 0 <s0> | 6 <s6> | 7 <s1> | <s2> } [ pac ] [ auth-port <i0>
[ acct-port <i1> ] ] } | { [ auth-port1 <i2> ] [ acct-port1 <i3> ] } } [ { authentication [ accounting [ timeout
<i4> ] [ retransmit <i5> ] ] } | { [ accounting1 ] [ timeout1 <i6> ] [ retransmit1 <i7> ] } ] } | { no radius-server
host <hostipname> key } }
```

Syntax Description

<i>key</i>	0
no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
host	RADIUS server's DNS name or its IP address
<i>hostipname</i>	IPV4/IPV6 address or DNS name
key	RADIUS shared secret
pac	(Optional) Secure Radius Enable
0	RADIUS shared secret(clear text)
<i>s0</i>	RADIUS shared secret(clear text)
accounting	(Optional) Use for accounting
retransmit	(Optional) RADIUS server retransmit count
<i>i5</i>	(Optional) RADIUS server retransmit count
timeout	(Optional) RADIUS server timeout period in seconds
<i>i4</i>	(Optional) RADIUS server timeout period in seconds
retransmit1	(Optional) RADIUS server retransmit count
<i>i7</i>	(Optional) RADIUS server retransmit count
auth-port	(Optional) RADIUS server's port for authentication
<i>i0</i>	(Optional) port number
timeout1	(Optional) RADIUS server timeout period in seconds
<i>i6</i>	(Optional) RADIUS server timeout period in seconds
acct-port	(Optional) RADIUS server's port for accounting
<i>i1</i>	(Optional) port number
accounting1	(Optional) Use for accounting

authentication	(Optional) Use for authentication
6	Radius shared secret(type-6 encrypted)
<i>s6</i>	Tadius shared secret(encrypted)
7	RADIUS shared secret(encrypted)
<i>s1</i>	RADIUS shared secret(encrypted)
auth-port1	(Optional) RADIUS server's port for authentication
<i>i2</i>	(Optional) port number
<i>s2</i>	RADIUS shared secret(clear text)
acct-port1	(Optional) RADIUS server's port for accounting
<i>i3</i>	(Optional) port number

Command Mode

- /exec/configure

radius-server host test

```
[no] radius-server host { <hostipname> } test { { username <s0> { [ password <s1> [ idle-time <i1> ] ] } | [ idle-time <i1> ] } } | { password <s1> [ idle-time <i1> ] } | { idle-time <i1> } }
```

Syntax Description

<i>username</i>	<s0>
no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
host	RADIUS server's DNS name or its IP address
<i>hostipname</i>	IPV4/IPV6 address or DNS name
test	Parameters to send test packets
<i>s0</i>	user name
password	(Optional) user password in test packets
<i>s1</i>	(Optional) user password
idle-time	(Optional) time interval for monitoring the server
<i>i1</i>	(Optional) time period in minutes

Command Mode

- /exec/configure

radius-server key 0 6 7

```
{ { [ no ] radius-server key { 0 <s0> | 6 <s6> | 7 <s1> | <s2> } } | { no radius-server key } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
key	Global RADIUS server shared secret
0	default RADIUS shared secret(clear text)
<i>s0</i>	default RADIUS shared secret(clear text)
6	default RADIUS shared secret(type-6 encrypted)
<i>s6</i>	default RADIUS shared secret(type-6 encrypted)
7	default RADIUS shared secret(encrypted)
<i>s1</i>	default RADIUS shared secret(encrypted)
<i>s2</i>	default RADIUS shared secret(clear text)

Command Mode

- /exec/configure

radius-server pss-clean

[no] radius-server pss-clean

Syntax Description

no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
pss-clean	Erase PSS

Command Mode

- /exec/configure

radius-server retransmit

[no] radius-server retransmit <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
retransmit	Global RADIUS server retransmit count
<i>i0</i>	Global RADIUS server retransmit count

Command Mode

- /exec/configure

radius-server test

```
[no] radius-server test { { username <s0> { [ password <s1> [ idle-time <i1> ] ] | [ idle-time <i1> ] } } | { password <s1> [ idle-time <i1> ] } | { idle-time <i1> } }
```

Syntax Description

<i>username</i>	<s0>
no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
test	Parameters to send test packets
<i>s0</i>	user name
password	(Optional) user password in test packets
<i>s1</i>	(Optional) user password
idle-time	(Optional) time interval for monitoring the server
<i>i1</i>	(Optional) time period in minutes

Command Mode

- /exec/configure

radius-server timeout

[no] radius-server timeout <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
radius-server	Configure RADIUS related parameters
timeout	Global RADIUS server timeout period in seconds
<i>i0</i>	RADIUS server timeout period in seconds

Command Mode

- /exec/configure

random-detect

```
[no] random-detect [ { minimum-threshold <min-thresh> { packets | bytes | kbytes | mbytes }
maximum-threshold <max-thresh> { packets1 | bytes1 | kbytes1 | mbytes1 } drop-probability <drop-prob>
weight <weight> [ cap-average ] } | threshold { burst-optimized | mesh-optimized } ] [ ecn ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
random-detect	Configure WRED parameters
threshold	(Optional) Threshold
burst-optimized	(Optional) Threshold optimized for bursty traffic
mesh-optimized	(Optional) Threshold optimized for mesh traffic
minimum-threshold	(Optional) Specify minimum threshold for WRED
maximum-threshold	(Optional) Specify maximum threshold for WRED
<i>max-thresh</i>	(Optional) Maximum threshold value
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
packets1	(Optional) Packets
bytes1	(Optional) Bytes
kbytes1	(Optional) Kilo Bytes
mbytes1	(Optional) Mega Bytes
drop-probability	(Optional) Drop Probability at Maximum Threshold
<i>drop-prob</i>	(Optional) Drop Probability Value
weight	(Optional) Queue length weight
<i>weight</i>	(Optional) Queue length weight
cap-average	(Optional) If average queue length is more, replace average queue length with current queue length
ecn	(Optional) ECN

Command Mode

- /exec/configure/policy-map/type/queuing/class

random-detect2 minimum-threshold2 maximum-threshold2

```
[no] random-detect2 minimum-threshold2 <min-thresh2> { packets2 | bytes2 | kbytes2 | mbytes2 }
maximum-threshold2 <max-thresh2> { packets3 | bytes3 | kbytes3 | mbytes3 } [ drop-probability2 <drop-prob2>
weight2 <weight2> [ cap-average2 ] ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
random-detect2	Configure WRED parameters
minimum-threshold2	Specify minimum threshold for WRED
maximum-threshold2	Specify maximum threshold for WRED
packets2	Packets
bytes2	Bytes
kbytes2	Kilo Bytes
mbytes2	Mega Bytes
packets3	Packets
bytes3	Bytes
kbytes3	Kilo Bytes
mbytes3	Mega Bytes
drop-probability2	(Optional) Drop Probability at Maximum Threshold
<i>drop-prob2</i>	(Optional) Drop Probability Value
weight2	(Optional) Queue length weight
<i>weight2</i>	(Optional) Queue length weight
cap-average2	(Optional) If average queue length is more, replace average queue length with current queue length

Command Mode

- /exec/configure/policy-map/type/queuing/class

random-detect2 non-ecn minimum-threshold2 maximum-threshold2 drop

```
[no] random-detect2 non-ecn minimum-threshold2 <min-thresh2> { packets2 | bytes2 | kbytes2 | mbytes2 }
maximum-threshold2 <max-thresh2> { packets3 | bytes3 | kbytes3 | mbytes3 } { drop-probability2 <drop-prob2>
}
```

Syntax Description

no	(Optional) Negate a command or set its defaults
random-detect2	Configure WRED parameters
non-ecn	Configure WRED parameters for non-ecn
minimum-threshold2	Specify minimum threshold for WRED
maximum-threshold2	Specify maximum threshold for WRED
packets2	Packets
bytes2	Bytes
kbytes2	Kilo Bytes
mbytes2	Mega Bytes
packets3	Packets
bytes3	Bytes
kbytes3	Kilo Bytes
mbytes3	Mega Bytes
drop-probability2	Drop Probability at Maximum Threshold
<i>drop-prob2</i>	Drop Probability Value

Command Mode

- /exec/configure/policy-map/type/queuing/class

random-detect

```
[no] random-detect { cos <cos-list> [ minimum-threshold ] { <min-thresh> [ packets | bytes | kbytes | mbytes
| ms | us ] | percent <min-percent-of-qsize> } [ maximum-threshold ] { <max-thresh> [ packets1 | bytes1 |
kbytes1 | mbytes1 | ms1 | us1 ] | percent1 <max-percent-of-qsize> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
random-detect	Configure WRED parameters
cos	Parameters for each cos value
<i>cos-list</i>	List of class-of-service values
minimum-threshold	(Optional) Specify minimum threshold for WRED
maximum-threshold	(Optional) Specify maximum threshold for WRED
<i>max-thresh</i>	Maximum threshold value
percent	Specify thresholds in percent
percent1	Specify thresholds in percent
<i>min-percent-of-qsize</i>	Minimum threshold percent of queue size
<i>max-percent-of-qsize</i>	Maximum threshold percent of queue size
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
ms	(Optional) Milli second(s)
us	(Optional) Micro second(s)
packets1	(Optional) Packets
bytes1	(Optional) Bytes
kbytes1	(Optional) Kilo Bytes
mbytes1	(Optional) Mega Bytes
ms1	(Optional) Milli second(s)
us1	(Optional) Micro second(s)

Command Mode

- /exec/configure/policy-map/type/queuing/class

random-detect cos-based

[no] random-detect cos-based [aggregate [minimum-threshold] { <min-thresh> [packets | bytes | kbytes | mbytes | ms | us] | percent <min-percent-of-qsize> } [maximum-threshold] { <max-thresh> [packets1 | bytes1 | kbytes1 | mbytes1 | ms1 | us1] | percent1 <max-percent-of-qsize> }]

Syntax Description

no	(Optional) Negate a command or set its defaults
random-detect	Configure WRED parameters
cos-based	Configure WRED parameters for cos-based mode
aggregate	(Optional) Configure WRED parameters to same value for all sub-classes
minimum-threshold	(Optional) Specify minimum threshold for WRED
maximum-threshold	(Optional) Specify maximum threshold for WRED
<i>max-thresh</i>	(Optional) Maximum threshold value
percent	(Optional) Specify thresholds in percent
percent1	(Optional) Specify thresholds in percent
<i>min-percent-of-qsize</i>	(Optional) Minimum threshold percent of queue size
<i>max-percent-of-qsize</i>	(Optional) Maximum threshold percent of queue size
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes
ms	(Optional) Milli second(s)
us	(Optional) Micro second(s)
packets1	(Optional) Packets
bytes1	(Optional) Bytes
kbytes1	(Optional) Kilo Bytes
mbytes1	(Optional) Mega Bytes
ms1	(Optional) Milli second(s)
us1	(Optional) Micro second(s)

Command Mode

- /exec/configure/policy-map/type/queuing/class

rate-limit cpu direction pps action log

[no] rate-limit cpu direction { input | output | both } pps <pps-val> action log

Syntax Description

no	(Optional) Negate a command or set its defaults
rate-limit	set packet per second rate limit
cpu	Supervisor CPU limits
direction	input/output direction
input	set max input packet rate
output	set max output packet rate
both	set max input and output packet rate
pps	packet per second
<i>pps-val</i>	pps value
action	log action
log	write a syslog message if PPS hits rate-limit

Command Mode

- /exec/configure

rate-limit cpu direction pps action log

[no] rate-limit cpu direction { input | output | both } pps <pps-val> action log

Syntax Description

no	(Optional) Negate a command or set its defaults
rate-limit	set packet per second rate limit
cpu	Supervisor CPU limits
direction	input/output direction
input	set max input packet rate
output	set max output packet rate
both	set max input and output packet rate
pps	packet per second
<i>pps-val</i>	pps value
action	log action
log	write a syslog message if PPS hits rate-limit

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-eth-any /exec/configure/if-mgmt-config

rate-limit packet_in burst

rate-limit packet_in <packetin-val> burst <burst-val> | no rate-limit

Syntax Description

no	Negate a command or set its defaults
rate-limit	OpenFlow rate limit to controller
packet_in	packet in rate (pps)
<i>packetin-val</i>	packets per second
burst	Maximum number of packets to controller (pps)
<i>burst-val</i>	packets per second

Command Mode

- /exec/configure/openflow/switch

rate-limit packet_in burst

rate-limit packet_in <packetin-val> burst <burst-val> | no rate-limit

Syntax Description

no	Negate a command or set its defaults
rate-limit	OpenFlow rate limit to controller
packet_in	packet in rate (pps)
<i>packetin-val</i>	packets per second
burst	Maximum number of packets to controller (pps)
<i>burst-val</i>	packets per second

Command Mode

- /exec/configure/openflow/switch/sub-switch

rate-mode

rate-mode <ratemode> [force] | no rate-mode [<ratemode>] [force]

Syntax Description

no	Negate a command or set its defaults
rate-mode	Enter the rate mode
force	(Optional) This option will shutdown all ports in port-group momentarily
<i>ratemode</i>	Interface port speed

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

rd auto

```
{ rd { auto | <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } } | { no rd [ { auto | <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] }
```

Syntax Description

no	Negate a command or set its defaults
rd	VPN Route Distinguisher
auto	Generate RD automatically
<i>ext-comm-rd-aa4nn2</i>	VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	VPN route distinguisher in aa:nn format

Command Mode

- /exec/configure/vrf

rd auto

```
{ rd { auto | <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } } | { no rd [ { auto | <ext-comm-rd-aa2nn4> | <ext-comm-rd-aa4nn2> } ] }
```

Syntax Description

no	Negate a command or set its defaults
rd	VPN Route Distinguisher
auto	Generate RD automatically
<i>ext-comm-rd-aa4nn2</i>	VPN route distinguisher in aa4:nn or ip:nn format
<i>ext-comm-rd-aa2nn4</i>	VPN route distinguisher in aa:nn format

Command Mode

- /exec/configure/evpn/evi

reconnect-interval

reconnect-interval <interval> | no reconnect-interval [<interval>]

Syntax Description

no	Negate a command or set its defaults
reconnect-interval	Configure connection reconnect interval
<i>interval</i>	Interval in seconds

Command Mode

- /exec/configure/router-bgp/vrf-cmds

record-route

[no] record-route

Syntax Description

no	(Optional) Negate a command or set its defaults
record-route	Record the route used by the LSP

Command Mode

- /exec/configure/te/lsp-attr

record-route

[no] record-route

Syntax Description

no	(Optional) Negate a command or set its defaults
record-route	record the route used by the tunnel

Command Mode

- /exec/configure/if-te /exec/configure/tunnel-te/cbts-member

record

[no] record <recordname>

Syntax Description

record	Specify Flow Record to use
<i>recordname</i>	Name of record

Command Mode

- /exec/configure/nfm-monitor

record netflow-original

[no] record netflow-original

Syntax Description

record	Specify Flow Record to use
netflow-original	Traditional IPv4 input NetFlow with origin ASs

Command Mode

- /exec/configure/nfm-monitor

record netflow

```
[no] record netflow { ipv4 { original-input } }
```

Syntax Description

record	Specify Flow Record to use
netflow	Traditional NetFlow collection schemes
ipv4	Traditional IPv4 NetFlow collection schemes
original-input	Traditional IPv4 input NetFlow

Command Mode

- /exec/configure/nfm-monitor

record netflow

[no] record netflow { ipv6 { original-input } }

Syntax Description

record	Specify Flow Record to use
netflow	Traditional NetFlow collection schemes
ipv6	IPv6 collection schemes
original-input	Input NetFlow

Command Mode

- /exec/configure/nfm-monitor

record netflow

```
[no] record netflow { layer2-switched { input } }
```

Syntax Description

record	Specify Flow Record to use
netflow	Traditional NetFlow collection schemes
layer2-switched	Traditional L2 NetFlow collection schemes
input	Input NetFlow

Command Mode

- /exec/configure/nfm-monitor

record netflow protocol-port

[no] record netflow protocol-port

Syntax Description

record	Specify Flow Record to use
netflow	Traditional NetFlow collection schemes
protocol-port	Protocol and Ports aggregation scheme

Command Mode

- /exec/configure/nfm-monitor

redistribute-internal

[no] redistribute-internal

Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute-internal	iBGP redistribution into an IGP

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv4
/exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6

redistribute bgp

```
{ redistribute { { bgp <as> } | { eigrp | isis | ospfv3 | rip } <ptag> | static | direct | amt | lisp } route-map {
<policy-name> | <rtr_pol_name> } } | { no redistribute { { bgp <as> } | { eigrp | isis | ospfv3 | rip } <ptag> |
static | direct | amt | lisp } [ route-map { <policy-name> | <rtr_pol_name> } ] }
```

Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
isis	ISO Intermediate-to-Intermediate (IS-IS)
ospfv3	Open Shortest Path First (OSPFv3)
rip	Routing Information Protocol (RIP)
ptag	Process Tag
static	Static
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Policy to constrain redistribution
policy-name	Route-map name
rtr_pol_name	An existing routing-rules policy

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

redistribute bgp eigrp isis ospf rip static direct amt lisp route-map

```
{ redistribute { bgp <as> | { eigrp | isis | ospf | rip } <ptag> | static | direct | amt | lisp } route-map {
<policy-name> | <rtr_pol_name> } } | { no redistribute { bgp <as> | { eigrp | isis | ospf | rip } <ptag> | static
| direct | amt | lisp } [ route-map { <policy-name> | <rtr_pol_name> } ] }
```

Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
isis	ISO Intermediate-to-Intermediate (IS-IS)
ospf	Open Shortest Path First (OSPFv2)
eigrp	Enhanced Interior Gateway Protocol (EIGRP)
rip	Routing Information Protocol (RIP)
ptag	Protocol Tag
static	Static
direct	Directly connected
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Policy to constrain redistribution
policy-name	Route-map name
rtr_pol_name	An existing routing-rules policy

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

redistribute filter route-map

[no] redistribute filter route-map { <map-name> | <rtr_pol_name> }

Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
filter	Filter redistributed routes
route-map	Route-map to constrain redistribution
<i>map-name</i>	A 'routing-rules' route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

redistribute maximum-prefix

```
{ redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] } | { no redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] }
```

Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
maximum-prefix	Maximum number of prefixes redistributed to protocol
<i>maximum</i>	Maximum number of IP prefixes redistributed
<i>threshold</i>	(Optional) Threshold value (%) at which to generate a warning message
warning-only	(Optional) Log a warning message when limit is exceeded
withdraw	(Optional) Withdraw all redistributed routes
<i>retries</i>	(Optional) Number of times to retry to get the redistributed routes again
<i>timeout</i>	(Optional) Timeout between each retries

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

redistribute maximum-prefix

```
redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] | no redistribute maximum-prefix [ <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] ]
```

Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
maximum-prefix	Max number of prefixes redistributed
<i>maximum</i>	max number
<i>threshold</i>	(Optional) Threshold in %, at which message is generated
warning-only	(Optional) Warning msg is logged when threshold is reached
withdraw	(Optional) Withdraw all redistributed routes
<i>retries</i>	(Optional) Number of attempts to receive redistributed routes after max is reached
<i>timeout</i>	(Optional) Retry interval

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

redistribute maximum-prefix

```
redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] | no redistribute maximum-prefix [ <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] ]
```

Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
maximum-prefix	Max number of prefixes redistributed
<i>maximum</i>	max number
<i>threshold</i>	(Optional) Threshold in %, at which message is generated
warning-only	(Optional) Warning msg is logged when max is reached
withdraw	(Optional) Withdraw all redistributed routes
<i>retries</i>	(Optional) No of times to retry to get redist routes again
<i>timeout</i>	(Optional) Time between the retries

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv4

redistribute maximum-prefix

```
redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] | no redistribute maximum-prefix [ <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] ]
```

Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
maximum-prefix	Max number of prefixes redistributed
<i>maximum</i>	max number
<i>threshold</i>	(Optional) Threshold in %, at which message is generated
warning-only	(Optional) Warning msg is logged when max is reached
withdraw	(Optional) Withdraw all redistributed routes
<i>retries</i>	(Optional) No of times to retry to get redist routes again
<i>timeout</i>	(Optional) Time between the retries

Command Mode

- /exec/configure/router-isis/router-isis-af-ipv6

redistribute maximum-prefix

```
{ redistribute maximum-prefix <maximum> [ <threshold> ] [ warning-only | withdraw [ <retries> <timeout> ] ] } | { no redistribute maximum-prefix }
```

Syntax Description

no	Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
maximum-prefix	Maximum number of prefixes redistributed to protocol
<i>maximum</i>	Maximum number of IP prefixes redistributed
<i>threshold</i>	(Optional) Threshold value (%) at which to generate a warning message
warning-only	(Optional) Log a warning message when limit is exceeded
withdraw	(Optional) Withdraw all redistributed routes
<i>retries</i>	(Optional) Number of times to retry to get the redistributed routes again
<i>timeout</i>	(Optional) Timeout between each retries

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

redistribute route-map

[no] redistribute { static | direct | amt | lisp | am | hmm | { { eigrp | isis | ospf | rip } <tag> } } route-map <rmap-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Configure redistribution
static	Static routes
direct	Directly connected
isis	ISO IS-IS
ospf	Open Shortest Path First (OSPF)
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Protocol
amt	AMT anycast prefix
lisp	LISP EID-prefixes in the non-default VRF
am	AM routes (learned via ARP)
hmm	HMM prefix
route-map	Route-map applied to redistributed routes
<i>rmap-name</i>	Route-map name
<i>tag</i>	Source protocol tag

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv4

redistribute route-map

```
[no] redistribute { static | direct | amt | lisp | am | hmm | { { eigrp | isis | ospfv3 | rip } <tag> } } route-map
<rmap-name>
```

Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Configure redistribution
static	Static routes
direct	Directly connected
isis	ISO IS-IS
ospfv3	Open Shortest Path First, version 3 (OSPFv3)
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Protocol
amt	AMT anycast prefix
lisp	LISP EID-prefixes in the non-default VRF
hmm	HMM prefix
am	AM routes (learned via ARP)
route-map	Route-map applied to redistributed routes
<i>rmap-name</i>	Route-map name
<i>tag</i>	Source protocol tag

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6

redistribute route-map

```
[no] redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag> | static | direct | amt | lisp } route-map {
<map-name> | <rtr_pol_name> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
as	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)
tag	Process tag
static	Static routes
direct	Directly connected
lisp	LISP EID-prefixes
amt	AMT Anycast prefix
route-map	Route-map to constrain redistribution
map-name	Route-map name
rtr_pol_name	An existing routing-rules policy

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-ipv4

redistribute route-map

```
[no] redistribute { bgp <as> | { eigrp | isis | ospfv3 | rip } <tag> | static | direct | amt | lisp } route-map {
<map-name> | <rtr_pol_name> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
isis	IS-IS Routing for IPv4
ospfv3	Open Shortest Path First (OSPF) V3
rip	Routing Information Protocol (RIP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
tag	Process tag
static	Static routes
direct	Directly connected
amt	AMT Anycast prefix
lisp	LISP EID-prefixes
route-map	Route-map to constrain redistribution
map-name	Route-map name
rtr_pol_name	An existing routing-rules policy

Command Mode

- /exec/configure/router-eigrp/router-eigrp-af-ipv6

redistribute route-map

```
[no] redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag> | static | direct | amt } route-map { <map-name>
| <rtr_pol_name> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
isis	IS-IS Routing for IPv4
ospf	Open Shortest Path First (OSPF)
eigrp	Enhanced Interior Gateway Protocol
rip	RIP for IPv4
tag	Process tag
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
route-map	Route-map to constrain redistribution
map-name	A 'routing-rules' route-map name
rtr_pol_name	An existing routing-rules policy

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv4

redistribute route-map

```
[no] redistribute { bgp <as> | { eigrp | isis | ospfv3 | rip } <tag> | static | direct | amt } route-map { <map-name>
| <rtr_pol_name> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	Redistribute information from another routing protocol
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous system number
isis	IS-IS Routing for IPv6
ospfv3	Open Shortest Path First (OSPF) V3
eigrp	Enhanced Interior Gateway Protocol
rip	RIP for IPv6 (RIPNG)
<i>tag</i>	Process tag
static	Static routes
direct	Directly connected
amt	AMT anycast prefix
route-map	Route-map to constrain redistribution
<i>map-name</i>	A 'routing-rules' route-map name
<i>rtr_pol_name</i>	An existing routing-rules policy

Command Mode

- /exec/configure/router-isis/router-isis-af-ipv6

redistribute route-map

[no] redistribute { bgp <as> | { eigrp | isis | ospfv3 | rip } <tag> | static | direct | amt | lisp } route-map <map-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
as	Autonomous system number
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
isis	Intermediate-to-intermediate (ISIS)
rip	Routing Information Protocol (RIP)
ospfv3	Open Shortest Path First (OSPFv3)
tag	Process tag
static	Static routes
direct	Directly connected routes
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Policy to constrain redistribution
map-name	Route-map name

Command Mode

- /exec/configure/router-rip/router-rip-af-ipv6 /exec/configure/router-rip/router-rip-vrf-af-ipv6

redistribute route-map

[no] redistribute { bgp <as> | { eigrp | isis | ospf | rip } <tag> | static | direct | amt | lisp } route-map <map-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
redistribute	RIP redistribute routes from other routing protocol
bgp	Border Gateway Protocol (BGP)
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
as	Autonomous system number
isis	Intermediate-to-intermediate (ISIS)
rip	Routing Information Protocol (RIP)
ospf	Open Shortest Path First (OSPFv2)
tag	Process tag
static	Static routes
direct	Directly connected routes
amt	AMT anycast prefix
lisp	LISP EID-prefixes
route-map	Policy to constrain redistribution
map-name	Route-map name

Command Mode

- /exec/configure/router-rip/router-rip-af-ipv4 /exec/configure/router-rip/router-rip-vrf-af-ipv4

redundancy-group

[no] redundancy-group

Syntax Description

no	(Optional) Negate a command or set its defaults
redundancy-group	Configure a redundancy-group node

Command Mode

- /exec/configure/if-nve

reference-bandwidth

[no] reference-bandwidth { <ref-bw-mbps> [Mbps] | <ref-bw-gbps> Gbps }

Syntax Description

no	(Optional) Negate a command or set its defaults
reference-bandwidth	Change reference bandwidth used for setting interface metric
<i>ref-bw-mbps</i>	Bandwidth in Mbps (Default)
Mbps	(Optional) Specify in Mbps
<i>ref-bw-gbps</i>	Bandwidth in Gbps
Gbps	Specify in Gbps

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

refresh profile-diff

refresh profile-diff <src-profile> <dest-profile> [cleanup destination-profile]

Syntax Description

refresh	Refresh an applied config profile instance
profile-diff	Generate the diff between source and destination profile instances
cleanup	(Optional) Profile cleanup options after diff calculation
destination-profile	(Optional) Clean up destination profile after diff calculation
<i>src-profile</i>	Enter the name of the instance
<i>dest-profile</i>	Enter the name of the include profile

Command Mode

- /exec

refresh profile

[no] refresh profile <profile> <dest-profile> [overwrite]

Syntax Description

no	(Optional) Negate a command or set its defaults
refresh	Refresh config-profile
profile	Refresh an applied config-profile
<i>profile</i>	Enter the name of an applied profile as the source profile
<i>dest-profile</i>	Enter the name of an unapplied profile as the destination profile
overwrite	(Optional) Override the source profile with the destination profile

Command Mode

- /exec

register-database-mapping

{ [no] register-database-mapping }

Syntax Description

no	(Optional) Negate a command or set its defaults
register-database-mapping	Register database-mapping EID-prefix to Map-Server

Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

register-route-notifications

{ [no] register-route-notifications }

Syntax Description

no	(Optional) Negate a command or set its defaults
register-route-notifications	Register more-specific routes of the database-mapping EID-prefix to Map-Server

Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

reload

reload

Syntax Description

reload	reboot the entire box
--------	-----------------------

Command Mode

- /exec

reload ascii

reload ascii [vdc-all]

Syntax Description

reload	Power cycle
ascii	Reload with ASCII startup-configuration
vdc-all	(Optional) Perform for all vdc's

Command Mode

- /exec

reload force

reload force

Syntax Description

reload	reboot the entire box
force	reload without prompting

Command Mode

- /exec

reload kexec

reload kexec

Syntax Description

reload	reboot the entire box
kexec	reboot using kexec

Command Mode

- /exec

reload kexec

reload kexec <s0> <s1>

Syntax Description

reload	reboot the entire box
kexec	reboot using kexec
<i>s0</i>	please enter the boot image name
<i>s1</i>	please enter the isan image name

Command Mode

- /exec

reload module

reload module <module>

Syntax Description

reload	reboot the entire box
module	reboot a specific module
<i>module</i>	please enter the module number

Command Mode

- /exec

reload module force-dnld

reload module <module> force-dnld

Syntax Description

reload	reboot the entire box
module	reboot a specific module
<i>module</i>	please enter the module number
force-dnld	reboot a specific module to force NetBoot and image download

Command Mode

- /exec

reload module hard

reload module <module> hard

Syntax Description

reload	reboot the entire box
module	reboot a specific module
<i>module</i>	please enter the module number
hard	hard reboot a specific module

Command Mode

- /exec

reload non-interruptive

reload non-interruptive

Syntax Description

reload	reboot the entire box
non-interruptive	Reboot without interruption

Command Mode

- /exec

reload power-cycle

reload power-cycle

Syntax Description

reload	reboot the entire box
power-cycle	Power cycle ADM

Command Mode

- /exec

reload restore

reload restore [delay <time-out>] | no reload restore

Syntax Description

no	Negate a command or set its defaults
reload	Settings for vpc action on reload with vpc configs
restore	restore vpcs assuming peer is not functional
delay	(Optional) Duration to wait before assuming peer dead and restoring vpcs
<i>time-out</i>	(Optional) Time-out for restoring vPC links (in seconds)

Command Mode

- /exec/configure/vpc-domain

reload sync-adjacency

reload sync-adjacency

Syntax Description

reload	reboot the entire box
sync-adjacency	Reload with sync adjacency

Command Mode

- /exec

reload sync-adjacency

reload sync-adjacency

Syntax Description

reload	reload with sync adjacency
sync-adjacency	Reload with ARP/ND sync adjacency

Command Mode

- /exec

reload vdc

reload vdc <d-vdc>

Syntax Description

vdc	Restart the current vdc
reload	Power cycle
<i>d-vdc</i>	Enter Virtual Device Context <vdc-id>

Command Mode

- /exec

reload vdc

reload vdc

Syntax Description

vdc	Restart the current vdc
reload	Power cycle

Command Mode

- /exec

remark

```
{ [ <seqno> ] | no } remark <comment>
```

Syntax Description

<code>no</code>	Negate a command or set its defaults
<code>seqno</code>	(Optional) Sequence number
<code>remark</code>	Access list entry comment
<code>comment</code>	Comment, up to 100 characters

Command Mode

- /exec/configure/arpacl /exec/configure/timerange

remark

{ [<seqno>] | no } remark <comment>

Syntax Description

no	Negate a command or set its defaults
<i>seqno</i>	(Optional) Sequence number
remark	Access list entry comment
<i>comment</i>	Comment, up to 100 characters

Command Mode

- /exec/configure/ipacl /exec/configure/ipv6acl

remark

{ [<seqno>] | no } remark <comment>

Syntax Description

no	Negate a command or set its defaults
<i>seqno</i>	(Optional) Sequence number
remark	Access list entry comment
<i>comment</i>	Comment, up to 100 characters

Command Mode

- /exec/configure/macacl

remote-as

```
{ remote-as <asn> } | { { no | default } remote-as [ <asn> ] }
```

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
remote-as	Specify Autonomous System Number of the neighbor
<i>asn</i>	Autonomous System Number

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

remote

```
remote { { ip address { <ipaddress> } | hostname <host_name> } [ port <port_no> ] [ vrf { <vrf-name> |
<vrf-known-name> } ] | port <port_no> | vrf { <vrf-name> | <vrf-known-name> } } | no remote { ip address
| hostname | port }
```

Syntax Description

no	Negate a command or set its defaults
remote	Configure remote machine information
ip	Configure IP features
address	Configure IP address
<i>ipaddress</i>	Enter ipv4 address information
hostname	Configure remote host name
<i>host_name</i>	Enter name of the remote host
port	(Optional) Configure remote host tcp port
<i>port_no</i>	(Optional) Configure the host tcp port number
vrf	(Optional) vrf via which the vCenter Server is reachable
<i>vrf-name</i>	(Optional) Specify the vrf-name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec/configure/vmt-conn

remove-private-as

[no | default] remove-private-as [all | replace-as]

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
remove-private-as	Remove private AS number from outbound updates
all	(Optional) All
replace-as	(Optional) Replace

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

remove-routes vni

remove-routes vni <vni-id>

Syntax Description

remove-routes	NVE Peer
vni	Virtual Network Identifier
<i>vni-id</i>	VNI

Command Mode

- /exec/configure/if-nve

remove cli commands

remove cli commands <filename>

Syntax Description

remove	remove
cli	cli
commands	commands
<i>filename</i>	filename

Command Mode

- /exec

reoptimize events link-up

[no] reoptimize events link-up | no reoptimize timers { delay { cleanup | installation } | frequency } | reoptimize timers { delay { cleanup <clean_sec> | installation <inst_sec> } | frequency <freq_sec> }

Syntax Description

no	(Optional) Negate a command or set its defaults
reoptimize	Reoptimization parameters
events	Reoptimization triggers
link-up	Reoptimize tunnels on link up events
timers	Reoptimization timers
delay	Delay reoptimization action
cleanup	Delay cleanup of reoptimized LSP
<i>clean_sec</i>	seconds to delay cleanup of replaced tunnel LSP
installation	Delay replacement of current LSP by reoptimized LSP
<i>inst_sec</i>	seconds to delay replacement of tunnel LSP
frequency	Interval between reoptimization scans
<i>freq_sec</i>	seconds between reoptimizations (0 disables reoptimization)

Command Mode

- /exec/configure/te

replay-protection

[no] replay-protection

Syntax Description

replay-protection	Enable replay-protection (the default use the no form to disable)
-------------------	---

Command Mode

- /exec/configure/cts-dot1x /exec/configure/cts-manual

replication-server

[no] replication-server <addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
replication-server	Configure a replication server
<i>addr</i>	Replication Server IP Address

Command Mode

- /exec/configure/if-nve

report

report

Syntax Description

report	Show trigger report
--------	---------------------

Command Mode

- /exec/elamns/sel3

report

report

Syntax Description

report	Show trigger report
--------	---------------------

Command Mode

- /exec/elamns/se14

report

report

Syntax Description

report	Show trigger report
--------	---------------------

Command Mode

- /exec/elamns/sel5

report

report

Syntax Description

report	Show trigger report
--------	---------------------

Command Mode

- /exec/elamns/se16

report

report

Syntax Description

report	Show trigger report
--------	---------------------

Command Mode

- /exec/elanms/sel7

report

report

Syntax Description

report	Show trigger report
--------	---------------------

Command Mode

- /exec/elamns/outsel0

report

report

Syntax Description

report	Show trigger report
--------	---------------------

Command Mode

- /exec/elamns/outsel5

request-data-size

{ { no | default } request-data-size | request-data-size <bytes-in-payload> }

Syntax Description

no	
default	Set a command to its defaults
request-data-size	Request data size
<i>bytes-in-payload</i>	Number of bytes in payload

Command Mode

- /exec/configure/ip-sla/udp

request-data-size

{ { no | default } request-data-size | request-data-size <bytes-in-payload> }

Syntax Description

no	
default	Set a command to its defaults
request-data-size	Request data size
<i>bytes-in-payload</i>	Number of bytes in payload

Command Mode

- /exec/configure/ip-sla/icmpEcho

request-data-size

{ { no | default } request-data-size | request-data-size <bytes-in-payload> }

Syntax Description

no	
default	Set a command to its defaults
request-data-size	Request data size
<i>bytes-in-payload</i>	Number of bytes in payload

Command Mode

- /exec/configure/ip-sla/jitter

resequence access

```
resequence { { <ip_ipv6_mac_arp> access-list } | time-range } <name> <number> <increment>
```

Syntax Description

resequence	Resequence a list with sequence numbers
<i>ip_ipv6_mac_arp</i>	IP/IPv6/MAC/ARP
access-list	Resequence an access list
time-range	Resequence a time-range
<i>name</i>	List name
<i>number</i>	Starting sequence number
<i>increment</i>	Step to increment the sequence number

Command Mode

- /exec/configure

reset

reset

Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

Command Mode

- /exec/elanms/se13

reset

reset

Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

Command Mode

- /exec/elamns/sel4

reset

reset

Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

Command Mode

- /exec/elanms/se15

reset

reset

Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

Command Mode

- /exec/elamns/sel6

reset

reset

Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

Command Mode

- /exec/elamns/se17

reset

reset

Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

Command Mode

- /exec/elamns/outse0

reset

reset

Syntax Description

reset	Reset Trigger conditions
-------	--------------------------

Command Mode

- /exec/elamns/outse15

restart amt

restart amt

Syntax Description

restart	Manually restart a component
amt	Restart the AMT multicast routing protocol

Command Mode

- /exec

restart bgp

restart bgp <as>

Syntax Description

restart	Manually restart a component
bgp	Border Gateway Protocol (BGP)
<i>as</i>	Autonomous

Command Mode

- /exec

restart ecp

restart ecp

Syntax Description

restart	Manually restart ECP
ecp	Restart ECP

Command Mode

- /exec

restart eigrp

restart eigrp <eigrp-ptag>

Syntax Description

restart	Manually restart a component
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>eigrp-ptag</i>	Process tag

Command Mode

- /exec

restart fabric_mcast

```
restart { fabric_mcast | ngmvpn }
```

Syntax Description

restart	Manually restart a component
fabric_mcast	Restart NGMVPN
ngmvpn	Restart NGMVPN

Command Mode

- /exec

restart igmp

restart igmp

Syntax Description

restart	Manually restart a component
igmp	Restart the IGMP multicast routing protocol

Command Mode

- /exec

restart isis

restart isis <tag>

Syntax Description

restart	Manually restart a component
isis	Intermediate System to Intermediate System (IS-IS)
<i>tag</i>	Routing process tag

Command Mode

- /exec

restart l3vm

restart l3vm

Syntax Description

restart	Manually restart a component
l3vm	Display VRF information

Command Mode

- /exec

restart lisp

restart lisp

Syntax Description

restart	Manually restart a component
lisp	Restart the LISP Locator/ID Separation Protocol

Command Mode

- /exec

restart msdp

restart msdp

Syntax Description

restart	Manually restart a component
msdp	Restart the MSDP multicast routing protocol

Command Mode

- /exec

restart orib

restart orib

Syntax Description

restart	Manually restart a component
orib	OTV RIB (ORIB)

Command Mode

- /exec

restart ospf

restart ospf <tag>

Syntax Description

restart	Manually restart a component
ospf	Open Shortest Path First (OSPF)
<i>tag</i>	Process tag

Command Mode

- /exec

restart ospfv3

restart ospfv3 <tag>

Syntax Description

restart	Manually restart a component
ospfv3	Open Shortest Path First (OSPF) (Version 3)
<i>tag</i>	Process tag

Command Mode

- /exec

restart otv-isis

restart otv-isis <tag>

Syntax Description

restart	Manually restart a component
otv-isis	Intermediate System to Intermediate System (IS-IS)
<i>tag</i>	Routing process tag

Command Mode

- /exec

restart otv

restart otv

Syntax Description

restart	Manually restart a component
otv	Overlay Transport Virtualization (OTV)

Command Mode

- /exec

restart pim

restart pim

Syntax Description

restart	Manually restart a component
pim	Restart the PIM multicast routing protocol

Command Mode

- /exec

restart pim6

restart pim6

Syntax Description

restart	Manually restart a component
pim6	Restart the PIM6 multicast routing protocol

Command Mode

- /exec

restart rip

restart rip <tag>

Syntax Description

restart	Manually restart a component
rip	Routing Information Protocol (RIP)
<i>tag</i>	Process ID

Command Mode

- /exec

restart rpm

restart rpm

Syntax Description

restart	Manually restart a component
rpm	Route Policy Manager (RPM)

Command Mode

- /exec

restart rsvp

restart rsvp

Syntax Description

restart	Manually restart a process
rsvp	RSVP process

Command Mode

- /exec

resync-database

resync-database

Syntax Description

resync-database	Re-synchronize switch-profile database
-----------------	--

Command Mode

- /exec/configure

retain route-target all

[no] retain route-target { all | route-map <rmap-name> }

Syntax Description

no	(Optional) Negate a command or set its defaults
retain	Retain the routes based on Target VPN Extended Communities
route-target	Specify Target VPN Extended Communities
all	All the routes regardless of Target-VPN community
route-map	Apply route-map to filter routes
<i>rmap-name</i>	Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-af-ipv6
/exec/configure/router-bgp/router-bgp-af-link-state /exec/configure/router-bgp/router-bgp-af-l2vpn-evpn

retain route-target all

[no] retain route-target { all | route-map <rmap-name> }

Syntax Description

no	(Optional) Negate a command or set its defaults
retain	Retain the routes based on Target VPN Extended Communities
route-target	Specify Target VPN Extended Communities
all	All the routes regardless of Target-VPN community
route-map	Apply route-map to filter routes
<i>rmap-name</i>	Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-af-l2vpn-vpls

retransmit-interval

{ { retransmit-interval <interval> } | { no retransmit-interval [<interval>] } }

Syntax Description

no	Negate a command or set its defaults
retransmit-interval	Packet retransmission interval
<i>interval</i>	(seconds)

Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

retransmit-interval

{ { retransmit-interval <interval> } | { no retransmit-interval [<interval>] } }

Syntax Description

no	Negate a command or set its defaults
retransmit-interval	Packet retransmission interval
<i>interval</i>	(seconds)

Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

retransmit-interval

{ { retransmit-interval <interval> } | { no retransmit-interval [<interval>] } }

Syntax Description

no	Negate a command or set its defaults
retransmit-interval	Packet retransmission interval
<i>interval</i>	(seconds)

Command Mode

- /exec/configure/router-ospf3/router-ospf3-vlink /exec/configure/router-ospf3/vrf/router-ospf3-vlink

revision

revision <rev-id> | no revision [<rev-id>]

Syntax Description

no	Negate a command or set its defaults
revision	Set configuration revision number
<i>rev-id</i>	Configuration revision number

Command Mode

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

revocation-check crl

[no] revocation-check { crl [none] | none }

Syntax Description

no	(Optional) Negate a command or set its defaults
revocation-check	Configure trustpoint revocation check methods
crl	Configure revocation check using crl
none	(Optional) Configure revocation check using none
none	Configure revocation check using none

Command Mode

- /exec/configure/trustpoint

rewrite-evpn-rt-asn

[no | default] rewrite-evpn-rt-asn

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
rewrite-evpn-rt-asn	Auto generate RTs for EBGp neighbor in EVPN AF

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn

rfc1583compatibility

[no] rfc1583compatibility

Syntax Description

no	(Optional) Negate a command or set its defaults
rfc1583compatibility	Configure 1583 compatibility for external path preferences

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

rip shutdown

[no] rip shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
rip	RIP configuration commands
shutdown	Shutdown RIP on this interface

Command Mode

- /exec/configure/if-igp

rmdir

rmdir { <uri0> | <uri1> }

Syntax Description

rmdir	Delete a directory
<i>uri0</i>	Delete a directory
<i>uri1</i>	Delete a directory on expansion flash

Command Mode

- /exec

rmon alarm absolute rising-threshold falling-threshold

rmon alarm <i0> <s0> <i1> { absolute | delta } rising-threshold <i2> [<i3>] falling-threshold <i4> [<i5>] [owner <s1>] | no rmon alarm <i0>

Syntax Description

no	Negate a command or set its defaults
rmon	Remote Monitoring
alarm	Configure an RMON alarm
<i>i0</i>	Alarm number
<i>s0</i>	MIB object to monitor
<i>i1</i>	Sample interval
absolute	Test each sample directly
delta	Test delta between samples
rising-threshold	Configure the rising threshold
<i>i2</i>	Rising threshold value
<i>i3</i>	(Optional) Event to fire on rising threshold crossing
falling-threshold	Configure the falling threshold
<i>i4</i>	Falling threshold value
<i>i5</i>	(Optional) Event to fire on falling threshold crossing
owner	(Optional) Specify an owner for the alarm
<i>s1</i>	(Optional) Alarm owner

Command Mode

- /exec/configure

rmon event

rmon event <i0> [log] [trap <s0>] [description <s1>] [owner <s2>] | no rmon event <i0>

Syntax Description

no	Negate a command or set its defaults
rmon	Remote Monitoring
event	Configure an RMON event
<i>i0</i>	Event number
log	(Optional) Generate RMON log when the event fires
trap	(Optional) Generate SNMP trap when event fires
<i>s0</i>	(Optional) SNMP community string
description	(Optional) Specify a description of the event
<i>s1</i>	(Optional) Event description
owner	(Optional) Specify an owner for the event
<i>s2</i>	(Optional) Event owner

Command Mode

- /exec/configure

rmon hcalarm absolute startupalarm rising-threshold falling-threshold owner

rmon hcalarm <i0> <s0> <i1> { absolute | delta } startupalarm <i2> rising-threshold <i3> <i4> falling-threshold <i5> <i6> owner <s1> | no rmon hcalarm <i0>

Syntax Description

no	Negate a command or set its defaults
rmon	Remote Monitoring
hcalarm	Configure an High Capacity RMON alarm
<i>i0</i>	Alarm number
<i>s0</i>	MIB object to monitor
<i>i1</i>	Sample interval
absolute	Test each sample directly
delta	Test delta between samples
startupalarm	Configure alarm type
<i>i2</i>	Startup alarm type, rising(1) falling(2) risingorfalling(3)
rising-threshold	Configure the rising threshold
<i>i3</i>	Rising threshold value in bytes
<i>i4</i>	Event to fire on rising threshold crossing
falling-threshold	Configure the falling threshold
<i>i5</i>	Falling threshold value in bytes
<i>i6</i>	Event to fire on falling threshold crossing
owner	Specify an owner for the alarm
<i>s1</i>	Alarm owner

Command Mode

- /exec/configure

roaming-eid-prefix

```
{ [ no ] roaming-eid-prefix { <eid-prefix> | <eid-prefix6> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
roaming-eid-prefix	Configures what EID-prefixes allowed to roam
<i>eid-prefix</i>	IPv4 roaming EID-prefix

Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

role feature-group name

[no] role feature-group name <arg6>

Syntax Description

no	(Optional) Negate a command or set its defaults
role	Configure roles
feature-group	Configure role feature-group
name	Feature-group name
<i>arg6</i>	Enter feature-group name

Command Mode

- /exec/configure

role name

[no] role name <arg2>

Syntax Description

no	(Optional) Negate a command or set its defaults
role	Configure roles
name	Enter the role name
<i>arg2</i>	Enter the role name

Command Mode

- /exec/configure

role priority

role priority <priority_value> | no role priority

Syntax Description

no	Negate a command or set its defaults
role	Role related configuration
priority	Configure priority to be used during vPC role (primary/secondary) election
<i>priority_value</i>	specify priority value

Command Mode

- /exec/configure/vpc-domain

rollback progress stats

[no] rollback progress stats

Syntax Description

no	(Optional) negate the command
rollback	Rollback configuration
progress	Rollback progress
stats	Enable rollback progress stats

Command Mode

- /exec

rollback running-config checkpoint

```
rollback running-config { checkpoint <chkpoint_name> | file <file_uri> } [ best-effort | stop-at-first-failure | atomic ] [ verbose ]
```

Syntax Description

rollback	Rollback configuration
running-config	Rollback running configuration
checkpoint	Rollback running configuration to checkpoint
<i>chkpoint_name</i>	Checkpoint name
file	Rollback running configuration to configuration file
<i>file_uri</i>	Checkpoint file path
best-effort	(Optional) Skip errors and proceed with rollback
stop-at-first-failure	(Optional) Stop rollback at the first error
atomic	(Optional) Stop rollback and revert to original configuration (default)
verbose	(Optional) Show the execution log

Command Mode

- /exec

route-map

route-map <rtmap-name> [permit | deny]

Syntax Description

route-map	Create route-map or enter route-map command mode
<i>rtmap-name</i>	Route-map name
permit	(Optional) Route map permits set operations
deny	(Optional) Route map denies set operations

Command Mode

- /exec/configure

route-map

route-map <rtmap-name> [permit | deny] <seq>

Syntax Description

route-map	Create route-map or enter route-map command mode
<i>rtmap-name</i>	Route-map name
permit	(Optional) Route map permits set operations
deny	(Optional) Route map denies set operations
<i>seq</i>	Sequence to insert to/delete from existing route-map entry

Command Mode

- /exec/configure

route-map

[no] route-map { <rtmap-name> | <rtmap-name> } [permit | deny]

Syntax Description

no	Negate a command or set its defaults
route-map	Create route-map or enter route-map command mode
<i>rtmap-name</i>	Route-map name
<i>rtmap-name</i>	Known route-map name
permit	(Optional) Route map permits set operations
deny	(Optional) Route map denies set operations

Command Mode

- /exec/configure

route-map

[no] route-map { <rtmap-name> | <rtmap-name> } [permit | deny] <seq>

Syntax Description

no	Negate a command or set its defaults
route-map	Create route-map or enter route-map command mode
<i>rtmap-name</i>	Route-map name
<i>rtmap-name</i>	Known route-map name
permit	(Optional) Route map permits set operations
deny	(Optional) Route map denies set operations
<i>seq</i>	Sequence to insert to/delete from existing route-map entry

Command Mode

- /exec/configure

route-map out

[no | default] route-map <rmap-name> { out | in }

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
route-map	Apply route-map to neighbor
<i>rmap-name</i>	Route-map name
out	Apply policy to outgoing routes
in	Apply policy to incoming routes

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

route-map pbr-statistics

```
route-map <route-map-name> pbr-statistics | no route-map { <route-map-name> | <route-map-name> }  
pbr-statistics
```

Syntax Description

no	Negate a command or set its defaults
route-map	Create route-map or enter route-map command mode
<i>route-map-name</i>	Route-map name
<i>route-map-name</i>	Route-map name
<i>route-map-name</i>	Known route-map name
pbr-statistics	Statistics for policy based routing

Command Mode

- /exec/configure

route-reflector-client

[no | default] route-reflector-client

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
route-reflector-client	Configure a neighbor as Route reflector client

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
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- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-link-state
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

route-reflector-client

[no | default] route-reflector-client

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
route-reflector-client	Configure a neighbor as Route reflector client

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls

route-target both auto

```
{ route-target both { auto | <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } [ evpn | mvpn ] } | { no route-target
both [ auto [ evpn | mvpn ] | <ext-comm-rt-aa2nn4> [ evpn | mvpn ] | <ext-comm-rt-aa4nn2> [ evpn | mvpn
] ] }
```

Syntax Description

no	Negate a command or set its defaults
route-target	Specify Target VPN Extended Communities
both	Export And Import Target-VPN community
auto	Generate route target automatically
evpn	(Optional) Specify Target for EVPN routes
mvpn	(Optional) Specify Target for MVPN routes
<i>ext-comm-rt-aa4nn2</i>	RT extcommunity in aa4:nn or ip:nn format
<i>ext-comm-rt-aa2nn4</i>	RT extcommunity in aa:nn format

Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

route-target both auto

```
{ route-target both { auto | <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } } | { no route-target both { auto | <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } }
```

Syntax Description

no	Negate a command or set its defaults
route-target	Specify Target VPN Extended Communities
auto	Generate RT automatically
both	Export and Import Target-VPN community
<i>ext-comm-rt-aa4nn2</i>	RT extcommunity in aa4:nn or ip:nn format
<i>ext-comm-rt-aa2nn4</i>	RT extcommunity in aa:nn format

Command Mode

- /exec/configure/evpn/evi

route-target export

```
{ route-target export { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } [ evpn | mvpn ] } | { no route-target
export { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } [ evpn | mvpn ] }
```

Syntax Description

no	Negate a command or set its defaults
route-target	Specify Target VPN Extended Communities
export	Export Target-VPN community
evpn	(Optional) Specify Target for EVPN routes
mvpn	(Optional) Specify Target for MVPN routes
<i>ext-comm-rt-aa4nn2</i>	RT extcommunity in aa4:nn or ip:nn format
<i>ext-comm-rt-aa2nn4</i>	RT extcommunity in aa:nn format

Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

route-target export auto

```
{ route-target export { auto | <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } } | { no route-target export {
auto | <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } }
```

Syntax Description

no	Negate a command or set its defaults
route-target	Specify Target VPN Extended Communities
auto	Generate RT automatically
export	Export Target-VPN community
<i>ext-comm-rt-aa4nn2</i>	RT extcommunity in aa4:nn or ip:nn format
<i>ext-comm-rt-aa2nn4</i>	RT extcommunity in aa:nn format

Command Mode

- /exec/configure/evpn/evi

route-target import

```
{ route-target import { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } [ evpn | mvpn ] } | { no route-target
import { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } [ evpn | mvpn ] }
```

Syntax Description

no	Negate a command or set its defaults
route-target	Specify Target VPN Extended Communities
import	Import Target-VPN community
evpn	(Optional) Specify Target for EVPN routes
mvpn	(Optional) Specify Target for MVPN routes
<i>ext-comm-rt-aa4nn2</i>	RT extcommunity in aa4:nn or ip:nn format
<i>ext-comm-rt-aa2nn4</i>	RT extcommunity in aa:nn format

Command Mode

- /exec/configure/vrf-af-ipv4 /exec/configure/vrf-af-ipv6

route-target import auto

```
{ route-target import { auto | <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } } | { no route-target import
{ auto | <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } }
```

Syntax Description

no	Negate a command or set its defaults
route-target	Specify Target VPN Extended Communities
import	Import Target-VPN community
auto	Generate RT automatically
<i>ext-comm-rt-aa4nn2</i>	RT extcommunity in aa4:nn or ip:nn format
<i>ext-comm-rt-aa2nn4</i>	RT extcommunity in aa:nn format

Command Mode

- /exec/configure/evpn/evi

route delete dampen interval

[no] route delete dampen interval <time>

Syntax Description

no	(Optional) Negate a command or set its defaults
route	Display routing information
delete	Dampen route delete update to hardware
dampen	Dampen update to hardware
interval	Dampen interval
<i>time</i>	Dampen interval in seconds

Command Mode

- /exec/configure

router-guard ip multicast

[no] router-guard ip multicast [vlan <vlan_id>]

Syntax Description

no	(Optional) Negate a command or set its defaults
router-guard	Configures router guard for all interfaces
ip	Configure IP features
multicast	router-guard for multicast packet processing
vlan	(Optional) Configures router guard for specified vlan only(only in trunk ports)
<i>vlan_id</i>	(Optional) Specify vlan-id

Command Mode

- /exec/configure/if-switching

router-guard ip multicast switchports

[no] router-guard ip multicast switchports

Syntax Description

no	(Optional) Negate a command or set its defaults
router-guard	Configures router guard for all interfaces
ip	Configure IP features
multicast	router-guard for multicast packet processing
switchports	configures on all switchports globally

Command Mode

- /exec/configure

router-id

[no] router-id <router-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
router-id	Specify the IP address to use as router-id
<i>router-id</i>	Manually configured router identifier

Command Mode

- /exec/configure/router-bgp/vrf-cmds

router-id

{ { router-id <id> } | { no router-id [<id>] } }

Syntax Description

no	Negate a command or set its defaults
router-id	Set OSPF process router-id
<i>id</i>	Router ID Value

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

router-id

router-id [vrf { <vrf-name> | <vrf-known-name> }] <interface> [force] | no router-id [{ vrf { <vrf-name> | <vrf-known-name> } | <interface> [force] }]

Syntax Description

no	Negate a command or set its defaults
router-id	Select interface to prefer for LDP identifier address
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
<i>interface</i>	
force	(Optional) Forcibly change the LDP router id

Command Mode

- /exec/configure/ldp

router-id

```
{ { [ eigrp ] router-id <id> } | { no [ eigrp ] router-id [ <id> ] } }
```

Syntax Description

no	Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
router-id	router-id for this EIGRP process
<i>id</i>	EIGRP Router-ID in IP address format

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

router-id

{ { router-id <id> } | { no router-id [<id>] } }

Syntax Description

no	Negate a command or set its defaults
router-id	Set OSPFv3 process router-id
<i>id</i>	Router ID Value

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

router-preference maximum

[no] router-preference maximum <prefopts>

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>prefopts</i>	

Command Mode

- /exec/configure/config-ra-guard

router bgp

[no] router bgp <as>

Syntax Description

no	(Optional) Negate a command or set its defaults
router	Enable a routing process
bgp	Border Gateway Protocol (BGP)
as	Autonomous

Command Mode

- /exec/configure

router eigrp

[no] router eigrp <eigrp-ptag>

Syntax Description

no	(Optional) Negate a command or set its defaults
router	Enable a routing process
eigrp	Enhanced Interior Gateway Routing Protocol (EIGRP)
<i>eigrp-ptag</i>	Process tag

Command Mode

- /exec/configure

router isis

[no] router isis <tag>

Syntax Description

no	(Optional) Negate a command or set its defaults
router	Enable a routing process
isis	Intermediate System to Intermediate System (IS-IS)
<i>tag</i>	Routing process tag

Command Mode

- /exec/configure

router ospf

[no] router ospf <tag>

Syntax Description

no	(Optional) Negate a command or set its defaults
router	Enable a routing process
ospf	Open Shortest Path First (OSPF)
<i>tag</i>	Process tag

Command Mode

- /exec/configure

router ospfv3

[no] router ospfv3 <tag>

Syntax Description

no	(Optional) Negate a command or set its defaults
router	Enable a routing process
ospfv3	Open Shortest Path First (OSPF) (Version 3)
<i>tag</i>	Process tag

Command Mode

- /exec/configure

router rip

[no] router rip <tag>

Syntax Description

no	(Optional) Negate a command or set its defaults
router	Enable a routing process
rip	Routing Information Protocol (RIP)
<i>tag</i>	Process ID

Command Mode

- /exec/configure

routing-context vrf

routing-context vrf <vrf-known-name>

Syntax Description

routing-context	Set the routing context
vrf	The new routing-context VRF
<i>vrf-known-name</i>	Known VRF name

Command Mode

- /exec

routing ipv4 unicast nexthop-sorting

[no] routing ipv4 unicast nexthop-sorting

Syntax Description

no	(Optional) Negate a command or set its defaults
routing	Routing events
ipv4	IP events
unicast	unicast
nexthop-sorting	Sort nhs while storing

Command Mode

- /exec/configure

routing ipv6 unicast nexthop-sorting

[no] routing ipv6 unicast nexthop-sorting

Syntax Description

no	(Optional) Negate a command or set its defaults
routing	Routing events
ipv6	Configure IPv6 features
unicast	unicast
nexthop-sorting	Sort nhs while storing

Command Mode

- /exec/configure

rsakeypair

[no] rsakeypair <s0> [<i0>]

Syntax Description

no	(Optional) Negate a command or set its defaults
rsakeypair	Configure trustpoint rsa key-pair details
s0	key-pair label
i0	(Optional) key-pair size

Command Mode

- /exec/configure/trustpoint

rtr etr eid

[no] { rtr | etr | eid } { <locator> | <locator6> } [strict | probe] + <seq>

Syntax Description

no	(Optional) Negate a command or set its defaults
rtr	Configure RTR in ELP ordered list
etr	Configure ETR in ELP ordered list
eid	Configure EID in ELP ordered list
<i>locator</i>	IPv4 locator for RTR/ETR or EID
strict	(Optional) ELP hop must be used in Explicit Locator Path
probe	(Optional) RLOC-probe next-hop in ELP
<i>seq</i>	Sequence to insert or delete RTR/ETR/EID ELP entry

Command Mode

- /exec/configure/lisp-elp /exec/configure/vrf/lisp-elp

rule

```
rule <number> { <action> } { { <permission> [ <featuretype> <name> ] } } | no rule <number>
```

Syntax Description

<code>no</code>	Negate a command or set its defaults
<code>rule</code>	Enter the rule number
<i>number</i>	Enter the rule number
<i>action</i>	Action
<i>permission</i>	Permission
<i>featuretype</i>	(Optional) Feature type
<i>name</i>	(Optional) Enter the access entity name

Command Mode

- /exec/configure/role

rule command

rule <number> { <action> } { command <cmd_line> } | no rule <number>

Syntax Description

no	Negate a command or set its defaults
rule	Enter the rule number
<i>number</i>	Enter the rule number
<i>action</i>	Action
command	Command line
<i>cmd_line</i>	Enter the command (use space+' ' for command separator) e.g. config t role *

Command Mode

- /exec/configure/role

rule oid

rule <number> <action> <permission> oid <snmp_oid> | no rule <number>

Syntax Description

no	Negate a command or set its defaults
rule	Enter the rule number
<i>number</i>	Enter the rule number
<i>action</i>	Action
<i>permission</i>	Permission
oid	SNMP oid (up to 32 elements)
<i>snmp_oid</i>	Enter snmp oid instance name

Command Mode

- /exec/configure/role

run-script

run-script <uri0>

Syntax Description

run-script	Run shell scripts
<i>uri0</i>	Enter script file name

Command Mode

- /exec

run-show-tech-script

run-show-tech-script <s0>

Syntax Description

run-show-tech-script	Run show tech script
<i>s0</i>	fname

Command Mode

- /exec

run2 guestshell

```
run2 guestshell [ { <cmd_args> } ]
```

Syntax Description

run2	execute/run program!!!
guestshell	The guest shell Linux-bash
<i>cmd_args</i>	(Optional) The command to execute

Command Mode

- /exec

run bash

run bash [<cmd>]

Syntax Description

run	execute/run program
bash	linux-bash
<i>cmd</i>	(Optional) the command to execute

Command Mode

- /exec



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sak-expiry-time

[no] sak-expiry-time <ts>

Syntax Description

sak-expiry-time	Time in seconds to force SAK rekey
<i>ts</i>	time in seconds

Command Mode

- /exec/configure/masec-policy

sap hash-algorithm HMAC-SHA-1

{ [no] sap hash-algorithm HMAC-SHA-1 } | { sap hash-algorithm HMAC-MD5 }

Syntax Description

sap	Specify preferred SAP negotiation parameters
hash-algorithm	Hashing Algorithm to use during SAP protocol
HMAC-SHA-1	use HMAC-SHA-1 for hashing (default is HMAC-MD5)
HMAC-MD5	use HMAC-MD5 for hashing

Command Mode

- /exec/configure/cts-dot1x /exec/configure/cts-manual

sap modelist

[no] sap modelist <mode_opt>

Syntax Description

sap	Specify preferred SAP negotiation parameters
modelist	encryption mode
<i>mode_opt</i>	modelist options

Command Mode

- /exec/configure/cts-dot1x

sap pmk sap pmk use-dot1x

```
sap pmk <pmk> [ left-zero-padded ] [ modelist <mode_opt> ] | sap pmk use-dot1x [ modelist <mode_opt> ]
| no sap
```

Syntax Description

sap	Specify preferred SAP negotiation parameters
pmk	pairwise master key
<i>pmk</i>	32 byte value specified as a string
left-zero-padded	(Optional) Pad with zeros on the left if PMK length is less than 32 bytes
modelist	(Optional) encryption mode
<i>mode_opt</i>	(Optional) modelist options
<i>modelist</i>	(Optional) <mode_opt>
use-dot1x	Use pmk generated after dot1x authentication. Use dot1x commands to configure dot1x on this port

Command Mode

- /exec/configure/cts-manual

save

save <uri0>

Syntax Description

save	Save the current configuration session to uri
<i>uri0</i>	Enter the complete uri where the session is to be stored

Command Mode

- /exec/configure

scale-factor module

[no] scale-factor <sf-value> module <module-number>

Syntax Description

no	(Optional) Negate a command or set its defaults
scale-factor	Scale factor
<i>sf-value</i>	Specify scale factor value from 0.10 to 2.00
module	Module
<i>module-number</i>	specify module number

Command Mode

- /exec/configure/ctrl-plane

scheduler aaa-authentication

```
{ scheduler aaa-authentication { password { 0 <s0> | 7 <s1> | <s2> } | username <s3> password { 01 <s4> | 71 <s5> | <s6> } } | no scheduler aaa-authentication { password [ { 0 <s0> | 7 <s1> | <s2> } ] | username <s3> password [ { 01 <s4> | 71 <s5> | <s6> } ] } }
```

Syntax Description

no	Negate a command or set its defaults
scheduler	Config commands for scheduler
aaa-authentication	Password for AAA authentication(of logged in user)
password	Specify the password of logged in user(for AAA authentication)
0	Password (clear text) of logged in user
s0	password (clear text) of logged in user
7	Encrypted password of logged in user
s1	Encrypted password (for AAA authentication)
s2	Password (clear text) of logged in user
username	logged in user name
s3	user name (for AAA authentication)
password	Specify the password of logged in user(for AAA authentication)
01	Password (clear text) of logged in user
s4	password (clear text) of logged in user
71	Encrypted password of logged in user
s5	Encrypted password (for AAA authentication)
s6	Password (clear text) of logged in user

Command Mode

- /exec/configure

scheduler enable

[no] scheduler enable

Syntax Description

no	(Optional) Negate a command or set its defaults
scheduler	Config commands for scheduler
enable	Command to enable/disable features

Command Mode

- /exec/configure

scheduler job name

[no] scheduler job name <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
scheduler	Config commands for scheduler
job	Define a job
name	Specify a name for the job
s0	Name of the job

Command Mode

- /exec/configure

scheduler logfile size

{ scheduler logfile size <i0> | no scheduler logfile size [<i0>] }

Syntax Description

no	Negate a command or set its defaults
scheduler	Config commands for scheduler
logfile	Scheduler log file configuration
size	Specify the log file size
<i>i0</i>	Size of the file in KB

Command Mode

- /exec/configure

scheduler schedule name

[no] scheduler schedule name <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
scheduler	Config commands for scheduler
schedule	Define a schedule
name	Specify a name for the schedule
s0	Name of the schedule

Command Mode

- /exec/configure

scheduler transport email

```
{ scheduler transport email { from <s0> | reply-to <s1> | smtp-server <host0> [ port <i1> ] } | no scheduler transport email { from | reply-to | smtp-server } }
```

Syntax Description

no	Negate a command or set its defaults
scheduler	Config commands for scheduler
transport	Configure transport related configuration
email	Configure email transport related configuration
from	Configure from email address
s0	Provide from email address, example: SJ-9500-1@xyz.com
reply-to	Configure replyto email address
s1	Provide reply-to email address, example: admin@xyz.com
smtp-server	Configure SMTP server address
host0	SMTP server(DNS name or IPv4 or IPv6 address)
port	(Optional) Configure SMTP server port (default:25)
i1	(Optional) SMTP server port

Command Mode

- /exec/configure

scp

scp [<recurse>] <from> [<hyphen>] <src-path>

Syntax Description

scp	Launch scp subsystem
<i>recurse</i>	(Optional) -r recurse
<i>from</i>	-f scp from
<i>hyphen</i>	(Optional) --
<i>src-path</i>	from URL

Command Mode

- /exec

scp

scp [<recurse>] [<directory>] [<verbose>] <to> [<hyphen>] <dst-path>

Syntax Description

scp	Launch scp subsystem
<i>recurse</i>	(Optional) -r recurse
<i>directory</i>	(Optional) -d directory
<i>verbose</i>	(Optional) -v verbose
<i>to</i>	-t scp to
<i>hyphen</i>	(Optional) --
<i>dst-path</i>	to URL

Command Mode

- /exec

scripting tcl init

scripting tcl init <uri0> | no scripting tcl init

Syntax Description

no	Negate a command or set its defaults
scripting	Configure scripting parameters
tcl	Specify scripting parameter for tcl
init	Specify init parameters
<i>uri0</i>	Tcl init script name

Command Mode

- /exec

scripting tcl recursion-limit

scripting tcl recursion-limit <limit> | no scripting tcl recursion-limit

Syntax Description

no	Negate a command or set its defaults
scripting	Configure scripting parameters
tcl	Specify scripting parameter for tcl
recursion-limit	Specify recursion-limit
<i>limit</i>	Specify limit

Command Mode

- /exec

search

search <failure_desc>

Syntax Description

search	Search for information
<i>failure_desc</i>	Brief problem description

Command Mode

- /exec

section

| section <pattern>

Syntax Description

	Pipe command output to filter
section	show lines that include the pattern as well as the subsequent lines that are more indented than matching line
<i>pattern</i>	the pattern (regular expression) to match

Command Mode

- /output

secure-handoff

{ [no] secure-handoff }

Syntax Description

no	(Optional) Negate a command or set its defaults
secure-handoff	Confirm dynamic-eid discovery by probing for remote host

Command Mode

- /exec/configure/lisp-dynamic-eid /exec/configure/vrf/lisp-dynamic-eid

security-level

[no] security-level <seclvl>

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>seclvl</i>	

Command Mode

- /exec/configure/config-snoop-policy

security-policy

[no] security-policy <policy>

Syntax Description

security-policy	Configure Security policy
<i>policy</i>	Security Policy options

Command Mode

- /exec/configure/masec-policy

sed

| sed [-n] + <expr>

Syntax Description

	Pipe command output to filter
sed	Stream Editor
-n	(Optional) suppress automatic printing of pattern space
<i>expr</i>	Edition command (script)

Command Mode

- /output

segment-routing mpls

[no] segment-routing mpls

Syntax Description

no	(Optional) Negate a command or set its defaults
segment-routing	segment-routing properties
mpls	MPLS configuration commands

Command Mode

- /exec/configure

send-community

[no | default] send-community [both | standard]

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
send-community	Send Community attribute to this neighbor
both	(Optional) Send Standard and Extended Community attributes
standard	(Optional) Send Standard Community attribute

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-link-state
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

send-community

[no | default] send-community [both | extended | standard]

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
send-community	Send Community attribute to this neighbor
both	(Optional) Send Standard and Extended Community attributes
extended	(Optional) Send Extended Community attribute
standard	(Optional) Send Standard Community attribute

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls

send-community extended

[no | default] send-community extended

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
send-community	Send Community attribute to this neighbor
extended	Send Extended Community attribute

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-mvpn
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-link-state
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

```
send-lifetime month_a month_b month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l duration infinite month_a month_b
month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l
```

send-lifetime month_a month_b month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l duration infinite month_a month_b month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l

```
{ { send-lifetime [ local ] <stime> { month_a | month_b | month_c | month_d | month_e | month_f | month_g
| month_h | month_i | month_j | month_k | month_l } <sdays> <syyear> { duration <dsec> | infinite | <etime>
{ month_a | month_b | month_c | month_d | month_e | month_f | month_g | month_h | month_i | month_j |
month_k | month_l } <eday> <eyear> } } | { no send-lifetime [ [ local ] <stime> { month_a | month_b | month_c
| month_d | month_e | month_f | month_g | month_h | month_i | month_j | month_k | month_l } <sdays> <syyear>
{ duration <dsec> | infinite | <etime> { month_a | month_b | month_c | month_d | month_e | month_f | month_g
| month_h | month_i | month_j | month_k | month_l } <eday> <eyear> } ] } }
```

Syntax Description

no	Negate a command or set its defaults
send-lifetime	Set send lifetime of key
local	(Optional) Specify time in local timezone
<i>stime</i>	HH:MM:SS Time to start <0-23>:<0-59>:<0-59>
<i>etime</i>	HH:MM:SS Time to end <0-23>:<0-59>:<0-59>
month_a	
month_b	
month_c	
month_d	
month_e	
month_f	
month_g	
month_h	
month_i	
month_j	
month_k	
month_l	
<i>sdays</i>	Day of the month to start

send-lifetime month_a month_b month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l duration infinite month_a month_b month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l

<i>eday</i>	Day of the month to end
<i>syear</i>	Year to start
<i>eyear</i>	Year to end
duration	Set key lifetime duration
<i>dsec</i>	Duration in seconds
infinite	Never Expires

Command Mode

- /exec/configure/keychain-key

```
send-lifetime month_a month_b month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l duration infinite month_a month_b
month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l
```

send-lifetime month_a month_b month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l duration infinite month_a month_b month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l

```
{ { send-lifetime [ local ] <stime> { month_a | month_b | month_c | month_d | month_e | month_f | month_g
| month_h | month_i | month_j | month_k | month_l } <sdays> <year> { duration <dsec> | infinite | <etime>
{ month_a | month_b | month_c | month_d | month_e | month_f | month_g | month_h | month_i | month_j |
month_k | month_l } <eday> <eyear> } } | { no send-lifetime [ [ local ] <stime> { month_a | month_b | month_c
| month_d | month_e | month_f | month_g | month_h | month_i | month_j | month_k | month_l } <sdays> <year>
{ duration <dsec> | infinite | <etime> { month_a | month_b | month_c | month_d | month_e | month_f | month_g
| month_h | month_i | month_j | month_k | month_l } <eday> <eyear> } ] } }
```

Syntax Description

no	Negate a command or set its defaults
send-lifetime	Set send lifetime of macsec key
local	(Optional) Specify time in local timezone
<i>stime</i>	HH:MM:SS Time to start <0-23>:<0-59>:<0-59>
<i>etime</i>	HH:MM:SS Time to end <0-23>:<0-59>:<0-59>
month_a	
month_b	
month_c	
month_d	
month_e	
month_f	
month_g	
month_h	
month_i	
month_j	
month_k	
month_l	
<i>sdays</i>	Day of the month to start

send-lifetime month_a month_b month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l duration infinite month_a month_b month_c month_d month_e month_f month_g month_h month_i month_j month_k month_l

<i>eday</i>	Day of the month to end
<i>syear</i>	Year to start
<i>eyear</i>	Year to end
duration	Set key lifetime duration
<i>dsec</i>	Duration in seconds
infinite	Never Expires

Command Mode

- /exec/configure/macseckeychain-key

send

send <line>

Syntax Description

send	Send message to open sessions
<i>line</i>	Send message (a line) to all open sessions

Command Mode

- /exec

send session

send session <s0> <line>

Syntax Description

send	Send message to open sessions
session	Send message to specific session
<i>s0</i>	Specify pts/tty device type
<i>line</i>	Enter a one line message

Command Mode

- /exec

sensor-group

[no] sensor-group <sgrp-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
sensor-group	Create a sensor group
<i>sgrp-id</i>	Identifier

Command Mode

- /exec/configure/telemetry

server

[no] server <hostipname>

Syntax Description

no	(Optional) Negate a command or set its defaults
server	RADIUS server name or IP address
<i>hostipname</i>	IPV4/IPV6 address or DNS name

Command Mode

- /exec/configure/radius

server

[no] server <host0>

Syntax Description

no	(Optional) Negate a command or set its defaults
server	LDAP server name
<i>host0</i>	LDAP server name

Command Mode

- /exec/configure/ldap

server

[no] server { <hostname> }

Syntax Description

no	(Optional) Negate a command or set its defaults
server	TACACS+ server name or IP address
<i>hostname</i>	IPV4/IPV6 address or DNS name

Command Mode

- /exec/configure/tacacs+

server protocol ldap

```
[no] server protocol ldap { ipv6 <ipv6addr> | ip <ipaddr> | host <hostname> } [ port <portnum> ] [ vrf { <vrf-name> | <vrf-known-name> } ] [ enable-ssl ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
server	Configure database server
protocol	Configure database protocol
ldap	Use LDAP
ipv6	IPv6 address of server
ip	IP address of server
<i>ipaddr</i>	Enter IP address of server
host	Hostname of server
<i>hostname</i>	Enter hostname of server
port	(Optional) Port
<i>portnum</i>	(Optional) Enter port number
vrf	(Optional) vrf context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
enable-ssl	(Optional) LDAP server enable ssl

Command Mode

- /exec/configure/fabric-db

server protocol radius group

[no] server protocol radius group <groupname>

Syntax Description

no	(Optional) Negate a command or set its defaults
server	Configure database server
protocol	Configure database protocol
radius	Use RADIUS
group	AAA group
<i>groupname</i>	Enter AAA group name of servers

Command Mode

- /exec/configure/fabric-db

server protocol xmpp ip

```
[no] server protocol xmpp { ip <ipaddr> | host <hostname> } [ port <portnum> ] [ vrf { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
server	Configure database server
protocol	Configure database protocol
xmpp	Use XMPP
ip	IP address of server
<i>ipaddr</i>	Enter IP address of server
host	Hostname of server
<i>hostname</i>	Enter hostname of server
port	(Optional) Port
<i>portnum</i>	(Optional) Enter port number
vrf	(Optional) vrf context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name

Command Mode

- /exec/configure/fabric-db

service-policy

[no] service-policy [type qos] <inp-or-out> <pmap-name-qos> [no-stats]

Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Configure service policy for an interface
type	(Optional) Specify the type of this policy
qos	(Optional) Qos policy
<i>inp-or-out</i>	
<i>pmap-name-qos</i>	Policy-map name __nil__ You must create a policy-map before using this command
no-stats	(Optional) Disable statistics for this policy

Command Mode

- /exec/configure/if-set-qos /exec/configure/if-remote-ethernet /exec/configure/if-remote-ethernet-switch /exec/configure/if-fc

service-policy

[no] service-policy [type qos] <inp-or-out> <pmap-name-qos> [no-stats]

Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Configure service policy for an interface
type	(Optional) Specify the type of this policy
qos	(Optional) Qos policy
<i>inp-or-out</i>	
<i>pmap-name-qos</i>	Policy-map name __nil__ You must create a policy-map before using this command
no-stats	(Optional) Disable statistics for this policy

Command Mode

- /exec/configure/vlan

service-policy

[no] service-policy [type qos] <pmap-name-qos>

Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Configure hierarchial policy-map
type	(Optional) Specify the type of this policy
qos	(Optional) Qos policy
<i>pmap-name-qos</i>	Policy-map name

Command Mode

- /exec/configure/policy-map/class

service-policy input

[no] service-policy input <policy_name>

Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Attach a policy to control-plane interface
input	Input the policy name
<i>policy_name</i>	Name of the policy

Command Mode

- /exec/configure/ctrl-plane

service-policy type network-qos

[no] service-policy type network-qos <pmap-name-nq>

Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Policy Map
type	Specify the type of this policy-map
network-qos	Network QoS policy
<i>pmap-name-nq</i>	Policy-map name

Command Mode

- /exec/configure/system/qos

service-policy type psp

```
[no] service-policy type psp <inp-or-out> { <pmap-name-plc> | { handle <ppf_id> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Configure service policy for an interface
type	Specify the type of this policy
psp	PSP policy
<i>inp-or-out</i>	
<i>pmap-name-plc</i>	Policy-map name __nil__ You must create a policy-map before using this command
handle	Handle
<i>ppf_id</i>	PPF ID

Command Mode

- /exec/configure/if-set-qos

service-policy type qos

[no] service-policy type qos <inp-only> <pmap-name-qos>

Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Policy Map
type	Specify the type of this policy-map
qos	System-level QoS policy
<i>inp-only</i>	
<i>pmap-name-qos</i>	Policy-map name __nil__ You must create a policy-map before using this command

Command Mode

- /exec/configure/system/qos

service-policy type queuing

[no] service-policy type queuing <inp-or-out> <pmap-name-que> [no-stats]

Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Configure service policy for an interface
type	Specify the type of this policy
queuing	Queuing policy
<i>inp-or-out</i>	
<i>pmap-name-que</i>	Policy-map name
no-stats	(Optional) Disable statistics for this policy

Command Mode

- /exec/configure/if-set-que

service-policy type queuing

[no] service-policy type queuing <pmap-name-que>

Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Set the inner policy-map
type	Specify the type of this policy
queuing	Queuing policy
<i>pmap-name-que</i>	Policy-map name __nil__ You must create a policy-map before using this command

Command Mode

- /exec/configure/policy-map/type/queuing/class

service-policy type queuing

[no] service-policy type queuing <inp-or-out> <pmap-name-que>

Syntax Description

no	(Optional) Negate a command or set its defaults
service-policy	Policy Map
type	Specify the type of this policy-map
queuing	DCE Queuing policy
<i>inp-or-out</i>	
<i>pmap-name-que</i>	Policy-map name

Command Mode

- /exec/configure/system/qos

service dhcp

[no] service dhcp

Syntax Description

no	(Optional) Negate a command or set its defaults
service	Modify use of network based services
dhcp	Enable DHCP relay agent

Command Mode

- /exec/configure

service password-recovery

[no] service password-recovery

Syntax Description

no	(Optional) Negate a command or set its defaults
service	Service
password-recovery	Configure password-recovery option of console

Command Mode

- /exec/configure

service set

[no] service set <onep-service-set>

Syntax Description

no	(Optional) Negate a command or set its defaults
service	ONEP service set
set	ONEP service set
<i>onep-service-set</i>	service name

Command Mode

- /exec/configure/onep

service tag

```
{ service tag <tag-id> } | { no service tag }
```

Syntax Description

no	Negate a command or set its defaults
service	Configure ngoam service
tag	Configure ngoam service tag
<i>tag-id</i>	Configure ngoam service tag id

Command Mode

- /exec/configure/configngoamprofile

service unsupported-transceiver

[no] service unsupported-transceiver

Syntax Description

no	(Optional) Negate a command or set its defaults
service	Serviceability Commands
unsupported-transceiver	Configure support for transceivers not supported by Cisco

Command Mode

- /exec/configure

session-limit

[no] session-limit <*i0*>

Syntax Description

no	(Optional) Negate a command or set its defaults
session-limit	Set the max no of concurrent vsh sessions
<i>i0</i>	Max concurrent vsh sessions

Command Mode

- /exec/configure/line

session domain-lookup

session domain-lookup | no session domain-lookup

Syntax Description

session	Configure session preferences
no	Negate a command or set its defaults
domain-lookup	Session

Command Mode

- /exec

session key-required

[no] session key-required

Syntax Description

no	Negate a command or set its defaults
session	One Platform session
key-required	Disable session key

Command Mode

- /exec/configure/onep

session max

session max <onep-maxsess>

Syntax Description

session	One Platform session
max	Maximum number of sessions
<i>onep-maxsess</i>	Number of sessions

Command Mode

- /exec/configure/onep

session max

[no] session max [<onep-maxsess>]

Syntax Description

no	Negate a command or set its defaults
session	One Platform session
max	Maximum number of sessions
<i>onep-maxsess</i>	(Optional) Number of sessions

Command Mode

- /exec/configure/onep

session protection

```
[no] session protection [ vrf { <vrf-name> | <vrf-known-name> } ] [ for <pfx-list> ] [ duration { <secs> | infinite } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
session	Configure session parameters
protection	Configure session protection parameters
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
for	(Optional) Prefix list to specify LDP peers
<i>pfx-list</i>	(Optional) Prefix list for LDP peers
duration	(Optional) Period to sustain session protection after loss of link discovery
<i>secs</i>	(Optional) Holdup time in seconds
infinite	(Optional) Protect session forever after loss of link discovery

Command Mode

- /exec/configure/ldp

set-attached-bit

[no] set-attached-bit

Syntax Description

no	(Optional) Negate a command or set its defaults
set-attached-bit	Configure L1 L2 router to set/unset attached bit in its L1 LSP

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv6

set-overload-bit

```
[no] set-overload-bit | [ no ] set-overload-bit { always | on-startup { <secs> | [ <seconds> ] wait-for bgp <as>
} } [ suppress { [ interlevel ] [ external ] } ]
```

Syntax Description

no	Negate a command or set its defaults
set-overload-bit	Signal other routers not to use us for transit
always	Set the overload bit unconditionally
on-startup	Set the overload bit on IS-IS startup
<i>secs</i>	Clear the overload bit after an elapsed time in seconds
wait-for	Clear the overload bit when notified by a specific protocol
bgp	Border Gateway Protocol (BGP)
<i>seconds</i>	(Optional) Clear the overload bit after an elapsed time in seconds
<i>as</i>	Autonomous system number
suppress	(Optional) Suppress route redistribution if overload bit set
interlevel	(Optional) Suppress interlevel route redistribution
external	(Optional) Suppress external route redistribution

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

set

set <paramname> <paramval>

Syntax Description

set	Set the parameter value
<i>paramname</i>	Enter the name of the parameter
<i>paramval</i>	Enter the parameter value

Command Mode

- /exec/configure/param-inst

set

```
[no] set { { cos <cos-val> } | { eth-src-mac-addr <src-mac-addr> } | { eth-dest-mac-addr <dest-mac-addr> }
| { vlan <vlan-number> } | { ip-tos <ip-tos-value> <ip-tos-mask> } | { out-interface <iface-list> } | { dscp [
tunnel ] { <dscp-val> | <dscp-enum> } } | { precedence [ prec-tunnel ] { <prec-val> | <prec-enum> } } | {
discard-class <dis-class-val> } | { qos-group <qos-grp-val> } | { { { cos1 cos2 } | { dscp1 dscp2 } | { prec1
prec2 } | { dis-class1 dis-class2 } | { dscp3 mpls-exp-imposition } | { mpls-exp-topmost dscp4 } | {
mpls-exp-topmost1 mpls-exp-topmost2 } } } | { mpls experimental { { topmost <exp-value> } | { imposition
<exp-value-imp> } } } | action-strip-vlan | action-drop-pkt | divert-action | copy-action | action-decrement-ttl
| forward-normal | goto-pmap <pmap-table-handle> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set attribute
cos	IEEE 802.1Q class of service
cos1	IEEE 802.1Q class of service
cos2	IEEE 802.1Q class of service
<i>cos-val</i>	802.1Q Class of Service value
eth-dest-mac-addr	Action on Layer 2 destination MAC address
eth-src-mac-addr	Action on Layer 2 source MAC address
<i>src-mac-addr</i>	Layer 2 MAC Address
<i>dest-mac-addr</i>	Layer 2 MAC Address
vlan	Set the VLAN ID
<i>vlan-number</i>	VLAN NUMBER
ip-tos	Set the IPv4 TOS
<i>ip-tos-value</i>	IPv4 TOS Value
<i>ip-tos-mask</i>	IPV4 TOS Mask
out-interface	Output to a Specified Interface
<i>iface-list</i>	Physical Interface Name and Number or List
action-strip-vlan	Perform the action STRIP-VLAN-ID
action-drop-pkt	Perform the action Drop the Packet
divert-action	Divert the packets to Controller
copy-action	Copy the packets to Controller

action-decrement-ttl	Decrement TTL on the Packet
forward-normal	Forward the packets normally
goto-pmap	Goto pmap/table
<i>pmap-table-handle</i>	Pmap-table handle
dscp	DSCP in IP(v4) and IPv6 packets
dscp1	DSCP in IP(v4) and IPv6 packets
dscp2	DSCP in IP(v4) and IPv6 packets
tunnel	(Optional) Set DSCP in tunnel encapsulation
<i>dscp-val</i>	DSCP value
<i>dscp-enum</i>	
precedence	Precedence in IP(v4) and IPv6 packets
prec1	Precedence in IP(v4) and IPv6 packets
prec2	Precedence in IP(v4) and IPv6 packets
prec-tunnel	(Optional) Set Precedence in tunnel encapsulation
<i>prec-val</i>	IP Precedence value
<i>prec-enum</i>	
discard-class	Discard class
dis-class1	Discard class
dis-class2	Discard class
<i>dis-class-val</i>	Discard class value
qos-group	Qos-group
<i>qos-grp-val</i>	Qos-group value
mpls	Set MPLS label
experimental	Set MPLS experimental label
topmost	Set MPLS topmost label
imposition	Push the label and set new one on top
<i>exp-value</i>	MPLS value
<i>exp-value-imp</i>	MPLS value
dscp3	DSCP in IP(v4) and IPv6 packets

mpls-exp-imposition	mpls-exp-imposition
mpls-exp-topmost	mpls-exp-topmost
dscp4	DSCP in IP(v4) and IPv6 packets
mpls-exp-topmost1	mpls-exp-topmost
mpls-exp-topmost2	mpls-exp-topmost

Command Mode

- /exec/configure/policy-map/type/plc/class

set

```
[no] set { { cos [ inner ] <cos-val> } | { dscp [ tunnel ] { <dscp-val> | <opt_set_dscp> } } | { precedence [
tunnel1 ] { <prec-val> | <opt_set_prec> } } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set attribute
cos	IEEE 802.1Q class of service
inner	(Optional) Set inner 802.1Q class of service in QinQ environment
<i>cos-val</i>	802.1Q Class of Service value
dscp	DSCP in IP(v4) and IPv6 packets
tunnel	(Optional) Set DSCP in tunnel encapsulation
<i>dscp-val</i>	DSCP value
<i>opt_set_dscp</i>	
precedence	Precedence in IP(v4) and IPv6 packets
tunnel1	(Optional) Set DSCP in tunnel encapsulation
<i>prec-val</i>	IP Precedence value
<i>opt_set_prec</i>	

Command Mode

- /exec/configure/pmap/class

set

```
[no] set { { dlb-disable } | { precedence [ prec-tunnel ] { <prec-val> | <prec-enum> } } | { dscp [ tunnel ] { <dscp-val> | <dscp-enum> } } | { cos <cos-val> } | { qos-group <qos-grp-val> } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set attribute
dlb-disable	Disable Dynamic Load Balancing
precedence	Precedence in IP(v4) and IPv6 packets
prec-tunnel	(Optional) Set Precedence in tunnel encapsulation
<i>prec-val</i>	IP Precedence value
<i>prec-enum</i>	
dscp	DSCP in IP(v4) and IPv6 packets
tunnel	(Optional) Set DSCP in tunnel encapsulation
<i>dscp-val</i>	DSCP value
<i>dscp-enum</i>	
cos	IEEE 802.1Q Class of Service
<i>cos-val</i>	802.1Q Class of Service value
qos-group	Qos-group
<i>qos-grp-val</i>	

Command Mode

- /exec/configure/policy-map/class

set

```
[no] set { { discard-class <dis-class-val> } | { { { cos1 cos2 } | { dscp1 dscp2 } | { prec1 prec2 } | { dis-class1
dis-class2 } | { dscp3 mpls-exp-imposition } | { mpls-exp-topmost dscp4 } | { mpls-exp-topmost1
mpls-exp-topmost2 } } table <table-map-name> } | { mpls experimental { { topmost <exp-value> } | {
imposition <exp-value-imp> } } } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set attribute
cos1	IEEE 802.1Q class of service
cos2	IEEE 802.1Q class of service
dscp1	DSCP in IP(v4) and IPv6 packets
dscp2	DSCP in IP(v4) and IPv6 packets
prec1	Precedence in IP(v4) and IPv6 packets
prec2	Precedence in IP(v4) and IPv6 packets
discard-class	Discard class
dis-class1	Discard class
dis-class2	Discard class
<i>dis-class-val</i>	Discard class value
table	Table defining mapping from input to output
<i>table-map-name</i>	Table-map name
mpls	Set MPLS label
experimental	Set MPLS experimental label
topmost	Set MPLS topmost label
imposition	Push the label and set new one on top
<i>exp-value</i>	MPLS value
<i>exp-value-imp</i>	MPLS value
dscp3	DSCP in IP(v4) and IPv6 packets
mpls-exp-imposition	mpls-exp-imposition
mpls-exp-topmost	mpls-exp-topmost

dscp4	DSCP in IP(v4) and IPv6 packets
mpls-exp-topmost1	mpls-exp-topmost
mpls-exp-topmost2	mpls-exp-topmost

Command Mode

- /exec/configure/policy-map/class

set

[no] set { load-sharing per-packet }

Syntax Description

set	Set attribute
load-sharing	Load sharing across ECMP by set out-of-order bit
per-packet	per MiM packet
no	(Optional) Negate a command or set its defaults

Command Mode

- /exec/configure/policy-map/class

set as-path prepend last-as tag

```
{ set as-path { prepend { last-as <lastas> | <as> + } | tag } } | { no set as-path { prepend [ last-as [ <lastas> ] | <as> + ] | tag } }
```

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
as-path	Prepend string for a BGP AS-path attribute
prepend	Prepend to the AS-Path
last-as	Prepend last AS to the as-path
<i>lastas</i>	number of last-AS prepends
<i>as</i>	AS number
tag	Set the tag as an AS-path attribute
<i>as</i>	(Optional)

Command Mode

- /exec/configure/route-map

set comm-list delete

```
{ { set comm-list <name> delete } | { no set comm-list } }
```

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
comm-list	set BGP community list (for deletion)
<i>name</i>	Community list name
delete	Delete matching communities

Command Mode

- /exec/configure/route-map

set community none additive internet local-AS

```
{ set community { none | { additive | internet | local-AS | no-advertise | no-export | <hex_num> | <number>
| <community> } + } } | { no set community [ { none | { additive | internet | local-AS | no-advertise | no-export
| <hex_num> | <number> | <community> } + } ] }
```

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
community	Set BGP community attribute
additive	Add to existing community
internet	Internet (well-known community)
local-AS	Do not send outside local AS (well-known community)
no-advertise	Do not advertise to any peer (well-known community)
no-export	Do not export to next AS (well-known community)
none	No community attribute
<i>number</i>	Community number
<i>hex_num</i>	Community number in hex
<i>community</i>	Community number aa:nn format
<i>additive</i>	(Optional) internet

Command Mode

- /exec/configure/route-map

set cos

[no] set cos <cos-val>

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set attribute
cos	IEEE 802.1Q Class of Service
<i>cos-val</i>	802.1Q Class of Service value

Command Mode

- /exec/configure/policy-map/type/queuing/class

set cos

[no] set cos <cos-val>

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set attribute
cos	IEEE 802.1Q class of service
<i>cos-val</i>	802.1Q Class of Service value

Command Mode

- /exec/configure/policy-map/type/uf/class

set dampening

```
{ set dampening <half-life> <reuse> <supress> <duration> } | { no set dampening [ <half-life> <reuse> <supress> <duration> ] }
```

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
dampening	Set BGP route flap dampening parameters
<i>half-life</i>	half-life time for the penalty
<i>reuse</i>	penalty to start reusing a route
<i>supress</i>	penalty to start suppressing a route
<i>duration</i>	Maximum duration to suppress a stable route

Command Mode

- /exec/configure/route-map

set distance

{ set distance <external-dist> [<internal-dist> [<local-dist>]] } | { no set distance }

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
distance	Set the Administrative distance of route
<i>external-dist</i>	Administrative distance for IGP or EBGp routes
<i>internal-dist</i>	(Optional) Administrative distance for internal routes
<i>local-dist</i>	(Optional) Administrative distance for local routes

Command Mode

- /exec/configure/route-map

set extcomm-list delete

```
{ { set extcomm-list <name> delete } | { no set extcomm-list [ <name> delete ] } }
```

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
extcomm-list	set BGP extcommunity list (for deletion)
<i>name</i>	Extended Community list name
delete	Delete matching extcommunities

Command Mode

- /exec/configure/route-map

set extcommunity 4byteas-generic transitive additive

```
{ set extcommunity 4byteas-generic { { transitive <ext-comm-gen-trans> | non-transitive
<ext-comm-gen-nontrans> } + [ additive ] | additive | none } } | { no set extcommunity 4byteas-generic [ {
transitive <ext-comm-gen-trans> | non-transitive <ext-comm-gen-nontrans> } + [ additive ] | additive | none
] }
```

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
extcommunity	Set BGP extcommunity attribute
4byteas-generic	Generic extended community
additive	(Optional) Add to existing generic extcommunity
none	No extcommunity generic attribute
transitive	Transitive extended community
non-transitive	Non-Transitive extended community
<i>ext-comm-gen-trans</i>	Extcommunity number aa4:nn format
<i>ext-comm-gen-nontrans</i>	Extcommunity number aa4:nn format
<i>ext-comm-gen-trans</i>	(Optional) <ext-comm-gen-nontrans>

Command Mode

- /exec/configure/route-map

set extcommunity additive

{ set extcommunity { additive | none } } | { no set extcommunity [additive | none] }

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
extcommunity	Set BGP extcommunity attribute
additive	Add to existing generic extcommunity
none	No extcommunity attribute

Command Mode

- /exec/configure/route-map

set extcommunity cost

```
{ set extcommunity cost { [ igp | pre-bestpath ] <comm-id> <cost-value> } + } | { no set extcommunity cost
[ [ igp | pre-bestpath ] <comm-id> <cost-value> ] + }
```

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
extcommunity	Set BGP extcommunity attribute
cost	Cost
igp	(Optional) Compare following IGP cost comparison
pre-bestpath	(Optional) Compare before all other steps in bestpath calculation
<i>comm-id</i>	Community ID
<i>cost-value</i>	Cost Community value
<i>comm-id</i>	(Optional) <cost-value>

Command Mode

- /exec/configure/route-map

set extcommunity rt additive

```
{ set extcommunity rt { { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } + [ additive ] | additive } } | {
no set extcommunity rt [ { { <ext-comm-rt-aa2nn4> | <ext-comm-rt-aa4nn2> } + [ additive ] | additive ] }
```

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
extcommunity	Set BGP extcommunity attribute
rt	Route-Target
additive	(Optional) Add to existing rt extcommunity
<i>ext-comm-rt-aa2nn4</i>	Extcommunity number
<i>ext-comm-rt-aa4nn2</i>	Extcommunity number
<i>ext-comm-rt-aa2nn4</i>	(Optional) <ext-comm-rt-aa4nn2>

Command Mode

- /exec/configure/route-map

set extension-key

[no] set extension-key <key>

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set the extension key manually
extension-key	Set the extension key manually
<i>key</i>	Extension key

Command Mode

- /exec/configure/vmt-conn

set forwarding-address

[no] set forwarding-address

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
forwarding-address	Set the forwarding address

Command Mode

- /exec/configure/route-map

set inner ipv4

set { inner | outer } ipv4 [{ l3-type <l3_type> | pyld-len <pyld_len> | v6-vld <v6_vld> | version <ver> | header-len <hlen> | dscp <dscp_val> | ecn <ecn_val> | packet-len <pkt_len> | more-frags <mf> | fragment-off <fragoff> | ttl <ttl_val> | next-protocol <nproto> | checksum <csum> | src_ip <sip> | dst_ip <dip> }] +

Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
outer	Mask and Match By Outer Packet Fields
ipv4	IPv4 Fields
l3-type	(Optional) L3 Packet Type
<i>l3_type</i>	(Optional) L3 Packet Type
pyld-len	(Optional) Payload Length
<i>pyld_len</i>	(Optional) Payload Length
v6-vld	(Optional) IPv6 Valid Information
<i>v6_vld</i>	(Optional) IPv6 Valid Information
version	(Optional) Version
<i>ver</i>	(Optional) Version
header-len	(Optional) Header Length
<i>hlen</i>	(Optional) Header Length
dscp	(Optional) Diff. Serv. Code Point
<i>dscp_val</i>	(Optional) Diff. Serv. Code Point
ecn	(Optional) Explicit Congestion Ntn
<i>ecn_val</i>	(Optional) Explicit Congestion Ntn
packet-len	(Optional) Packet Total Length
<i>pkt_len</i>	(Optional) Packet Total Length
more-frags	(Optional) More Fragments Available
<i>mf</i>	(Optional) More Fragments Available
fragment-off	(Optional) Fragments Offset
<i>fragoff</i>	(Optional) Fragments Offset

<code>ttl</code>	(Optional) Time to Live
<code>ttl_val</code>	(Optional) Time to Live
<code>next-protocol</code>	(Optional) Next(L4) Protocol
<code>nproto</code>	(Optional) Next(L4) Protocol
<code>checksum</code>	(Optional) Checksum
<code>csum</code>	(Optional) Checksum
<code>src_ip</code>	(Optional) Source IP Address
<code>sip</code>	(Optional) Source IP Address
<code>dst_ip</code>	(Optional) Destination IP Address
<code>dip</code>	(Optional) Destination IP Address

Command Mode

- /exec/elanms/sel6

set inner ipv4

```
set inner ipv4 [ { l3-type <l3_type> | pyld-len <pyld_len> | v6-vld <v6_vld> | version <ver> | header-len <hlen> | dscp <dscp_val> | ecn <ecn_val> | packet-len <pkt_len> | more-frags <mf> | fragment-off <fragoff> | ttl <ttl_val> | next-protocol <nproto> | checksum <csum> | src_ip <sip> | dst_ip <dip> } ] +
```

Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
ipv4	IPv4 Fields
l3-type	(Optional) L3 Packet Type
<i>l3_type</i>	(Optional) L3 Packet Type
pyld-len	(Optional) Payload Length
<i>pyld_len</i>	(Optional) Payload Length
v6-vld	(Optional) IPv6 Valid Information
<i>v6_vld</i>	(Optional) IPv6 Valid Information
version	(Optional) Version
<i>ver</i>	(Optional) Version
header-len	(Optional) Header Length
<i>hlen</i>	(Optional) Header Length
dscp	(Optional) Diff. Serv. Code Point
<i>dscp_val</i>	(Optional) Diff. Serv. Code Point
ecn	(Optional) Explicit Congestion Ntn
<i>ecn_val</i>	(Optional) Explicit Congestion Ntn
packet-len	(Optional) Packet Total Length
<i>pkt_len</i>	(Optional) Packet Total Length
more-frags	(Optional) More Fragments Available
<i>mf</i>	(Optional) More Fragments Available
fragment-off	(Optional) Fragments Offset
<i>fragoff</i>	(Optional) Fragments Offset
ttl	(Optional) Time to Live

<i>ttl_val</i>	(Optional) Time to Live
next-protocol	(Optional) Next(L4) Protocol
<i>nproto</i>	(Optional) Next(L4) Protocol
checksum	(Optional) Checksum
<i>csum</i>	(Optional) Checksum
src_ip	(Optional) Source IP Address
<i>sip</i>	(Optional) Source IP Address
dst_ip	(Optional) Destination IP Address
<i>dip</i>	(Optional) Destination IP Address

Command Mode

- /exec/elanms/sel4

set inner l2

```
set { inner | outer } l2 [ { snap_vld <snap_vld> | cntag_vld <cntag_vld> | qtag_vld <qtag_vld> | vlan <vlan_id>
| cos <cos_val> | cfi <cfi_vld> | vntag_vld <vntag_vld> | vntag_svif <vntag_svif> | vntag_dvif <vntag_dvif>
| vntag_looped <vntag_loop> | vntag_pointer <vntag_p> | src_mac <smac> | dst_mac <dmac> } ] +
```

Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
outer	Mask and Match By Outer Packet Fields
l2	All Layer 2 Fields
snap_vld	(Optional) SNAP Header Information Valid
<i>snap_vld</i>	(Optional) SNAP Header Information Valid
cntag_vld	(Optional) CNTag Information Valid
<i>cntag_vld</i>	(Optional) CNTag Information Valid
qtag_vld	(Optional) VLAN Tag Information Valid
<i>qtag_vld</i>	(Optional) VLAN Tag Information Valid
vlan	(Optional) VLAN Id (Present only in case of FEX)
<i>vlan_id</i>	(Optional) VLAN Id
cos	(Optional) Class of Service
<i>cos_val</i>	(Optional) Class of Service Type
cfi	(Optional) CFI Setting
<i>cfi_vld</i>	(Optional) CFI Setting Valid
vntag_vld	(Optional) VNTAG Information Valid
<i>vntag_vld</i>	(Optional) VNTAG Information Valid
vntag_svif	(Optional) VNTAG Source vif
<i>vntag_svif</i>	(Optional) VNTAG Source vif
vntag_dvif	(Optional) VNTAG Destination vif
<i>vntag_dvif</i>	(Optional) VNTAG Destination vif
vntag_looped	(Optional) VNTAG Header Looped Valid
<i>vntag_loop</i>	(Optional) VNTAG Header Looped Valid

<i>vntag_pointer</i>	(Optional) VNTAG Header Pointer Valid
<i>vntag_p</i>	(Optional) VNTAG Header Pointer Valid
<i>src_mac</i>	(Optional) Source MAC Address
<i>smac</i>	(Optional) Source MAC Address Value
<i>dst_mac</i>	(Optional) Destination MAC Address
<i>dmac</i>	(Optional) Destination MAC Address Value

Command Mode

- /exec/elanms/se15

set inner l2

```
set inner l2 [ { snap_vld <snap_vld> | cntag_vld <cntag_vld> | qtag_vld <qtag_vld> | vlan <vlan_id> | cos
<cos_val> | cfi <cfi_vld> | vntag_vld <vntag_vld> | vntag_svif <vntag_svif> | vntag_dvif <vntag_dvif> |
vntag_looped <vntag_loop> | vntag_pointer <vntag_p> | src_mac <smac> | dst_mac <dmac> } ] +
```

Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
l2	All Layer 2 Fields
snap_vld	(Optional) SNAP Header Information Valid
<i>snap_vld</i>	(Optional) SNAP Header Information Valid
cntag_vld	(Optional) CNTag Information Valid
<i>cntag_vld</i>	(Optional) CNTag Information Valid
qtag_vld	(Optional) VLAN Tag Information Valid
<i>qtag_vld</i>	(Optional) VLAN Tag Information Valid
vlan	(Optional) VLAN Id (Present only in case of FEX)
<i>vlan_id</i>	(Optional) VLAN Id
cos	(Optional) Class of Service
<i>cos_val</i>	(Optional) Class of Service Type
cfi	(Optional) CFI Setting
<i>cfi_vld</i>	(Optional) CFI Setting Valid
vntag_vld	(Optional) VNTAG Information Valid
<i>vntag_vld</i>	(Optional) VNTAG Information Valid
vntag_svif	(Optional) VNTAG Source vif
<i>vntag_svif</i>	(Optional) VNTAG Source vif
vntag_dvif	(Optional) VNTAG Destination vif
<i>vntag_dvif</i>	(Optional) VNTAG Destination vif
vntag_looped	(Optional) VNTAG Header Looped Valid
<i>vntag_loop</i>	(Optional) VNTAG Header Looped Valid
vntag_pointer	(Optional) VNTAG Header Pointer Valid

<i>vntag_p</i>	(Optional) VNTAG Header Pointer Valid
<i>src_mac</i>	(Optional) Source MAC Address
<i>smac</i>	(Optional) Source MAC Address Value
<i>dst_mac</i>	(Optional) Destination MAC Address
<i>dmac</i>	(Optional) Destination MAC Address Value

Command Mode

- /exec/elanms/se14

set inner l2 hg2

```
set { inner | outer } l2 hg2 [ { hg2_vid <hg2_vlan> | hg2_ppd_type <hg2_ppd_type> | hg2_mirror <hg2_mirror>
| hg2_opcode <hg2_opcode> | hg2_dstpid <hg2_dpid> | hg2_dstmod <hg2_dmod> | hg2_srcpid <hg2_spid>
| hg2_srcmod <hg2_smod> | hg2_l3vld <hg2_l3_vld> | hg2_tc <hg2_tc> | hg2_dp <hg2_dp> | hg2_mcast
<hg2_mcast_vld> | hg2-vld <hg2_vld> | hg2-cos <hg2_cos> } ] +
```

Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
outer	Mask and Match By Outer Packet Fields
l2	All Layer 2 Fields
hg2	High Gig2 Fields
hg2_vid	(Optional) High Gig2 VLAN Tag
<i>hg2_vlan</i>	(Optional) High Gig2 VLAN Tag Information
hg2_ppd_type	(Optional) High Gig2 Packet Processing Descriptor
<i>hg2_ppd_type</i>	(Optional) High Gig2 Packet Processing Descriptor
hg2_mirror	(Optional) High Gig2 Packet Mirror Information
<i>hg2_mirror</i>	(Optional) High Gig2 Packet Mirror Information
hg2_opcode	(Optional) High Gig2 Packet Type
<i>hg2_opcode</i>	(Optional) High Gig2 Packet Type
hg2_dstpid	(Optional) High Gig2 Destination Port ID
<i>hg2_dpid</i>	(Optional) High Gig2 Destination Port ID
hg2_dstmod	(Optional) High Gig2 Destination Module ID
<i>hg2_dmod</i>	(Optional) High Gig2 Destination Module ID
hg2_srcpid	(Optional) High Gig2 Source Port ID
<i>hg2_spid</i>	(Optional) High Gig2 Source Port ID
hg2_srcmod	(Optional) High Gig2 Souce Module ID
<i>hg2_smod</i>	(Optional) High Gig2 Souce Module ID
hg2_l3vld	(Optional) High Gig2 Packet L3 Switched
<i>hg2_l3_vld</i>	(Optional) High Gig2 Packet L3 Switched

hg2_tc	(Optional) High Gig2 Packet Traffic Class
<i>hg2_tc</i>	(Optional) High Gig2 Packet Traffic Class
hg2_dp	(Optional) High Gig2 Drop Precedence
<i>hg2_dp</i>	(Optional) High Gig2 Drop Precedence
hg2_mcast	(Optional) High Gig2 MultiCast Forwarding Information
<i>hg2_mcast_vld</i>	(Optional) High Gig2 Multicast Forwarding Information
hg2-vld	(Optional) High Gig2 Valid Information
<i>hg2_vld</i>	(Optional) High Gig2 Valid Information
hg2-cos	(Optional) High Gig2 CoS Information
<i>hg2_cos</i>	(Optional) High Gig2 CoS Information

Command Mode

- /exec/elanms/se15

set inner l2 hg2

```
set inner l2 hg2 [ { hg2_vid <hg2_vlan> | hg2_ppd_type <hg2_ppd_type> | hg2_mirror <hg2_mirror> |
hg2_opcode <hg2_opcode> | hg2_dstpid <hg2_dpid> | hg2_dstmod <hg2_dmod> | hg2_srcpid <hg2_spid>
| hg2_srcmod <hg2_smod> | hg2_l3vld <hg2_l3_vld> | hg2_tc <hg2_tc> | hg2_dp <hg2_dp> | hg2_mcast
<hg2_mcast_vld> | hg2-vld <hg2_vld> | hg2-cos <hg2_cos> } ] +
```

Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
l2	All Layer 2 Fields
hg2	High Gig2 Fields
hg2_vid	(Optional) High Gig2 VLAN Tag
<i>hg2_vlan</i>	(Optional) High Gig2 VLAN Tag Information
hg2_ppd_type	(Optional) High Gig2 Packet Processing Descriptor
<i>hg2_ppd_type</i>	(Optional) High Gig2 Packet Processing Descriptor
hg2_mirror	(Optional) High Gig2 Packet Mirror Information
<i>hg2_mirror</i>	(Optional) High Gig2 Packet Mirror Information
hg2_opcode	(Optional) High Gig2 Packet Type
<i>hg2_opcode</i>	(Optional) High Gig2 Packet Type
hg2_dstpid	(Optional) High Gig2 Destination Port ID
<i>hg2_dpid</i>	(Optional) High Gig2 Destination Port ID
hg2_dstmod	(Optional) High Gig2 Destination Module ID
<i>hg2_dmod</i>	(Optional) High Gig2 Destination Module ID
hg2_srcpid	(Optional) High Gig2 Source Port ID
<i>hg2_spid</i>	(Optional) High Gig2 Source Port ID
hg2_srcmod	(Optional) High Gig2 Souce Module ID
<i>hg2_smod</i>	(Optional) High Gig2 Souce Module ID
hg2_l3vld	(Optional) High Gig2 Packet L3 Switched
<i>hg2_l3_vld</i>	(Optional) High Gig2 Packet L3 Switched
hg2_tc	(Optional) High Gig2 Packet Traffic Class

<i>hg2_tc</i>	(Optional) High Gig2 Packet Traffic Class
<i>hg2_dp</i>	(Optional) High Gig2 Drop Precedence
<i>hg2_dp</i>	(Optional) High Gig2 Drop Precedence
<i>hg2_mcast</i>	(Optional) High Gig2 MultiCast Forwarding Information
<i>hg2_mcast_vld</i>	(Optional) High Gig2 Multicast Forwarding Information
<i>hg2-vld</i>	(Optional) High Gig2 Valid Information
<i>hg2_vld</i>	(Optional) High Gig2 Valid Information
<i>hg2-cos</i>	(Optional) High Gig2 CoS Information
<i>hg2_cos</i>	(Optional) High Gig2 CoS Information

Command Mode

- /exec/elanms/sel4

set inner l4

```
set inner l4 [ { src-port <sport> | dst-port <dport> | packet-len <pkt_len> | checksum <csum> | flags <flag_val>
} ] +
```

Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
l4	L4 Fields
src-port	(Optional) Source Port Information
<i>sport</i>	(Optional) Source Port
dst-port	(Optional) Destination Port Information
<i>dport</i>	(Optional) Destination Port
packet-len	(Optional) Packet Length
<i>pkt_len</i>	(Optional) Packet Length
checksum	(Optional) Checksum
<i>csum</i>	(Optional) Checksum
flags	(Optional) L4 Flags
<i>flag_val</i>	(Optional) L4 Flags

Command Mode

- /exec/elanms/sel4

set inner l4

```
set { inner | outer } l4 [ { src-port <sport> | dst-port <dport> | packet-len <pkt_len> | checksum <csum> | flags
<flag_val> } ] +
```

Syntax Description

set	Setup Trigger
inner	Mask and Match By Inner Packet Fields
outer	Mask and Match By Outer Packet Fields
l4	L4 Fields
src-port	(Optional) Source Port Information
<i>sport</i>	(Optional) Source Port
dst-port	(Optional) Destination Port Information
<i>dport</i>	(Optional) Destination Port
packet-len	(Optional) Packet Length
<i>pkt_len</i>	(Optional) Packet Length
checksum	(Optional) Checksum
<i>csum</i>	(Optional) Checksum
flags	(Optional) L4 Flags
<i>flag_val</i>	(Optional) L4 Flags

Command Mode

- /exec/elanms/se17

set interface

[no] set interface <i>iface</i>

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
interface	Output interface
<i>iface</i>	Interface name

Command Mode

- /exec/configure/route-map

set interval find-new-host

[no] set interval find-new-host <val>

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set vmtracker options
interval	Set the polling interval
find-new-host	Set interval for the new host searching timer
<i>val</i>	The host search interval value in seconds (0 to disable)

Command Mode

- /exec/configure/vmt-conn

set interval pending-task-polling

[no] set interval pending-task-polling <val>

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set vmtracker options
interval	Set the polling interval
pending-task-polling	Define pending-task-polling interval
<i>val</i>	The pending task polling interval value in seconds

Command Mode

- /exec/configure/vmt-conn

set interval sync-full-info

[no] set interval sync-full-info <val>

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set vmtracker options
interval	Set the polling interval
sync-full-info	Set interval for syncing complete info from host
<i>val</i>	The sync info interval value in seconds (0 to disable)

Command Mode

- /exec/configure/vmt-conn

set ip address prefix-list

[no] set ip address prefix-list <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
address	Specify IP address
prefix-list	IP prefix-list
<i>name</i>	Name of prefix list

Command Mode

- /exec/configure/route-map

set ip next-hop

```
[no] set ip next-hop [ recursive ] { load-share | <addr1> + [ load-share ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
recursive	(Optional) Use recursive lookup
next-hop	Next hop address
<i>addr1</i>	IP address of next hop
load-share	Enables load sharing

Command Mode

- /exec/configure/route-map

set ip next-hop peer-address

[no] set ip next-hop peer-address

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
next-hop	Next hop address
peer-address	Use peer address (for BGP only)

Command Mode

- /exec/configure/route-map

set ip next-hop redist-unchanged

[no] set ip next-hop redist-unchanged

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
next-hop	Next hop address
redist-unchanged	Use unchanged address during redistribution (for BGP session only)

Command Mode

- /exec/configure/route-map

set ip next-hop unchanged

[no] set ip next-hop unchanged

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
next-hop	Next hop address
unchanged	Use unchanged address (for eBGP session only)

Command Mode

- /exec/configure/route-map

set ip next-hop verify-availability

[no] set ip next-hop verify-availability { <addr> [track <object_id>] } [load-share]

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
next-hop	Next hop address
verify-availability	Verify the reachability of the tracked object
<i>addr</i>	IP address of next hop
track	(Optional) The tracking method is track
<i>object_id</i>	(Optional) Object number that the tracking subsystem is tracking
load-share	(Optional) Enables load sharing

Command Mode

- /exec/configure/route-map

set ip precedence

{ set ip precedence { <value> | <name> } } | { no set ip precedence [<value> | <name>] }

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
ip	Configure IP features
precedence	Set precedence field
<i>value</i>	Precedence value
<i>name</i>	Precedence value

Command Mode

- /exec/configure/route-map

set ipv6 address prefix-list

[no] set ipv6 address prefix-list <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
address	Specify IP address
prefix-list	IPv6 prefix-list
<i>name</i>	Name of prefix list

Command Mode

- /exec/configure/route-map

set ipv6 default next-hop

[no] set ipv6 default next-hop [recursive] { load-share | <addr1> + [load-share] }

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
recursive	(Optional) Use recursive lookup
default	Set default next-hop
next-hop	Next hop address
load-share	Enables load sharing
<i>addr1</i>	

Command Mode

- /exec/configure/route-map

set ipv6 default next-hop verify-availability

[no] set ipv6 default next-hop verify-availability { <addr> [track <object_id>] } [load-share]

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
next-hop	Next hop address
default	Set default next-hop
verify-availability	Verify the reachability of the tracked object
track	(Optional) The tracking method is track
<i>object_id</i>	(Optional) Object number that the tracking subsystem is tracking
load-share	(Optional) Enables load sharing

Command Mode

- /exec/configure/route-map

set ipv6 next-hop

[no] set ipv6 next-hop { load-share | <addr> + [load-share] }

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
next-hop	Next hop ipv6 address
load-share	Enables load sharing
<i>addr</i>	

Command Mode

- /exec/configure/route-map

set ipv6 next-hop peer-address

[no] set ipv6 next-hop peer-address

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
next-hop	Next hop address
peer-address	Use peer address (for BGP only)

Command Mode

- /exec/configure/route-map

set ipv6 next-hop redist-unchanged

[no] set ipv6 next-hop redist-unchanged

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
next-hop	Next hop address
redist-unchanged	Use unchanged address during redistribution (for BGP session only)

Command Mode

- /exec/configure/route-map

set ipv6 next-hop unchanged

[no] set ipv6 next-hop unchanged

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
next-hop	Next hop address
unchanged	Use unchanged address (for eBGP session only)

Command Mode

- /exec/configure/route-map

set ipv6 next-hop verify-availability

[no] set ipv6 next-hop verify-availability { <addr> [track <object_id>] } [load-share]

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
next-hop	Next hop address
verify-availability	Verify the reachability of the tracked object
track	(Optional) The tracking method is track
<i>object_id</i>	(Optional) Object number that the tracking subsystem is tracking
load-share	(Optional) Enables load sharing

Command Mode

- /exec/configure/route-map

set ipv6 precedence

```
{ set ipv6 precedence { <value> | <name> } } | { no set ipv6 precedence [ <value> | <name> ] }
```

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
ipv6	Configure IPv6 features
precedence	Set precedence field
<i>value</i>	Precedence value
<i>name</i>	Precedence value

Command Mode

- /exec/configure/route-map

set label-index

```
{ { set label-index <value> } | { no set label-index [ <value> ] } }
```

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
label-index	Set Segment Routing (SR) label index of route
<i>value</i>	Segment Routing (SR) label index

Command Mode

- /exec/configure/route-map

set level level-1 level-1-2 level-2

{ set level { level-1 | level-1-2 | level-2 } } | { no set level [level-1 | level-1-2 | level-2] }

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
level	Where to import route
level-1	Import into a level-1 area
level-1-2	Import into level-1 and level-2
level-2	Import into level-2 sub-domain

Command Mode

- /exec/configure/route-map

set local-preference

{ set local-preference <pref> | no set local-preference [<pref>] }

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
local-preference	BGP local preference path attribute
<i>pref</i>	Preference value

Command Mode

- /exec/configure/route-map

set metric-type external internal type-1 type-2

{ set metric-type { external | internal | type-1 | type-2 } } | { no set metric-type [external | internal | type-1 | type-2] }

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
metric-type	Type of metric for destination routing protocol
external	IS-IS external metric
internal	Use IGP metric as the MED for BGP
type-1	OSPF external type 1 metric
type-2	OSPF external type 2 metric

Command Mode

- /exec/configure/route-map

set metric

```
{ set metric <metric0> [ <metric1> <metric2> <metric3> <metric4> ] } | { no set metric [ <metric0> [ <metric1> <metric2> <metric3> <metric4> ] ] }
```

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
metric	Set metric for destination routing protocol
<i>metric0</i>	[+/-] Metric value or Bandwidth in Kbits per second
<i>metric1</i>	(Optional) IGRP delay metric
<i>metric2</i>	(Optional) IGRP reliability metric where 255 is 100% reliable
<i>metric3</i>	(Optional) IGRP Effective bandwidth metric (Loading) 255 is 100%
<i>metric4</i>	(Optional) IGRP MTU of the path

Command Mode

- /exec/configure/route-map

set mpls-exp-topmost cos table exp-cos-map

[no] set mpls-exp-topmost cos table exp-cos-map

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set attribute
mpls-exp-topmost	MPLS experimental topmost
cos	IEEE 802.1Q Class of Service
table	Table map
exp-cos-map	Exp to cos table map name (reserved)

Command Mode

- /exec/configure/policy-map/type/queuing/class

set nssa-only

[no] set nssa-only

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
nssa-only	OSPF NSSA Areas

Command Mode

- /exec/configure/route-map

set origin egp

{ set origin egp <as> } | { no set origin egp <as> }

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
origin	BGP origin code
egp	remote EGP
as	AS number

Command Mode

- /exec/configure/route-map

set origin egp igp incomplete

{ set origin { egp | igp | incomplete } } | { no set origin [{ egp | igp | incomplete }] }

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
origin	BGP origin code
egp	remote EGP
igp	local IGP
incomplete	unknown heritage

Command Mode

- /exec/configure/route-map

set outer ipv4

```
set outer ipv4 [ { l3-type <l3_type> | pyld-len <pyld_len> | v6-vld <v6_vld> | version <ver> | header-len <hlen> | dscp <dscp_val> | ecn <ecn_val> | packet-len <pkt_len> | more-frags <mf> | fragment-off <fragoff> | ttl <ttl_val> | next-protocol <nproto> | checksum <csum> | src_ip <src_ip> | dst_ip <dst_ip> } ] +
```

Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
ipv4	IPv4 Fields
l3-type	(Optional) L3 Packet Type
<i>l3_type</i>	(Optional) L3 Packet Type
pyld-len	(Optional) Payload Length
<i>pyld_len</i>	(Optional) Payload Length
v6-vld	(Optional) IPv6 Valid Information
<i>v6_vld</i>	(Optional) IPv6 Valid Information
version	(Optional) Version
<i>ver</i>	(Optional) Version
header-len	(Optional) Header Length
<i>hlen</i>	(Optional) Header Length
dscp	(Optional) Diff. Serv. Code Point
<i>dscp_val</i>	(Optional) Diff. Serv. Code Point
ecn	(Optional) Explicit Congestion Ntn
<i>ecn_val</i>	(Optional) Explicit Congestion Ntn
packet-len	(Optional) Packet Total Length
<i>pkt_len</i>	(Optional) Packet Total Length
more-frags	(Optional) More Fragments Available
<i>mf</i>	(Optional) More Fragments Available
fragment-off	(Optional) Fragments Offset
<i>fragoff</i>	(Optional) Fragments Offset
ttl	(Optional) Time to Live

<i>ttl_val</i>	(Optional) Time to Live
next-protocol	(Optional) Next(L4) Protocol
<i>nproto</i>	(Optional) Next(L4) Protocol
checksum	(Optional) Checksum
<i>csum</i>	(Optional) Checksum
src_ip	(Optional) Source IP Address
<i>sip</i>	(Optional) Source IP Address
dst_ip	(Optional) Destination IP Address
<i>dip</i>	(Optional) Destination IP Address

Command Mode

- /exec/elanms/sel3

set outer l2

```
set outer l2 [ { snap_vld <snap_vld> | cntag_vld <cntag_vld> | qtag_vld <qtag_vld> | vlan <vlan_id> | cos
<cos_val> | cfi <cfi_vld> | vntag_vld <vntag_vld> | vntag_svif <vntag_svif> | vntag_dvif <vntag_dvif> |
vntag_looped <vntag_loop> | vntag_pointer <vntag_p> | src_mac <smac> | dst_mac <dmac> } ] +
```

Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
l2	All Layer 2 Fields
snap_vld	(Optional) SNAP Header Information Valid
<i>snap_vld</i>	(Optional) SNAP Header Information Valid
cntag_vld	(Optional) CNTag Information Valid
<i>cntag_vld</i>	(Optional) CNTag Information Valid
qtag_vld	(Optional) VLAN Tag Information Valid
<i>qtag_vld</i>	(Optional) VLAN Tag Information Valid
vlan	(Optional) VLAN Id (Present only in case of FEX)
<i>vlan_id</i>	(Optional) VLAN Id
cos	(Optional) Class of Service
<i>cos_val</i>	(Optional) Class of Service Type
cfi	(Optional) CFI Setting
<i>cfi_vld</i>	(Optional) CFI Setting Valid
vntag_vld	(Optional) VNTAG Information Valid
<i>vntag_vld</i>	(Optional) VNTAG Information Valid
vntag_svif	(Optional) VNTAG Source vif
<i>vntag_svif</i>	(Optional) VNTAG Source vif
vntag_dvif	(Optional) VNTAG Destination vif
<i>vntag_dvif</i>	(Optional) VNTAG Destination vif
vntag_looped	(Optional) VNTAG Header Looped Valid
<i>vntag_loop</i>	(Optional) VNTAG Header Looped Valid
vntag_pointer	(Optional) VNTAG Header Pointer Valid

<i>vntag_p</i>	(Optional) VNTAG Header Pointer Valid
<i>src_mac</i>	(Optional) Source MAC Address
<i>smac</i>	(Optional) Source MAC Address Value
<i>dst_mac</i>	(Optional) Destination MAC Address
<i>dmac</i>	(Optional) Destination MAC Address Value

Command Mode

- /exec/elamns/sel3

set outer l2 hg2

```
set outer l2 hg2 [ { hg2_vid <hg2_vlan> | hg2_ppd_type <hg2_ppd_type> | hg2_mirror <hg2_mirror> |
hg2_opcode <hg2_opcode> | hg2_dstpid <hg2_dpid> | hg2_dstmod <hg2_dmod> | hg2_srcpid <hg2_spid>
| hg2_srcmod <hg2_smod> | hg2_l3vld <hg2_l3_vld> | hg2_tc <hg2_tc> | hg2_dp <hg2_dp> | hg2_mcast
<hg2_mcast_vld> | hg2_vld <hg2_vld> | hg2-cos <hg2_cos> } ] +
```

Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
l2	All Layer 2 Fields
hg2	High Gig2 Fields
hg2_vid	(Optional) High Gig2 VLAN Tag
<i>hg2_vlan</i>	(Optional) High Gig2 VLAN Tag Information
hg2_ppd_type	(Optional) High Gig2 Packet Processing Descriptor
<i>hg2_ppd_type</i>	(Optional) High Gig2 Packet Processing Descriptor
hg2_mirror	(Optional) High Gig2 Packet Mirror Information
<i>hg2_mirror</i>	(Optional) High Gig2 Packet Mirror Information
hg2_opcode	(Optional) High Gig2 Packet Type
<i>hg2_opcode</i>	(Optional) High Gig2 Packet Type
hg2_dstpid	(Optional) High Gig2 Destination Port ID
<i>hg2_dpid</i>	(Optional) High Gig2 Destination Port ID
hg2_dstmod	(Optional) High Gig2 Destination Module ID
<i>hg2_dmod</i>	(Optional) High Gig2 Destination Module ID
hg2_srcpid	(Optional) High Gig2 Source Port ID
<i>hg2_spid</i>	(Optional) High Gig2 Source Port ID
hg2_srcmod	(Optional) High Gig2 Souce Module ID
<i>hg2_smod</i>	(Optional) High Gig2 Souce Module ID
hg2_l3vld	(Optional) High Gig2 Packet L3 Switched
<i>hg2_l3_vld</i>	(Optional) High Gig2 Packet L3 Switched
hg2_tc	(Optional) High Gig2 Packet Traffic Class

<i>hg2_tc</i>	(Optional) High Gig2 Packet Traffic Class
<i>hg2_dp</i>	(Optional) High Gig2 Drop Precedence
<i>hg2_dp</i>	(Optional) High Gig2 Drop Precedence
<i>hg2_mcast</i>	(Optional) High Gig2 MultiCast Forwarding Information
<i>hg2_mcast_vld</i>	(Optional) High Gig2 Multicast Forwarding Information
<i>hg2-vld</i>	(Optional) High Gig2 Valid Information
<i>hg2_vld</i>	(Optional) High Gig2 Valid Information
<i>hg2-cos</i>	(Optional) High Gig2 CoS Information
<i>hg2_cos</i>	(Optional) High Gig2 CoS Information

Command Mode

- /exec/elanms/sel3

set outer l4

```
set outer l4 [ { src-port <sport> | dst-port <dport> | packet-len <pkt_len> | checksum <csum> | flags <flag_val>
} ] +
```

Syntax Description

set	Setup Trigger
outer	Mask and Match By Outer Packet Fields
l4	L4 Fields
src-port	(Optional) Source Port Information
<i>sport</i>	(Optional) Source Port
dst-port	(Optional) Destination Port Information
<i>dport</i>	(Optional) Destination Port
packet-len	(Optional) Packet Length
<i>pkt_len</i>	(Optional) Packet Length
checksum	(Optional) Checksum
<i>csum</i>	(Optional) Checksum
flags	(Optional) L4 Flags
<i>flag_val</i>	(Optional) L4 Flags

Command Mode

- /exec/elanms/sel3

set path-selection all advertise

[no] set path-selection all advertise

Syntax Description

no	(Optional) Negate a command or set its defaults
set	Set values in destination routing protocol
path-selection	Path selection criteria for BGP
all	Specifies all BGP Paths
advertise	Advertise add paths to its peers if receive capability enabled

Command Mode

- /exec/configure/route-map

set pktmgr pds yield-threshold

set pktmgr pds yield-threshold [<thr>]

Syntax Description

set	Set values
pktmgr	Set values in pktmgr
pds	Set value for pktmgr pds operation
yield-threshold	Set Value of yield-threshold
<i>thr</i>	(Optional) threshold

Command Mode

- /exec

set pktrw

```
set pktrw { mcast <mcast> | sup_redir <sured> | bcm_proxy <bcm_proxy> | excep_case <excep> | transit
<trans> | vpc_df <vpc_df> | src_tep_idx <src_tep> | lat_update <lat_update> | lat_idx <lat_idx> | src_class
<sclass> | ol_fb_met <ol_fb_met> | ol_fb_vpath <ol_fb_vpath> | ol_dre <ol_dre> | ol_vpath <ol_vpath> |
ol_dp <ol_dp> | ol_sp <ol_sp> | ol_e <ol_e> | ol_dl <ol_dl> | ol_lb <ol_lb> | ol_mark <ol_mark> | ol_udp_sp
<ol_udp_sp> | ol_ftag <ol_ftag> | ol_segid <ol_segid> | ol_ttl <ol_ttl> | ol_ecn <ol_ecn> | ol_dscp <ol_dscp>
| ol_de <ol_de> | ol_cos <ol_cos> | ol_mac <ol_mac> | ol_encap_idx <ol_encap> | ol_vpc <ol_vpc> | ol_idx
<ol_idx> | ttl <ttl> | dscp <dscp> | vlan1 <vlan1> | ecn_coi <ecn_coi> | ecn_cio <ecn_cio> | ttl_coi <ttl_coi>
| ttl_cio <ttl_cio> | adj_idx <adj_idx> | vntag_svif <vntag_svif> | de <de> | cos <cos> | vlan0 <vlan0> | adj_vld
<adj_vld> | uc_routed <uc_routed> | loopback <lpb> | ecn <ecn> | hg2_vid <hg2_vlan> | hg2_ppd <hg2_ppd>
| hg2_tc_sup_copy <hg2_tcscopy> | hg2_tc <hg2_tc> | hg2_lbid <hg2_lbid> | hg2_opc <hg2_opc> | hg2_dstpid
<hg2_dpид> | hg2_srcpid <hg2_spид> | hg2_dstmod <hg2_dmod> | hg2_srcmod <hg2_smod> | op_inner
<op_inner> | op_qtag <op_qtag> | op_vntag <op_vntag> | op_outer <op_outer> | pkt_type <pkt_type> | drop
<drp> | pkt_tstmp <pkt_tstmp> | tstmp <tstmp> | cap_tstmp <cap_tstmp> | len_info <len_info> | len_type
<len_type> | pktid <pktid> | srcid <srcid> | pktfmt1 <pktfmt1> | pktfmt0 <pktfmt0> | hg2_cos <hg2_cos> }
+
```

Syntax Description

set	Setup Trigger
pktrw	All packet re-write fields
mcast	mcast
<i>mcast</i>	Mcast
sup_redir	Sup Redirect
<i>sured</i>	Sup Redirect
bcm_proxy	Broadcom Proxy
<i>bcm_proxy</i>	Broadcom Proxy
excep_case	Excep_case
<i>excep</i>	Excep_case
transit	Transit
<i>trans</i>	Transit
vpc_df	VPC_df
<i>vpc_df</i>	VPC_df
src_tep_idx	Src TEP Index
<i>src_tep</i>	Src TEP Index
lat_update	Lat Update

<i>lat_update</i>	Lat Update
lat_idx	Lat Index
<i>lat_idx</i>	Lat Index
src_class	Source Class
<i>sclass</i>	Source Class
ol_fb_met	Ol_fb_metric
<i>ol_fb_met</i>	Ol_fb_metric
ol_fb_vpath	Ol_fb_vpath
<i>ol_fb_vpath</i>	Ol_fb_vpath
ol_dre	Ol_dre
<i>ol_dre</i>	Ol_dre
ol_vpath	Ol_vpath
<i>ol_vpath</i>	Ol_vpath
ol_dp	Ol_dp
<i>ol_dp</i>	Ol_dp
ol_sp	Ol_sp
<i>ol_sp</i>	Ol_sp
ol_e	Ol_e
<i>ol_e</i>	Ol_e
ol_dl	Ol_dl
<i>ol_dl</i>	Ol_dl
ol_lb	Ol_lb
<i>ol_lb</i>	Ol_lb
ol_mark	Ol_mark
<i>ol_mark</i>	Ol_mark
ol_udp_sp	Ol_UDP_sp
<i>ol_udp_sp</i>	Ol UDP Source Port
ol_ftag	Ol_ftag
<i>ol_ftag</i>	Ol_ftag

ol_segid	Ol_segid
<i>ol_segid</i>	Ol_segid
ol_ttl	Ol_TTL
<i>ol_ttl</i>	Ol_TTL
ol_ecn	Ol_ecn
<i>ol_ecn</i>	Ol_ecn
ol_dscp	Ol_dscp
<i>ol_dscp</i>	Ol_dscp
ol_de	Ol_de
<i>ol_de</i>	Ol_de
ol_cos	Ol_cos
<i>ol_cos</i>	Ol_cos
ol_mac	Ol_mac
<i>ol_mac</i>	Ol_mac
ol_encap_idx	Ol_encap_idx
<i>ol_encap</i>	Ol_encap_idx
ol_vpc	Ol_VPC
<i>ol_vpc</i>	Ol_VPC
ol_idx	Ol_idx
<i>ol_idx</i>	Ol_idx
ttl	TTL
<i>ttl</i>	TTL
dscp	DSCP
<i>dscp</i>	DSCP
vlan1	Vlan1
<i>vlan1</i>	Vlan1
ecn_coi	ecn_coi
<i>ecn_coi</i>	ecn_coi
ecn_cio	ecn_cio

<i>ecn_cio</i>	ecn_cio
ttl_coi	ttl_coi
<i>ttn_coi</i>	ttn_coi
ttn_cio	ttn_cio
<i>ttn_cio</i>	ttn_cio
adj_idx	adj_idx
<i>adj_idx</i>	adj_idx
vntag_svif	vntag_svif
<i>vntag_svif</i>	vntag_svif
de	de
<i>de</i>	de
cos	cos
<i>cos</i>	cos
vlan0	vlan0
<i>vlan0</i>	vlan0
adj_vld	adj_vld
<i>adj_vld</i>	adj_vld
uc_routed	uc_routed
<i>uc_routed</i>	uc_routed
loopback	loopback
<i>lpb</i>	loopback
ecn	ecn
<i>ecn</i>	ecn
hg2_vid	High Gig2 VLAN Tag
<i>hg2_vlan</i>	High Gig2 VLAN Tag Information
hg2_cos	High Gig2 CoS Information
<i>hg2_cos</i>	High Gig2 CoS Information
hg2_ppd	High Gig2 Packet Processing Descriptor
<i>hg2_ppd</i>	High Gig2 Packet Processing Descriptor

hg2_tc_sup_copy	High Gig2 Traffic Class SUP Copy
<i>hg2_tcscopy</i>	High Gig2 Traffic Class SUP Copy
hg2_tc	High Gig2 Packet Traffic Class
<i>hg2_tc</i>	High Gig2 Packet Traffic Class
hg2_lbid	High Gig2 Packet Ibid
<i>hg2_lbid</i>	High Gig2 Packet Ibid
hg2_opc	High Gig2 Packet Type
<i>hg2_opc</i>	High Gig2 Packet Type
hg2_dstpid	High Gig2 Destination Port ID
<i>hg2_dpid</i>	High Gig2 Destination Port ID
hg2_dstmod	High Gig2 Destination Module ID
<i>hg2_dmod</i>	High Gig2 Destination Module ID
hg2_srcpid	High Gig2 Source Port ID
<i>hg2_spid</i>	High Gig2 Source Port ID
hg2_srcmod	High Gig2 Souce Module ID
<i>hg2_smod</i>	High Gig2 Souce Module ID
op_inner	Op_inner
<i>op_inner</i>	Op_inner
op_outer	Op_outer
<i>op_outer</i>	Op_outer
op_qtag	Op_qtag
<i>op_qtag</i>	Op_qtag
op_vntag	Op_vntag
<i>op_vntag</i>	Op_vntag
pkt_type	Pkt_type
<i>pkt_type</i>	Pkt_type
drop	Drop
<i>drp</i>	Drop
pkt_tstamp	Packet timestamp

<i>pkt_tstamp</i>	Packet timestamp
tstamp	Timestamp
<i>tstamp</i>	Timestamp
cap_tstamp	Capture Timestamp
<i>cap_tstamp</i>	Capture Timestamp
len_info	Len_info
<i>len_info</i>	Len_info
len_type	Len_type
<i>len_type</i>	Len_type
pktid	Pkt_id
<i>pktid</i>	Pkt_id
srcid	Src_id
<i>srcid</i>	Src_id
pktfmt1	Pktfmt1
<i>pktfmt1</i>	Pktfmt1
pktfmt0	Pktfmt0
<i>pktfmt0</i>	Pktfmt0

Command Mode

- /exec/elanms/outsel0

set sideband

```
set sideband { span_vec <span_vec> | bounce <bnc> | mclast <mclast> | mcastcurptr <mccurptr> | mcastcurptr_v
<mccurptr_v> | srcport <sport> | vlan <vlan> | segwgt <segwgt> | segid <segid> | seglocal <seglcl> | gbw_color
<gbw_color> | gbw_tag <gbw_tagg> | fwddrp <fwddrp> | l2fld <l2fld> | nodrp <nodrp> | ovrlyidx <ovrlyidx>
| ecncap <ecncap> | cpu <cpu> | store_fwd <stfwd> | mcast <mcast> | oclass <ocls> | iclass <icls> | odest_v
<odest_v> | odest <odest> | ovec <ovec> | span_trans <span_trans> | lbtype <lbtype> | lbena <lbena> | tdmid
<tdmid> | pktid <pktid> | srcid <srcid> | eoferror <eoferr> | eofbytes <eofby> | eof <eof> | sof <sof> } +
```

Syntax Description

set	Setup Trigger
sideband	All sideband fields
span_vec	SPAN vector
<i>span_vec</i>	SPAN vector
bounce	Bounce
<i>bnc</i>	Bounce
mclast	Mclast
<i>mclast</i>	Mclast
mcastcurptr	Mcast cur ptr
<i>mccurptr</i>	Mcast cur ptr
mcastcurptr_v	Mcast cur ptr v
<i>mccurptr_v</i>	Mcast cur ptr v
srcport	Source Port
<i>sport</i>	Source Port
vlan	Vlan
<i>vlan</i>	Vlan
segwgt	Segwgt
<i>segwgt</i>	Segwgt
segid	Segid
<i>segid</i>	Segid
seglocal	Seglocal
<i>seglcl</i>	Seglocal

gbw_color	GBW color
<i>gbw_color</i>	GBW color
gbw_tag	GBW tagged
<i>gbw_tagg</i>	GBW tagged
fwddrp	Forward drop
<i>fwddrp</i>	Forward drop
l2fld	L2 Flood
<i>l2fld</i>	L2 Flood
nodrp	No drop
<i>nodrp</i>	No drop
ovrlyidx	Overlay index
<i>ovrlyidx</i>	Overlay index
ecncap	ECN Capable
<i>ecncap</i>	ECN Capable
cpu	CPU
<i>cpu</i>	CPU
store_fwd	Store_fwd
<i>stfwd</i>	Store_fwd
mcast	Multicast
<i>mcast</i>	Multicast
oclass	Output class
<i>ocls</i>	Output class
iclass	Input class
<i>icls</i>	Input class
odest_v	Odest_v
<i>odest_v</i>	Odest_v
odest	Odest
<i>odest</i>	Odest
ovec	Ovector

<i>ovec</i>	Ovector
<i>span_trans</i>	SPAN transit
<i>span_trans</i>	SPAN transit
<i>lbtype</i>	Lbtype
<i>lbtype</i>	Lbtype
<i>lbena</i>	Lbenable
<i>lbena</i>	Lbenable
<i>tdmid</i>	Tdmid
<i>tdmid</i>	Tdmid
<i>pktid</i>	Pkt_id
<i>pktid</i>	Pkt_id
<i>srcid</i>	Src_id
<i>srcid</i>	Src_id
<i>eoferror</i>	EOF error
<i>eoferr</i>	EOF erro
<i>eofbytes</i>	EOF bytes
<i>eofby</i>	EOF bytes
<i>eof</i>	EOF
<i>eof</i>	EOF
<i>sof</i>	SOF
<i>sof</i>	SOF

Command Mode

- /exec/elanms/outsel5

set tag

```
{ { set tag <value> } | { no set tag [ <value> ] } }
```

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
tag	Tag value for destination routing protocol
<i>value</i>	Tag value

Command Mode

- /exec/configure/route-map

set weight

```
{ set weight <count> | no set weight [ <count> ] }
```

Syntax Description

no	Negate a command or set its defaults
set	Set values in destination routing protocol
weight	BGP weight for routing table
<i>count</i>	Weight value

Command Mode

- /exec/configure/route-map

setup

setup

Syntax Description

setup	Run the basic SETUP command facility
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Command Mode

- /exec

sflow

```
sflow { [ sampling-rate <rate> ] [ max-sampled-size <pkt-size> ] [ counter-poll-interval <interval> ] [ max-datagram-size <dgram-size> ] [ collector-ip <dst-ip> vrf { <vrf-name> | <vrf-known-name> } [ source <src-ip> ] ] [ collector-port <dst-port> ] [ agent-ip <agent-ip> ] }
```

Syntax Description

sflow	change sFlow global settings
sampling-rate	(Optional) sFlow Sampling Rate
<i>rate</i>	(Optional) sFlow Sampling rate
max-sampled-size	(Optional) sFlow Sampled Size
<i>pkt-size</i>	(Optional) sFlow Sampled Size
counter-poll-interval	(Optional) sFlow Counter Poll Interval
<i>interval</i>	(Optional) sFlow Counter Poll Interval
max-datagram-size	(Optional) sFlow Datagram Size
<i>dgram-size</i>	(Optional) sFlow Datagram Size
collector-ip	(Optional) sFlow Collector IP address
<i>dst-ip</i>	(Optional) sFlow Collector IP address
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
source	(Optional) Source IP address to send to sFlow Collector
<i>src-ip</i>	(Optional) Source IP address to send to sFlow Collector
collector-port	(Optional) sFlow Collector UDP port
<i>dst-port</i>	(Optional) sFlow Collector UDP port
agent-ip	(Optional) sFlow Agent IP address
<i>agent-ip</i>	(Optional) sFlow Agent IP address

Command Mode

- /exec/configure

sflow

[no] sflow { sampling-rate | max-sampled-size | counter-poll-interval | max-datagram-size | collector-ip | collector-port | agent-ip }

Syntax Description

no	Negate a command or set its defaults
sflow	change sFlow global settings
sampling-rate	sFlow Sampling Rate
max-sampled-size	sFlow Sampled Size
counter-poll-interval	sFlow Counter Poll Interval
max-datagram-size	sFlow Datagram Size
collector-ip	sFlow Collector IP address
collector-port	sFlow Collector UDP port
agent-ip	sFlow Agent IP address

Command Mode

- /exec/configure

sflow cpu-usage limit

sflow cpu-usage limit <percent>

Syntax Description

sflow	change sFlow global settings
cpu-usage	sFlow cpu usage setting
limit	sFlow cpu usage limit
<i>percent</i>	sFlow cpu usage limit percentage

Command Mode

- /exec/configure

sflow data-source interface

sflow data-source interface { <ifnum> | <pcifnum> }

Syntax Description

sflow	change sFlow global settings
data-source	sFlow Data Source
interface	sFlow Data Source Interface
<i>ifnum</i>	sFlow Data Source Interface
<i>pcifnum</i>	sFlow Data Source Interface

Command Mode

- /exec/configure

sflow data-source interface

[no] sflow data-source interface { <ifnum> | <pcifnum> }

Syntax Description

no	Negate a command or set its defaults
sflow	change sFlow global settings
data-source	sFlow Data Source
interface	sFlow Data Source Interface
<i>ifnum</i>	sFlow Data Source Interface
<i>pcifnum</i>	sFlow Data Source Interface

Command Mode

- /exec/configure

sflow extended switch

[no] sflow extended switch

Syntax Description

no	(Optional) Negate a command or set its defaults
sflow	change sFlow global settings
extended	sFlow extended flow records
switch	sFlow extended switch flow

Command Mode

- /exec/configure

shape

```
[no] shape { { [ average ] { <avg-rate> [ bps | kbps | mbps | gbps ] | percent <percentage> } } | { min { <min-rate> [ bps2 | kbps2 | mbps2 | gbps2 | pps2 ] | percent2 <percentage2> } max { <max-rate> [ bps3 | kbps3 | mbps3 | gbps3 | pps3 ] | percent3 <percentage3> } } } | { { kbps4 | pps4 } { <max-rate4> [ min2 <min-rate4> ] } } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
shape	shape
average	(Optional) Configure average shape rate
min	Configure minimum shape rate
max	Configure maximum shape rate
bps	(Optional) Bits per second
kbps	(Optional) Kilo bits per second
mbps	(Optional) Mega bits per second
gbps	(Optional) Giga bits per second
bps2	(Optional) Bits per second
kbps2	(Optional) Kilo Bits per second
mbps2	(Optional) Mega Bits per second
gbps2	(Optional) Giga Bits per second
pps2	(Optional) Packets per second
bps3	(Optional) Bits per second
kbps3	(Optional) Kilo Bits per second
mbps3	(Optional) Mega Bits per second
gbps3	(Optional) Giga Bits per second
pps3	(Optional) Packets per second
percent	Specify rate as percentage of interface data-rate
percent2	Specify rate as percentage of interface data-rate
percent3	Specify rate as percentage of interface data-rate
<i>percentage</i>	Percentage

<i>percentage2</i>	Percentage
<i>percentage3</i>	Percentage
kbps4	Kilo Bits per second
pps4	Packets per second
min2	(Optional) Min guaranteed bandwidth

Command Mode

- /exec/configure/policy-map/type/queuing/class

shared-secret

```
[no] shared-secret { 10 <clear> | 7 <encrypted> | <secret> } [ user <user> password { 0 <clear> | 7 <encrypted> | <password> } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
shared-secret	Shared-secret
<i>secret</i>	Enter shared-secret in clear text
10	password in clear text
<i>clear</i>	Password in clear text
7	Password that follows should be in encrypted text
<i>encrypted</i>	Encrypted password
user	(Optional) User Name
<i>user</i>	(Optional) Enter user name
password	(Optional) Password
<i>password</i>	(Optional) Enter password in clear text
0	(Optional) Password that follows should be in clear text
<i>clear</i>	(Optional) Password in clear text
7	(Optional) Password that follows should be in encrypted text
<i>encrypted</i>	(Optional) Encrypted password

Command Mode

- /exec/configure/fabric-db/server-radius

show

```
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

show

Syntax Description

show	Show trigger config
------	---------------------

Command Mode

- /exec/elamns/sel3

show

show

Syntax Description

show	Show trigger config
------	---------------------

Command Mode

- /exec/elamns/se14

show

show

Syntax Description

show	Show trigger config
------	---------------------

Command Mode

- /exec/elamns/sel5

show

show

Syntax Description

show	Show trigger config
------	---------------------

Command Mode

- /exec/elamns/se16

show

show

Syntax Description

show	Show trigger config
------	---------------------

Command Mode

- /exec/elamns/sel7

show

show

Syntax Description

show	Show trigger config
------	---------------------

Command Mode

- /exec/elanms/outse10

show

show

Syntax Description

show	Show trigger config
------	---------------------

Command Mode

- /exec/elamns/outsel5

<i>zero-successors</i>	(Optional) Show only zero successor entries
<i>detail-links</i>	(Optional) Show all links in topology table with details
<i>all-links</i>	(Optional) Show all links in topology table
<i>__readonly__</i>	(Optional)
<i>TABLE_asn</i>	(Optional) AS number table
<i>asn</i>	(Optional) AS number
<i>router_id</i>	(Optional) Router-ID
<i>TABLE_vrf</i>	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
<i>head_serial</i>	(Optional) Head of transmit DNDB thread
<i>next_serial</i>	(Optional) Next serial number to use
<i>route_count</i>	(Optional) Number of Routes in the topology table
<i>replies_pending</i>	(Optional) Number of replies pending
<i>dummies</i>	(Optional) Dummies
<i>eigrp_name</i>	(Optional) EIGRP ddb name
<i>num_if</i>	(Optional) Number of interfaces in this AS
<i>num_neighbors</i>	(Optional) Number of EIGRP neighbors in this AS
<i>num_active_if</i>	(Optional) Number of active interfaces
<i>TABLE_quiescent_if</i>	(Optional) Quiescent Interfaces table
<i>ifname</i>	(Optional) Interface name
<i>TABLE_ent</i>	(Optional) Table entry
<i>ip_prefix</i>	(Optional) IP prefix
<i>ipv6_prefix</i>	(Optional) IPv6 prefix
<i>active</i>	(Optional) Route Active?
<i>num_successors</i>	(Optional) Number of successors for the dndb
<i>feasible_distance</i>	(Optional) Feasible Distance
<i>tag</i>	(Optional) Administrator tag value
<i>send_flag</i>	(Optional) Send Flag
<i>xmit_serno</i>	(Optional) Xmit serial number

<i>xmit_refcount</i>	(Optional) xmit ref count (Number of active senders)
<i>xmit_anchored</i>	(Optional) Xmit anchored?
<i>outstd_replies</i>	(Optional) Number of Outstanding replies
<i>query_origin</i>	(Optional) Query origin
<i>retry_count</i>	(Optional) Number of retries done on the active DNDB
<i>act_min_time</i>	(Optional) Shortest time the destination was active
<i>act_max_time</i>	(Optional) Longest time the destination was active
<i>act_avg_time</i>	(Optional) Average time the destination was active
<i>act_count</i>	(Optional) Active count
<i>peers_sia_stuck</i>	(Optional) Number of peers stuck in SIA
TABLE_succ	(Optional) Successor table
<i>s_nexthop</i>	(Optional) Next hop IPv4 address
<i>s_v6nexthop</i>	(Optional) IPv6 next hop address
<i>s_origin</i>	(Optional) Origin(IPv4) of this DRDB
<i>s_v6origin</i>	(Optional) Origin(IPv6) of this DRDB
<i>s_metric</i>	(Optional) Composite metric value for the route
<i>s_succ_metric</i>	(Optional) Composite metric (successor's view) for the route
<i>s_bandwidth</i>	(Optional) Minimum bandwidth of the path
<i>s_delay</i>	(Optional) Total delay of the path
<i>s_reliability</i>	(Optional) Reliability
<i>s_load</i>	(Optional) Load
<i>s_min_mtu</i>	(Optional) Minimum mtu of the path
<i>s_hop_count</i>	(Optional) Number of hops to reach the destination network
<i>s_int_tag</i>	(Optional) Internal tag
<i>s_reply_status</i>	(Optional) Reply status flag
<i>s_sia_status</i>	(Optional) SIA status flag
<i>s_external</i>	(Optional) Route is external?
<i>s_ext_routerid</i>	(Optional) Originating Router-ID
<i>s_ext_asn</i>	(Optional) AS number where the route info originated

<i>s_ext_proto</i>	(Optional) Protocol which originated this route
<i>s_ext_metric</i>	(Optional) External protocol metric
<i>s_ext_admin_tag</i>	(Optional) External admin flag
<i>s_exterior_flag</i>	(Optional) Exterior flag
<i>s_send_flag</i>	(Optional) DRDB send flag
<i>s_send_flag_hex</i>	(Optional) DRDB Send flag in hex
<i>s_ifname</i>	(Optional) Interface this route info came in on
<i>s_xmit_erno</i>	(Optional) Xmit Serial number of this entry
<i>s_xmit_anchored</i>	(Optional) Xmit anchored flag
TABLE_reply_status	(Optional) Reply-status table
<i>rs_ipaddr</i>	(Optional) IP addr of peer from which replies are pending
<i>rs_ifname</i>	(Optional) Interface on which replies are pending
TABLE_sia_status	(Optional) SIA-status table
<i>ss_ipaddr</i>	(Optional) IP addr of peer from which SIA replies are pending
<i>ss_ifname</i>	(Optional) Interface on which SIA replies are pending
<i>eigrp-ptag</i>	(Optional)

Command Mode

- /exec

show

```
show { { ip eigrp [ <eigrp-ptag> ] neighbors [ detail | state ] { [ <interface> ] | [ <address> ] [ vrf { <vrf-name>
| <vrf-known-name> | all } ] } } } | { ipv6 eigrp [ <eigrp-ptag> ] neighbors [ detail | state ] { [ <interface> ] |
{ [ <ipv6-addr> ] [ vrf { <vrf-name> | <vrf-known-name> | all } ] } } } [ __readonly__ TABLE_asn <asn>
TABLE_vrf <vrf> [ { TABLE_peer <peer_handle> { <peer_ipaddr> | <peer_ipv6addr> } <peer_ifname>
<peer_holdtime> <peer_srtt> <peer_rto> <peer_xmitq_count> <peer_last_seqno> <peer_uptime> [
<peer_static> <peer_nsf_restart_time> <peer_last_startup_serno> <peer_ios_major_ver> <peer_ios_minor_ver>
<peer_eigrp_major_rev> <peer_eigrp_minor_rev> <peer_retrans_count> <peer_retry_count>
<peer_wait_for_init> <peer_wait_for_init_ack> <peer_reinit_start_time> <peer_prefix_count>
<peer_info_stubbed> <peer_info_receive_only> [ <peer_info_allow_connected> <peer_info_allow_statics>
<peer_info_allow_summaries> <peer_info_allow_redist> <peer_info_allow_leaking> ] [ <peer_state_cr_mode>
<peer_state_need_init> <peer_state_need_init_ack> <peer_state_going_down> <peer_state_coming_up>
<peer_state_peer_deleted> <peer_state_nsf_in_progress> <peer_state_need_eot>
<peer_state_use_nsf_startup_mode> <peer_state_await_nsf_convergence> <peer_state_initiated_gr>
<peer_state_cr_sequence> <peer_state_rcv_probe_sequence> <peer_state_send_probe_sequence> ]
<peer_suppress_queries> ] [ TABLE_xmitq_pkts <pkt_qtype> <pkt_counter> <pkt_opcode> <pkt_ack_seqno>
<pkt_start_seqno> <pkt_end_seqno> <pkt_len> <pkt_time_sent> <pkt_init_flag> <pkt_sequenced> } ] [ {
TABLE_suspended_peer { <susp_peer_ipaddr> | <susp_peer_ipv6addr> } <susp_peer_ifname>
<susp_peer_restart_reqd> <susp_peer_restart_time> } ] ] }
```

Syntax Description

show	Show running system information
ip	Display IP information
ipv6	Display IPv6 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
neighbors	IP-EIGRP neighbors
detail	(Optional) Show detailed peer information
state	(Optional) Show detailed peer and state information
<i>interface</i>	(Optional) Interface
<i>address</i>	(Optional) IP-EIGRP neighbor address
__readonly__	(Optional)

TABLE_asn	(Optional) AS number table
<i>asn</i>	(Optional) AS number
TABLE_vrf	(Optional) VRF table
<i>vrf</i>	(Optional) VRF name
TABLE_peer	(Optional) Peer table
<i>peer_handle</i>	(Optional) Peer handle
<i>peer_ipaddr</i>	(Optional) Peer's IP addr
<i>peer_ifname</i>	(Optional) Peering Interface name
<i>peer_holdtime</i>	(Optional) Hold-time for the peer
<i>peer_uptime</i>	(Optional) Peer Up-time
<i>peer_srtd</i>	(Optional) SRTT
<i>peer_rto</i>	(Optional) RTO
<i>peer_xmitq_count</i>	(Optional) Xmit Q count
<i>peer_last_seqno</i>	(Optional) Last received Sequence number
<i>peer_static</i>	(Optional) Static peer?
<i>peer_nsf_restart_time</i>	(Optional) Timestamp of last nsf restart
<i>peer_last_startup_serno</i>	(Optional) Target serial number for unicast startup
<i>peer_ios_major_ver</i>	(Optional) IOS major version
<i>peer_ios_minor_ver</i>	(Optional) IOS minor version
<i>peer_eigrp_major_rev</i>	(Optional) EIGRP major revision
<i>peer_eigrp_minor_rev</i>	(Optional) EIGRP minor revision
<i>peer_retrans_count</i>	(Optional) Number of retransmissions to this peer
<i>peer_retry_count</i>	(Optional) Retries for packets on xmit Q
<i>peer_wait_for_init</i>	(Optional) Waiting for INIT
<i>peer_wait_for_init_ack</i>	(Optional) Waiting for INIT-ACK
<i>peer_reinit_start_time</i>	(Optional) Re-Init start time
<i>peer_prefix_count</i>	(Optional) Number of Prefixes received from the peer
<i>peer_info_stubbed</i>	(Optional) Peer is a Stub?
<i>peer_info_receive_only</i>	(Optional) Peer is receive-only?

<i>peer_info_allow_connected</i>	(Optional) Peer advertises connected routes?
<i>peer_info_allow_statics</i>	(Optional) Peer advertises static routes?
<i>peer_info_allow_summaries</i>	(Optional) Peer advertises summary routes?
<i>peer_info_allow_redist</i>	(Optional) Peer advertises redistributed routes?
<i>peer_info_allow_leaking</i>	(Optional) Peer advertises routes permitted by leak-map?
<i>peer_state_cr_mode</i>	(Optional) Conditional Received mode set?
<i>peer_state_need_init</i>	(Optional) Waiting for Init from peer?
<i>peer_state_need_init_ack</i>	(Optional) Waiting for InitAck from peer?
<i>peer_state_going_down</i>	(Optional) Peer-Going-down?
<i>peer_state_coming_up</i>	(Optional) Peer-Coming-up?
<i>peer_state_peer_deleted</i>	(Optional) Peer-Deleted?
<i>peer_state_nsf_in_progress</i>	(Optional) Peer is nsf restarting?
<i>peer_state_need_eot</i>	(Optional) Expect end-of-table from this peer?
<i>peer_state_use_nsf_startup_mode</i>	(Optional) Use nsf startup method?
<i>peer_state_await_nsf_convergence</i>	(Optional) The peer is waiting eot from us?
<i>peer_state_initiated_gr</i>	(Optional) Initiated graceful restart?
<i>peer_state_cr_sequence</i>	(Optional) Expected sequence number of CR packet
<i>peer_state_rcv_probe_sequence</i>	(Optional) Sequence number of last probe packet received
<i>peer_state_send_probe_sequence</i>	(Optional) Sequence number of next probe to send
<i>peer_suppress_queries</i>	(Optional) Suppress queries to this peer?
TABLE_xmitq_pkts	(Optional) Xmit Q packets table
<i>pkt_qtype</i>	(Optional) XMIT Qtype
<i>pkt_counter</i>	(Optional) Packet counter for the packets present in the transmit queue
<i>pkt_opcode</i>	(Optional) Packet opcode
<i>pkt_ack_seqno</i>	(Optional) Ack/Sequence number of this packet
<i>pkt_start_seqno</i>	(Optional) Starting serial number
<i>pkt_end_seqno</i>	(Optional) Ending serial number
<i>pkt_len</i>	(Optional) Packet length
<i>pkt_time_sent</i>	(Optional) Time at which the packet is transmitted

<i>pkt_init_flag</i>	(Optional) Init-flag should be sent in the packet?
<i>pkt_sequenced</i>	(Optional) Packet is sequenced?
TABLE_suspended_peer	(Optional) Suspended peer table
<i>susp_peer_ipaddr</i>	(Optional) IP address of suspended peer
<i>susp_peer_ifname</i>	(Optional) Interface through which we are connected to the suspended peer
<i>susp_peer_restart_reqd</i>	(Optional) Suspended peer restart required?
<i>susp_peer_restart_time</i>	(Optional) Suspended peer restart time
<i>eigrp-ptag</i>	(Optional)

Command Mode

- /exec

show

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_interface

show_interface <single>

Syntax Description

show_interface	Port_mgr hidden command
<i>single</i>	interface type and number in module/slot format

Command Mode

- /exec

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown MPLS Traffic Engineering

Command Mode

- /exec/configure/te

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Disable current explicit-path

Command Mode

- /exec/configure/te/expl-path

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown the CBTS member LSP

Command Mode

- /exec/configure/tunnel-te/cbts-member

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Administratively shutdown BGP protocol

Command Mode

- /exec/configure/router-bgp

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Administratively shutdown this BMP server

Command Mode

- /exec/configure/router-bgp/router-bgp-bmp-server

shutdown

[no | default] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
shutdown	Administratively shutdown this neighbor

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface

Command Mode

- /exec/configure/if-mgmt-ether

shutdown

[no] shutdown [force]

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface
force	(Optional) Enable/disable an interface

Command Mode

- /exec/configure/if-ethernet /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel /exec/configure/if-eth-port-channel /exec/configure/if-ethernet-all /exec/configure/if-ethernet-p2p /exec/configure/if-remote-ethernet-sub /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p /exec/configure/if-port-channel-sub /exec/configure/if-port-channel-range

shutdown

[no] shutdown [force]

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface
force	(Optional) Enable/disable an interface

Command Mode

- /exec/configure/if-ethernet /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel /exec/configure/if-eth-port-channel /exec/configure/if-ethernet-all /exec/configure/if-ethernet-p2p /exec/configure/if-remote-ethernet-sub /exec/configure/if-ether-sub /exec/configure/if-ether-sub-p2p /exec/configure/if-port-channel-sub

shutdown

[no] shutdown [force]

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface
force	(Optional) Enable/disable an interface

Command Mode

- /exec/configure/if-nve

shutdown

[no] shutdown [force]

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface
force	(Optional) Enable/disable an interface

Command Mode

- /exec/configure/if-loopback

shutdown

[no] shutdown [force]

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface
force	(Optional) Enable/disable an interface

Command Mode

- /exec/configure/if-cpp /exec/configure/if-fv /exec/configure/if-fa /exec/configure/if-svc
/exec/configure/if-fc-tunnel /exec/configure/if-sme /exec/configure/if-ioa /exec/configure/if-overlay
/exec/configure/if-te

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface

Command Mode

- /exec/configure/if-gig-ether /exec/configure/if-fc /exec/configure/if-bay /exec/configure/if-ext /exec/configure/if-vsan /exec/configure/if-iscsi /exec/configure/if-fcip /exec/configure/if-sme /exec/configure/if-ioa /exec/configure/if-san-port-channel

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface

Command Mode

- /exec/configure/if-vfc /exec/configure/if-vfc-port-channel

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface

Command Mode

- /exec/configure/if-vlan-common

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown the OSPF protocol instance

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	

Command Mode

- /exec/configure/catena /exec/configure/catena

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Disable MPLS forwarding for IP

Command Mode

- /exec/configure/ldp

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Change the admin status of the bundle

Command Mode

- /exec/configure/anycast

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown this instance of EIGRP

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown tunnel interface(s)

Command Mode

- /exec/configure/if-any-tunnel

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	

Command Mode

- /exec/configure/itd /exec/configure/itd-inout

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shut down VRRPv3

Command Mode

- /exec/configure/vrrpv3

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shut down the group

Command Mode

- /exec/configure/if-eth-any/vrrpv3

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shut down the pathway

Command Mode

- /exec/configure/if-eth-any/vrrs

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable or disable a VR

Command Mode

- /exec/configure/if-eth-any/vrrp

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	

Command Mode

- /exec/configure/smarte /exec/configure/smarte

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	OpenFlow switch shutdown

Command Mode

- /exec/configure/openflow/switch

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	OpenFlow switch shutdown

Command Mode

- /exec/configure/openflow/switch/sub-switch

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown current VRF

Command Mode

- /exec/configure/vrf

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown this IS-IS process

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown this instance of RIP

Command Mode

- /exec/configure/router-rip /exec/configure/router-rip/router-rip-vrf

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	shutdown the OSPF protocol instance

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

shutdown

[no] shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Shutdown PLB service

Command Mode

- /exec/configure/plb /exec/configure/plb-inout

shutdown

shutdown | no shutdown

Syntax Description

no	Negate a command or set its defaults
shutdown	suspend vPC locally

Command Mode

- /exec/configure/vpc-domain

shutdown force

[no] shutdown force

Syntax Description

no	(Optional) Negate a command or set its defaults
shutdown	Enable/disable an interface
force	Enable/disable an interface

Command Mode

- /exec/configure/if-mgmt-ether

shutdown lan

shutdown lan

Syntax Description

shutdown	Enable/disable an interface
lan	Shut all LAN VLANs on interface

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

shutdown lan

[no] shutdown lan

Syntax Description

no	Negate a command or set its defaults
shutdown	Enable/disable an interface
lan	Shut all LAN VLANs on interface

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

signalling advertise explicit-null

[no] signalling advertise explicit-null | signalling advertise explicit-null [<acl>]

Syntax Description

no	Negate a command or set its defaults
signalling	Traffic Engineering Signalling Parameters
advertise	Signalling advertisement parameters
explicit-null	Advertise explicit-null label in signalling messages
<i>acl</i>	(Optional) Access list

Command Mode

- /exec/configure/te

signalling client batch-time

[no] signalling client batch-time <msec>

Syntax Description

signalling	Configure RSVP Signalling information
client	Client information
batch-time	Time interval between batched messages to client
<i>msec</i>	Batch-time msec [use 0 to disable, else minimum timer value is 20 msec]

Command Mode

- /exec/configure/ip-rsvp

signalling hello graceful-restart

[no] signalling hello graceful-restart

Syntax Description

signalling	Configure RSVP Signalling information
hello	RSVP Hello configuration commands
graceful-restart	RSVP Graceful restart commands

Command Mode

- /exec/configure/ip-rsvp

signalling hello graceful-restart refresh interval

[no] signalling hello graceful-restart refresh interval <value>

Syntax Description

signalling	Configure RSVP Signalling information
hello	RSVP Hello configuration commands
graceful-restart	RSVP Graceful restart commands
refresh	Configure RSVP Hello refresh behavior for Graceful Restart
interval	Time between sending Hello Requests for Graceful Restart
<i>value</i>	Hello interval in msec

Command Mode

- /exec/configure/ip-rsvp

signalling hello graceful-restart refresh misses

[no] signalling hello graceful-restart refresh misses <value>

Syntax Description

signalling	Configure RSVP Signalling information
hello	RSVP Hello configuration commands
graceful-restart	RSVP Graceful restart commands
refresh	Configure RSVP Hello refresh behavior for Graceful Restart
misses	Number of Hello misses for Graceful Restart
<i>value</i>	Number of missed Hello Acks which triggers neighbor down

Command Mode

- /exec/configure/ip-rsvp

signalling hello graceful-restart send recovery-time

[no] signalling hello graceful-restart send recovery-time <value>

Syntax Description

signalling	Configure RSVP Signalling information
hello	RSVP Hello configuration commands
graceful-restart	RSVP Graceful restart commands
send	Configure the restart-time in outgoing Hello msgs
recovery-time	Configure the recovery-time in outgoing GR Hello msgs
<i>value</i>	recovery-time in msec

Command Mode

- /exec/configure/ip-rsvp

signalling hello graceful-restart send restart-time

[no] signalling hello graceful-restart send restart-time <value>

Syntax Description

signalling	Configure RSVP Signalling information
hello	RSVP Hello configuration commands
graceful-restart	RSVP Graceful restart commands
send	Configure the restart-time in outgoing Hello msgs
restart-time	Configure the restart-time in outgoing GR Hello msgs
<i>value</i>	restart-time in msec

Command Mode

- /exec/configure/ip-rsvp

signalling hello reroute

[no] signalling hello reroute

Syntax Description

signalling	Configure RSVP Signalling information
hello	RSVP Hello configuration commands
reroute	RSVP Reroute commands

Command Mode

- /exec/configure/ip-rsvp

signalling initial-retransmit-delay

[no] signalling initial-retransmit-delay <msec>

Syntax Description

signalling	Configure RSVP Signalling information
initial-retransmit-delay	RSVP Initial retransmit delay
<i>msec</i>	Initial retransmit delay in millisecc

Command Mode

- /exec/configure/ip-rsvp

signalling patherr state-removal

[no] signalling patherr state-removal

Syntax Description

signalling	Configure RSVP Signalling information
patherr	Configure Path-Error processing
state-removal	Setup automatic removal of path-state

Command Mode

- /exec/configure/ip-rsvp

signalling rate-limit

```
[no] signalling rate-limit { [ interval <msec> ] [ limit <messages> ] } | { [ limit <messages> ] [ interval <msec> ] }
```

Syntax Description

signalling	Configure RSVP Signalling information
rate-limit	Configure rate-limiting
interval	(Optional) Configure scheduling interval
<i>msec</i>	(Optional) Interval in millisec
limit	(Optional) Configure message limit per scheduling interval
<i>messages</i>	(Optional) Message limit value

Command Mode

- /exec/configure/ip-rsvp

signalling refresh interval

[no] signalling refresh interval <seconds>

Syntax Description

signalling	Configure RSVP Signalling information
refresh	Configure RSVP signaling refresh parameters
interval	Set signaling refresh interval
<i>seconds</i>	Signaling refresh interval in seconds

Command Mode

- /exec/configure/ip-rsvp

signalling refresh misses

[no] signalling refresh misses <value>

Syntax Description

signalling	Configure RSVP Signalling information
refresh	Configure RSVP signaling refresh parameters
misses	Set refresh misses tolerated before expiring a state
<i>value</i>	Refresh miss value

Command Mode

- /exec/configure/ip-rsvp

signalling refresh pace

[no] signalling refresh pace

Syntax Description

signalling	Configure RSVP Signalling information
refresh	Configure RSVP signaling refresh parameters
pace	Pace sending of refresh messages

Command Mode

- /exec/configure/ip-rsvp

signalling refresh reduction

[no] signalling refresh reduction

Syntax Description

signalling	Configure RSVP Signalling information
refresh	Configure RSVP signaling refresh parameters
reduction	Enable, disable or set refresh reduction parameters

Command Mode

- /exec/configure/ip-rsvp

signalling refresh reduction ack-delay

[no] signalling refresh reduction ack-delay <msec>

Syntax Description

signalling	Configure RSVP Signalling information
refresh	Configure RSVP signaling refresh parameters
reduction	Enable, disable or set refresh reduction parameters
ack-delay	Set delay for sending ACK messages
<i>msec</i>	ACK delay value in millisecc

Command Mode

- /exec/configure/ip-rsvp

signalling refresh reduction bundle-max-size

[no] signalling refresh reduction bundle-max-size <value>

Syntax Description

signalling	Configure RSVP Signalling information
refresh	Configure RSVP signaling refresh parameters
reduction	Enable, disable or set refresh reduction parameters
bundle-max-size	Set bundle-maximum-size
<i>value</i>	Bundle size in bytes, use zero to disable bundling

Command Mode

- /exec/configure/ip-rsvp

signalling refresh reduction bundle-transmit-time

[no] signalling refresh reduction bundle-transmit-time <msec>

Syntax Description

signalling	Configure RSVP Signalling information
refresh	Configure RSVP signaling refresh parameters
reduction	Enable, disable or set refresh reduction parameters
bundle-transmit-time	Set bundle-transmit-time
<i>msec</i>	Bundle transmit time value in msec

Command Mode

- /exec/configure/ip-rsvp

signalling refresh reduction rapid-retransmit

[no] signalling refresh reduction rapid-retransmit

Syntax Description

signalling	Configure RSVP Signalling information
refresh	Configure RSVP signaling refresh parameters
reduction	Enable, disable or set refresh reduction parameters
rapid-retransmit	Rapid-retransmit of RSVP messages

Command Mode

- /exec/configure/ip-rsvp

signing level

{ [no] signing level { none | cisco | unsigned } | no signing level }

Syntax Description

no	(Optional) Negate a command or set its defaults
signing	Virtual service package signing settings
level	Package signing level allowed for virtual service installation
none	Most restrictive, don't allow package installation
cisco	Allow only Cisco signed packages
unsigned	Least restrictive, allow unsigned and all signing methods

Command Mode

- /exec/configure/virt-serv-global

site-id

{ site-id <s0> | no site-id }

Syntax Description

no	Negate a command or set its defaults
site-id	site id of the network where switch is deployed
s0	Provide site id

Command Mode

- /exec/configure/callhome

site-of-origin

```
{ site-of-origin { <ext-comm-soo-aa2nn4> | <ext-comm-soo-aa4nn2> } } | { no site-of-origin [ {  
<ext-comm-soo-aa2nn4> | <ext-comm-soo-aa4nn2> } ] }
```

Syntax Description

no	Negate a command or set its defaults
site-of-origin	Site of Origin
<i>ext-comm-soo-aa2nn4</i>	Extcommunity number
<i>ext-comm-soo-aa4nn2</i>	Extcommunity number

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-ether

slave ipv4

[no] slave ipv4 <ip>

Syntax Description

no	(Optional) Negate a command or set its defaults
slave	slave
ipv4	ipv4
<i>ip</i>	IPv4 address (A.B.C.D) of slave

Command Mode

- /exec/configure/ptp-ucast-master

sleep

sleep <i0>

Syntax Description

sleep	Sleep for the specified number of seconds
<i>i0</i>	Enter the number of seconds to sleep

Command Mode

- /exec

sleep instance

[no] sleep instance <inst> [<i0>] | sleep instance <inst> <i0>

Syntax Description

no	Negate a command or set its defaults
sleep	Sleep for the specified number of seconds
instance	Label with an instance number
<i>inst</i>	Instance number
<i>i0</i>	(Optional) Enter the number of seconds to sleep

Command Mode

- /exec/configure

slot

slot <module>

Syntax Description

slot	Configure a slot
<i>module</i>	the slot number (aka module number)

Command Mode

- /exec/configure

slot

```
slot <module> { quoted <quoted-cmd> | <cmd> }
```

Syntax Description

slot	run commands on specific linecard (or set slot for commands that take optional slot number)
<i>module</i>	the slot number (aka module number)
quoted	enter the command with quotes -> pipe redirection and semi-colon are local
<i>quoted-cmd</i>	the command(s) to run on lc separated by <space> <semi-colon> <space>
<i>cmd</i>	the command(s) to run on lc separated by <space> <semi-colon> <space>

Command Mode

- /exec

smart-channel

```
{ smart-channel <service-name> } | { no smart-channel <service-name> }
```

Syntax Description

no	Negate a command or set its defaults
smart-channel	L2 service
<i>service-name</i>	L2 service-name

Command Mode

- /exec/configure

smart-channel internal debug param

[no] smart-channel internal debug param <param-no>

Syntax Description

no	(Optional) Negate a command or set its defaults
smart-channel	service card manager
internal	service card manager
debug	debug parameter for testing purpose only
param	set internal param
<i>param-no</i>	1 - disable failaction

Command Mode

- /exec

smart-channel port-group

{ smart-channel port-group <svc-name> } | { no smart-channel port-group <svc-name> }

Syntax Description

no	Negate a command or set its defaults
smart-channel	service
port-group	port group
<i>svc-name</i>	service-name

Command Mode

- /exec/configure

smtp-host smtp-port reply-to from

```
{ smtp-host { <ipv4> | <ipv6> | <host> } [ smtp-port <port> ] | smtp-port <port> | reply-to <reply> | from <from> |
```

Syntax Description

<i>}</i>	
smtp-host	SMTP server host
<i>ipv4</i>	IPV4 address
<i>host</i>	DNS name
smtp-port	(Optional) SMTP server port
<i>port</i>	(Optional) Port for SMTP server
reply-to	Reply to email address
<i>reply</i>	Provide reply-to email address
from	From email address
<i>from</i>	Provide from email address

Command Mode

- /exec/configure/email

snapshot create

snapshot create <snapshot-name> <snapshot-description>

Syntax Description

snapshot	Create/Delete a snapshot
create	Create a snapshot of running state of selected features
<i>snapshot-name</i>	Name of a snapshot
<i>snapshot-description</i>	Description of a snapshot

Command Mode

- /exec

snapshot delete

snapshot delete <snapshot-name>

Syntax Description

snapshot	Create/Delete a snapshot
delete	Delete a single snapshot or all snapshots
<i>snapshot-name</i>	Name of a snapshot

Command Mode

- /exec

snapshot delete ALL

snapshot delete ALL

Syntax Description

snapshot	Create/Delete a snapshot
delete	Delete a single snapshot or all snapshots
ALL	Delete all snapshots present on the switch

Command Mode

- /exec

snapshot section add

snapshot section add <name> <command> <row-id> <key1> [<key2>]

Syntax Description

snapshot	Create/Delete a snapshot
section	Add/Delete a snapshot section
add	Add a snapshot section
<i>name</i>	Name of a section
<i>command</i>	show' command to generate XML output
<i>row-id</i>	tag of each row entry of the 'show' XML output
<i>key1</i>	first key to distinguish among row entries with
<i>key2</i>	(Optional) second key to distinguish among row entries with

Command Mode

- /exec

snapshot section delete

snapshot section delete <name>

Syntax Description

snapshot	Create/Delete a snapshot
section	Add/Delete a snapshot section
delete	Delete a snapshot section
<i>name</i>	Name of a section

Command Mode

- /exec

snmp-server aaa-user cache-timeout

[no] snmp-server aaa-user cache-timeout <timeout>

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
aaa-user	set duration for which aaa-cached snmp user exists
cache-timeout	timeout for AAA cache
<i>timeout</i>	timeout for which aaa-cached user exists(in secs)

Command Mode

- /exec/configure

snmp-server community

[no] snmp-server community <s0> [{ group <s1> | ro | rw }]

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
community	set community string and access privs
<i>s0</i>	SNMP community string
group	(Optional) Group to which the community belongs
<i>s1</i>	(Optional) Group to which the community belongs
ro	(Optional) Read-only access with this community string
rw	(Optional) Read-write access with this community string

Command Mode

- /exec/configure

snmp-server community

```
{ no snmp-server community <community_name> { use-ipv4acl [ <ipv4_acl_name> ] use-ipv6acl [
<ipv6_acl_name> ] | use-ipv4acl [ <ipv4_acl_name> ] | use-ipv6acl [ <ipv6_acl_name> ] } | snmp-server
community <community_name> { use-ipv4acl <ipv4_acl_name> use-ipv6acl <ipv6_acl_name> | use-ipv4acl
<ipv4_acl_name> | use-ipv6acl <ipv6_acl_name> } }
```

Syntax Description

no	Negate a command or set its defaults
snmp-server	Configure snmp server
community	set community string and access privs
<i>community_name</i>	SNMP community string
use-ipv4acl	Specify IPv4 ACL, the ACL name specified after must be IPv4 ACL.
<i>ipv4_acl_name</i>	(Optional) IPv4 ACL name to filter snmp requests
use-ipv6acl	Specify IPv6 ACL, the ACL name specified after must be IPv6 ACL.
<i>ipv6_acl_name</i>	(Optional) IPv6 ACL name to filter snmp requests

Command Mode

- /exec/configure

snmp-server community use-acl

[no] snmp-server community <community_name> use-acl <acl_name>

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
community	set community string and access privs
<i>community_name</i>	SNMP community string
use-acl	acl name to filter snmp requests
<i>acl_name</i>	acl name to filter snmp requests

Command Mode

- /exec/configure

snmp-server contact

[no] snmp-server contact [<line>]

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
contact	modify sysContact
<i>line</i>	(Optional) modify sysContact

Command Mode

- /exec/configure

snmp-server context

```
[no] snmp-server context <context_name> [ instance <instance-name> ] [ vrf { <vrf-name> | <vrf-known-name>
} ] [ topology <topology-name> ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
context	SNMP context to be mapped
<i>context_name</i>	name of the SNMP context
instance	(Optional) Protocol instance associated with the SNMP context
<i>instance-name</i>	(Optional) Name of the protocol instance
vrf	(Optional) VRF associated with the SNMP context
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
topology	(Optional) Topology associated with the SNMP context
<i>topology-name</i>	(Optional) name of the Topology

Command Mode

- /exec/configure

snmp-server context type len val

[no] snmp-server context <context_name> type { vrf | topology | instance | vlan | mst } len <i2> val <i3>

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
context	SNMP context to be mapped
<i>context_name</i>	name of the SNMP context
type	type of association to context
instance	Protocol instance associated with the SNMP context
vrf	VRF associated with the SNMP context
topology	Topology associated with the SNMP context
vlan	Vlan id associated with the SNMP context
mst	Mst id associated with the SNMP context
len	Length of value
<i>i2</i>	Length of value
val	Value
<i>i3</i>	Value of variable associated with the SNMP context

Command Mode

- /exec/configure

snmp-server counter cache-enable

[no] snmp-server counter cache-enable

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
counter	Configure port counter configuration
cache-enable	Enable port stats cache

Command Mode

- /exec/configure

snmp-server counter cache enable

[no] snmp-server counter cache enable

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
counter	Configure port counter configuration
cache	port stats cache
enable	enable port stats cache

Command Mode

- /exec/configure

snmp-server counter cache timeout

[no] snmp-server counter cache timeout <timeout>

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
counter	Configure port counter configuration
cache	Port stats cache
timeout	Timeout for port stats cache
<i>timeout</i>	Timeout for which cached port stats exists(in secs)

Command Mode

- /exec/configure

snmp-server enable traps

[no] snmp-server enable traps [<trap_arg> [<trap_sub_category> +]]

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
<i>trap_arg</i>	(Optional) Enable __left__ traps
<i>trap_sub_category</i>	(Optional) Enter the trap

Command Mode

- /exec/configure

snmp-server enable traps bgp

[no] snmp-server enable traps bgp [{ state-changes [<subsystem> +] }]

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
bgp	Enable SNMP BGP traps
state-changes	(Optional) Traps for FSM state changes
<i>subsystem</i>	(Optional) subsystem within BGP for SNMP traps

Command Mode

- /exec/configure

snmp-server enable traps bgp cbgp2

[no] snmp-server enable traps bgp cbgp2 [{ state-changes [<subsystem> +] }]

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
bgp	Enable SNMP BGP traps
cbgp2	Enable SNMP CISCO-BGP-MIBv2 traps
state-changes	(Optional) Traps for FSM state changes
<i>subsystem</i>	(Optional) subsystem within BGP for SNMP traps

Command Mode

- /exec/configure

snmp-server enable traps bgp cbgp2 threshold prefix

[no] snmp-server enable traps bgp cbgp2 threshold prefix

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
bgp	Enable SNMP BGP traps
cbgp2	Enable SNMP CISCO-BGP-MIBv2 traps
threshold	Traps for threshold events
prefix	CISCO specific trap for prefix threshold events

Command Mode

- /exec/configure

snmp-server enable traps bgp threshold prefix

[no] snmp-server enable traps bgp threshold prefix

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
bgp	Enable SNMP BGP traps
threshold	Traps for threshold events
prefix	CISCO specific trap for prefix threshold events

Command Mode

- /exec/configure

snmp-server enable traps eigrp

[no] snmp-server enable traps eigrp [<eigrp-ptag>]

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
eigrp	Enable SNMP EIGRP traps
<i>eigrp-ptag</i>	(Optional) Process tag

Command Mode

- /exec/configure

snmp-server enable traps ospf

[no] snmp-server enable traps ospf [<tag>]

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
ospf	Enable SNMP OSPF traps
<i>tag</i>	(Optional) Process tag

Command Mode

- /exec/configure

snmp-server enable traps ospf lsa

[no] snmp-server enable traps ospf [<tag>] lsa

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
ospf	Enable SNMP OSPF traps
<i>tag</i>	(Optional) Process tag
lsa	Allow sending LSA traps

Command Mode

- /exec/configure

snmp-server enable traps ospf rate-limit

```
{ { no snmp-server enable traps ospf [ <tag> ] rate-limit [ <window> <rate> ] } | { snmp-server enable traps ospf [ <tag> ] rate-limit <window> <rate> } }
```

Syntax Description

no	Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
ospf	Enable SNMP OSPF traps
<i>tag</i>	(Optional) Process tag
rate-limit	Trap rate limit values
<i>window</i>	(Optional) Rate limit window size in seconds
<i>rate</i>	(Optional) Max number of traps sent in window time
<i>tag</i>	(Optional)

Command Mode

- /exec/configure

snmp-server enable traps ospfv3

[no] snmp-server enable traps ospfv3 [<tag>]

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
ospfv3	Enable SNMP OSPFv3 traps
<i>tag</i>	(Optional) Process tag

Command Mode

- /exec/configure

snmp-server enable traps ospfv3 lsa

[no] snmp-server enable traps ospfv3 [<tag>] lsa

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
ospfv3	Enable SNMP OSPFv3 traps
<i>tag</i>	(Optional) Process tag
lsa	Enable SNMP OSPFv3 LSA traps

Command Mode

- /exec/configure

snmp-server enable traps ospfv3 rate-limit

```
{ { no snmp-server enable traps ospfv3 [ <tag> ] rate-limit } | { snmp-server enable traps ospfv3 [ <tag> ]
rate-limit <swindow> <rate> } }
```

Syntax Description

no	Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
ospfv3	Enable SNMP OSPFv3 traps
<i>tag</i>	(Optional) Process tag
rate-limit	Trap rate limit values
<i>swindow</i>	Rate limit window size in seconds
<i>rate</i>	Max number of traps sent in window time
<i>tag</i>	(Optional)

Command Mode

- /exec/configure

snmp-server enable traps storm-control trap-rate

[no] snmp-server enable traps storm-control trap-rate <rate-per-minute>

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
enable	Enable SNMP Traps
traps	Enable SNMP traps
storm-control	Enable storm-control traps
trap-rate	Number of traps per minute
<i>rate-per-minute</i>	per Minute (0 means no upper rate)

Command Mode

- /exec/configure

snmp-server engineID local

snmp-server engineID local <engineId> | no snmp-server engineID local [<engineId>]

Syntax Description

no	Negate a command or set its defaults
snmp-server	Configure snmp server
engineID	Configure a local SNMPv3 engineID
local	engineID of the local agent
<i>engineId</i>	engine ID should be an even number of hexadecimal characters, which ranges from 10 to 64 where every two hexadecimal characters should be separated by colon. Including colons-

Command Mode

- /exec/configure

snmp-server force-unload-feature

snmp-server force-unload-feature <feature_name>

Syntax Description

snmp-server	Configure snmp server
force-unload-feature	unload mibs of conditional feature forcefully
<i>feature_name</i>	conditional feature name

Command Mode

- /exec/configure

snmp-server globalEnforcePriv

[no] snmp-server globalEnforcePriv

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
globalEnforcePriv	globally enforce privacy for all the users

Command Mode

- /exec/configure

snmp-server host

```
[no] snmp-server host <host0> { <s6> | [ informs | traps ] } { version { 1 <s0> | 2c <s1> | 3 { auth <s2> | noauth <s3> | priv <s4> } } } | <s5> } } [ udp-port <i1> ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
host	Specify hosts to receive SNMP notifications
<i>host0</i>	IPv4 or IPv6 address or DNS Name of SNMP notification host
informs	(Optional) Send Inform messages to this host
traps	(Optional) Send Traps messages to this host
version	SNMP version to use for notification messages
1	Use SNMPv1
<i>s0</i>	SNMP community string or SNMPv3 user name
udp-port	(Optional) The notification host's UDP port number
<i>i1</i>	(Optional) The notification host's UDP port number
2c	Use SNMPv2c
<i>s1</i>	SNMP community string or SNMPv3 user name
3	Use SNMPv3
auth	Use the SNMPv3 authNoPriv Security Level
<i>s2</i>	SNMP community string or SNMPv3 user name
noauth	Use the SNMPv3 noAuthNoPriv Security Level
<i>s3</i>	SNMP community string or SNMPv3 user name
priv	Use the SNMPv3 authPriv Security Level
<i>s4</i>	SNMP community string or SNMPv3 user name
<i>s5</i>	SNMP community string or SNMPv3 user name
<i>s6</i>	SNMP community string or SNMPv3 user name

Command Mode

- /exec/configure

snmp-server host filter-vrf

[no] snmp-server host <host0> filter-vrf { <vrf-name> | <vrf-known-name> } [udp-port <i1>]

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
host	Specify hosts to receive SNMP notifications
<i>host0</i>	IPv4 or IPv6 address or DNS Name of SNMP notification host
filter-vrf	Filters notifications to the notification host receiver based on the configured VRF
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name
udp-port	(Optional) The notification host's UDP port number
<i>i1</i>	(Optional) The notification host's UDP port number

Command Mode

- /exec/configure

snmp-server host source

[no] snmp-server host <host0> { source-interface <ifName> } [udp-port <i1>]

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
host	Specify hosts to send SNMP notifications
<i>host0</i>	IPv4 or IPv6 address or DNS Name of SNMP notification host
source-interface	Source interface to be used for sending out SNMP notifications to this host
<i>ifName</i>	Source interface name
udp-port	(Optional) The notification host's UDP port number
<i>i1</i>	(Optional) The notification host's UDP port number

Command Mode

- /exec/configure

snmp-server host use-vrf

[no] snmp-server host <host0> use-vrf { <vrf-name> | <vrf-known-name> } [udp-port <i1>]

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
host	Specify hosts to receive SNMP notifications
<i>host0</i>	IPv4 or IPv6 address or DNS Name of SNMP notification host
use-vrf	Configures SNMP to use the selected VRF to communicate with the host receiver
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name
udp-port	(Optional) The notification host's UDP port number
<i>i1</i>	(Optional) The notification host's UDP port number

Command Mode

- /exec/configure

snmp-server host use_vrf

[no] snmp-server host <host0> { use_vrf <s0> | filter_vrf <s1> } [udp-port <i1>]

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
host	Specify hosts to receive SNMP notifications
<i>host0</i>	IPv4 or IPv6 address or DNS Name of SNMP notification host
use_vrf	Configures SNMP to use the selected VRF to communicate with the host receiver
<i>s0</i>	VRF name
filter_vrf	Filters notifications to the notification host receiver based on the configured VRF
<i>s1</i>	VRF name
udp-port	(Optional) The notification host's UDP port number
<i>i1</i>	(Optional) The notification host's UDP port number

Command Mode

- /exec/configure

snmp-server load-cond-feature

[no] snmp-server load-cond-feature <feature_name>

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
load-cond-feature	load or unload mibs of conditional feature
<i>feature_name</i>	conditional feature name

Command Mode

- /exec/configure

snmp-server load-mib

[no] snmp-server load-mib <mib_name>

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
load-mib	load a given mib
<i>mib_name</i>	mib module name

Command Mode

- /exec/configure

snmp-server location

[no] snmp-server location [<line>]

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
location	modify sysLocation
<i>line</i>	(Optional) modify sysLocation

Command Mode

- /exec/configure

snmp-server mib community-map context

[no] snmp-server mib community-map <community_name> context <context_name>

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
mib	mib access parameters
community-map	SNMP community
<i>community_name</i>	SNMP community string
context	SNMP context to be mapped
<i>context_name</i>	name of the SNMP context

Command Mode

- /exec/configure

snmp-server mib mpls vpn max-threshold

[no] snmp-server mib mpls vpn max-threshold <time>

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Modify non engine SNMP parameters
mib	MIB commands
mpls	Configurations for MPLS mibs
vpn	Config special SNMP MPLS VPN objects
max-threshold	Config to control MPLS-VPN max threshold exceeded traps
<i>time</i>	Seconds before re-issuing maximum threshold trap

Command Mode

- /exec/configure

snmp-server protocol enable

[no] snmp-server protocol enable

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
protocol	snmp protocol operations
enable	Enable/Disable snmp protocol operations

Command Mode

- /exec/configure

snmp-server source-interface informs

[no] snmp-server source-interface { informs } <ifName>

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
source-interface	Source interface to be used for sending out SNMP notifications
<i>ifName</i>	Source interface name
informs	SNMP Inform notifications for which this source interface needs to be used

Command Mode

- /exec/configure

snmp-server source-interface traps

[no] snmp-server source-interface { traps } <ifName>

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
source-interface	Source interface to be used for sending out SNMP notifications
<i>ifName</i>	Source interface name
traps	SNMP Trap notifications for which this source interface needs to be used

Command Mode

- /exec/configure

snmp-server system-shutdown

[no] snmp-server system-shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
system-shutdown	Configure snmp-server for reload(2)

Command Mode

- /exec/configure

snmp-server tcp-session

[no] snmp-server tcp-session [auth]

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
tcp-session	Enable one time authentication for snmp over tcp session.
auth	(Optional) Enable one time authentication for snmp over tcp session.

Command Mode

- /exec/configure

snmp-server user

```
{ no snmp-server user <user_name> { use-ipv4acl [ <ipv4_acl_name> ] use-ipv6acl [ <ipv6_acl_name> ] |
use-ipv4acl [ <ipv4_acl_name> ] | use-ipv6acl [ <ipv6_acl_name> ] } | snmp-server user <user_name> {
use-ipv4acl <ipv4_acl_name> use-ipv6acl <ipv6_acl_name> | use-ipv4acl <ipv4_acl_name> | use-ipv6acl
<ipv6_acl_name> } }
```

Syntax Description

no	Negate a command or set its defaults
snmp-server	Configure snmp server
user	Define a user who can access the SNMP engine
<i>user_name</i>	Name of the user
use-ipv4acl	Specify IPv4 ACL, the ACL name specified after must be IPv4 ACL.
<i>ipv4_acl_name</i>	(Optional) IPv4 ACL name to filter snmp requests
use-ipv6acl	Specify IPv6 ACL, the ACL name specified after must be IPv6 ACL.
<i>ipv6_acl_name</i>	(Optional) IPv6 ACL name to filter snmp requests

Command Mode

- /exec/configure

snmp-server user

```
[no] snmp-server user <s0> { enforcePriv | { [ <s1> ] { [ auth { md5 | sha } <s2> { { priv [ aes-128 ] } { <s3>
[ localizedkey ] [ { auto | engineID <s4> } ] } } | { [ localizedkey1 ] [ { auto1 | engineID1 <s5> } ] } } } }
}
```

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp-server	Configure snmp server
user	Define a user who can access the SNMP engine
s0	Name of the user
enforcePriv	Enforce privacy for the user
s1	(Optional) Group name (ignored for notif target user)
auth	(Optional) authentication parameters for the user
md5	(Optional) Use HMAC MD5 algorithm for authentication
sha	(Optional) Use HMAC SHA algorithm for authentication
s2	(Optional) authentication password for user
priv	(Optional) encryption parameters for the user
aes-128	(Optional) Use 128-bit AES algorithm for privacy
s3	(Optional) privacy password for user
localizedkey	(Optional) specifies whether the passwords are in localized key format
auto	(Optional) specifies whether the user is auto created (volatile)
engineID	(Optional) engineID for configuring notif target user (for V3 informs)
s4	(Optional) Specifies notification target's SNMP engineID. Should be an octet of either Decimal (range: 0 to 255) or Hexadecimal (range: 0 to FF) value, each octet being separated by colon. Hexadecimal value should have prefix of 0x or 0X. Including colons-
localizedkey1	(Optional) specifies whether the passwords are in localized key format
auto1	(Optional) specifies whether the user is auto created (volatile)
engineID1	(Optional) engineID for configuring notif target user (for V3 informs)
s5	(Optional) Specifies notification target's SNMP engineID. Should be an octet of either Decimal (range: 0 to 255) or Hexadecimal (range: 0 to FF) value, each octet being separated by colon. Hexadecimal value should have prefix of 0x or 0X. Including colons-

Command Mode

- /exec/configure

snmp-trap event-type policy-name

```
snmp-trap [ intdata1 <integer-data1> ] [ intdata2 <integer-data2> ] [ strdata <string-data> ] event-type <ev_type>
policy-name <name>
```

Syntax Description

snmp-trap	Send
intdata1	(Optional) Enter
<i>integer-data1</i>	(Optional) Integer
intdata2	(Optional) Enter
<i>integer-data2</i>	(Optional) Integer
strdata	(Optional) Enter
<i>string-data</i>	(Optional) String
event-type	Event type
<i>ev_type</i>	Event type
policy-name	Policy Name
<i>name</i>	Policy Name

Command Mode

- /exec

snmp ifmib ifalias long

[no] snmp ifmib ifalias long

Syntax Description

no	(Optional) Negate a command or set its defaults
snmp	Configure snmp
ifmib	Configure snmp interface mib feature
ifalias	Configure snmp interface alias attribute for interface mib
long	Enable long description up to 256 characters for interface alias

Command Mode

- /exec/configure

snmp trap link-status

snmp trap link-status | no snmp trap link-status

Syntax Description

no	Negate a command or set its defaults
snmp	Modify SNMP interface parameters
trap	Allow a specific SNMP trap
link-status	Allow SNMP LINKUP and LINKDOWN traps

Command Mode

- /exec/configure/if-ether-sub /exec/configure/if-port-channel-sub /exec/configure/if-gig-ether-sub /exec/configure/if-remote-ethernet-sub /exec/configure/if-ether-sub-p2p

snmp trap link-status

snmp trap link-status

Syntax Description

snmp	Modify SNMP interface parameters
trap	Allow a specific SNMP trap
link-status	Allow SNMP LINKUP and LINKDOWN traps

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel /exec/configure/if-port-channel-range

snmp trap link-status

[no] snmp trap link-status

Syntax Description

no	Negate a command or set its defaults
snmp	Modify SNMP interface parameters
trap	Allow a specific SNMP trap
link-status	Allow SNMP LINKUP and LINKDOWN traps

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base /exec/configure/if-port-channel /exec/configure/if-port-channel-range

snmp trap link-status

snmp trap link-status | no snmp trap link-status

Syntax Description

no	Negate a command or set its defaults
snmp	Modify SNMP interface parameters
trap	Allow a specific SNMP trap
link-status	Allow SNMP LINKUP and LINKDOWN traps

Command Mode

- /exec/configure/if-mgmt-ether

snmp trap link-status

snmp trap link-status | no snmp trap link-status

Syntax Description

no	Negate a command or set its defaults
snmp	Modify SNMP interface parameters
trap	Allow a specific SNMP trap
link-status	Allow SNMP LINKUP and LINKDOWN traps

Command Mode

- /exec/configure/if-vlan-common

snmp trap link-status

snmp trap link-status | no snmp trap link-status

Syntax Description

no	Negate a command
snmp	Modify SNMP interface parameters
trap	Allow a specific SNMP trap
link-status	Allow SNMP LINKUP and LINKDOWN traps

Command Mode

- /exec/configure/if-any-tunnel

snsr-grp sample-interval

snsr-grp <sn-grp-id> sample-interval <cadence> | no snsr-grp <sn-grp-id>

Syntax Description

no	Negate a command or set its defaults
snsr-grp	Associated sensor group
sample-interval	Cadence Time in milliseconds(0 for events)
<i>sn-grp-id</i>	Identifier
<i>cadence</i>	Cadence Time in milliseconds

Command Mode

- /exec/configure/telemetry/subscription

sockets internal event-history size

[no] sockets internal event-history { errors | setup | ha | event | proto | log } size { <size_in_text> | <size_in_Kbytes> }

Syntax Description

no	(Optional) Negate a command or set its defaults
sockets	Display sockets status and configuration
internal	Commands for internal use
event-history	various event logs of sockets
errors	error logs of sockets
setup	setup debug message of sockets
ha	ha debug message of sockets
event	events/pcb debug message of sockets
proto	tcp/udp/raw ip debug message of sockets
log	syslog message of sockets
size	Configure the size of the event-hist buffer
<i>size_in_text</i>	Buffer size
<i>size_in_Kbytes</i>	Size of the file in kbytes

Command Mode

- /exec

sockets local-port-range

```
{ { no sockets local-port-range } | { sockets local-port-range <start-port> <end-port> } }
```

Syntax Description

<code>no</code>	Negate a command or set its defaults
<code>sockets</code>	Negate a command or set its defaults
<code>local-port-range</code>	Define local port range for Kstack. Note: This CLI requires switch to be reloaded
<code>start-port</code>	Start port of local port range
<code>end-port</code>	End port of local port range

Command Mode

- `/exec/configure /exec/configure/config-mgmt`

soft-reconfiguration inbound

{ soft-reconfiguration inbound [always] } | { no soft-reconfiguration inbound } | { default soft-reconfiguration inbound }

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
soft-reconfiguration	Soft reconfiguration
inbound	Allow inbound soft reconfiguration
always	(Optional) Always perform inbound soft reconfiguration

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-evpn
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

soft-reconfiguration inbound

{ soft-reconfiguration inbound [always] } | { no soft-reconfiguration inbound } | { default soft-reconfiguration inbound }

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
soft-reconfiguration	Soft reconfiguration
inbound	Allow inbound soft reconfiguration
always	(Optional) Always perform inbound soft reconfiguration

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt

soo auto

```
{ [ no ] soo { auto | <ext-comm-soo-aa2nn4> | <ext-comm-soo-aa4nn2> } } | { default soo }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
default	Inherit values from a peer template
soo	Specify Site-of-origin extcommunity
auto	Generate SOO automatically
<i>ext-comm-soo-aa4nn2</i>	VPN extcommunity in aa4:nn or ip:nn format
<i>ext-comm-soo-aa2nn4</i>	VPN extcommunity in aa:nn format

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv4
- /exec/configure/router-bgp/router-bgp-vrf-neighbor/router-bgp-vrf-neighbor-af-ipv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

sort

| sort [-b | -d | -f | -g | -i | -M | -n | -r | -k <key> | -t <delim> | -u] +

Syntax Description

	Pipe command output to filter
sort	Stream Sorter
-b	(Optional) ignore leading blanks
-d	(Optional) consider only blanks and alphanumeric characters
-f	(Optional) fold lower case to upper case characters
-g	(Optional) compare according to general numerical value
-i	(Optional) consider only printable characters
-M	(Optional) month sort
-n	(Optional) compare according to string numerical value
-r	(Optional) reverse the result of comparisons
-k	(Optional) provide a key
-t	(Optional) use different separator instead of non-blank to blank transition
-u	(Optional) remove duplicate lines
<i>key</i>	(Optional) key in format POS1[,POS2] with POS = <field-nb>[.<char-pos>][<ordering>]
<i>delim</i>	(Optional) field delimiter char

Command Mode

- /output

source-group

[no] source-group <source> <group>

Syntax Description

no	(Optional) Negate a command or set its defaults
source-group	Source Group
<i>source</i>	Configure source address
<i>group</i>	Configure group address

Command Mode

- /exec/configure/if-nve

source-interface

[no] source-interface | source-interface <interface>

Syntax Description

no	Negate a command or set its defaults
source-interface	Source interface to be used to reach radius server
<i>interface</i>	Interface (default is mgmt)

Command Mode

- /exec/configure/radius

source-interface

[no] source-interface | source-interface <interface>

Syntax Description

no	Negate a command or set its defaults
source-interface	Source interface to be used to reach tacacs server
<i>interface</i>	Interface (default is mgmt)

Command Mode

- /exec/configure/tacacs+

source-interface

source-interface <interface> | no source-interface

Syntax Description

no	Negate a command or set its defaults
source-interface	NVE Source-Interface
<i>interface</i>	

Command Mode

- /exec/configure/if-nve

source-interface

[no] source-interface <interface>

Syntax Description

no	(Optional) Negate a command or set its defaults
source-interface	PLB probe Source-Interface
<i>interface</i>	source interface for probe

Command Mode

- /exec/configure/plb

source-interface hold-down-time

[no] source-interface hold-down-time <sec>

Syntax Description

no	(Optional) Negate a command or set its defaults
source-interface	NVE Source-Interface
hold-down-time	Hold source loopback down time
<i>sec</i>	time in seconds

Command Mode

- /exec/configure/if-nve

source

source { <ipaddr> } | no source

Syntax Description

no	Negate a command or set its defaults
source	source of tunnel packets
<i>ipaddr</i>	ip address (A.B.C.D)

Command Mode

- /exec/configure/if-te

source

{ source { <numeric1> | <numeric2> } | no source }

Syntax Description

no	Negate a command or set its defaults
source	Source
<i>numeric1</i>	IP

Command Mode

- /exec/configure/configngoamconnectcheck

source

{ [no] source <intf> | no source }

Syntax Description

source	Source Interface for this destination
<i>intf</i>	Interface

Command Mode

- /exec/configure/nfm-exporter

source

source <srcip> | no source

Syntax Description

no	Negate a command or set its defaults
source	Source address for connection to controllers
<i>srcip</i>	IP address of source

Command Mode

- /exec/configure/openflow/switch

source

source [background] <file> [<args>] +

Syntax Description

source	run a script (python, tcl,...) from bootflash:scripts
background	(Optional) run the script in the background, see also 'show background' and 'kill background'
<i>file</i>	the script file to run
<i>args</i>	(Optional) argument to be passed to script

Command Mode

- /exec

source

| source <file> [<args>] +

Syntax Description

	Pipe command output to filter
source	run a script (python, tcl,...) from bootflash:scripts
<i>file</i>	the script file to run
<i>args</i>	(Optional) argument to be passed to script

Command Mode

- /output

source copy-sys

source copy-sys

Syntax Description

source	run a script (python, tcl,...) from bootflash:scripts
copy-sys	copy the system provided example scripts of /sys to bootflash:scripts

Command Mode

- /exec

source filter ip

```
[no] source filter ip { <ip-addr> <ip-mask> } [ ip | { { udp | tcp } { <port_num> | any } } ] [ { arp | advertise } { enable | disable } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
source	source ip configuration
filter	source filters
ip	source ip
<i>ip-addr</i>	IP address in format i.i.i.i
<i>ip-mask</i>	IP network mask in format m.m.m.m
ip	(Optional) IP Protocol
udp	(Optional) UDP Protocol
tcp	(Optional) TCP Protocol
<i>port_num</i>	(Optional) Port Number
any	(Optional) Any Port Number
arp	(Optional) ARP
advertise	(Optional) advertise
enable	(Optional) Enable
disable	(Optional) Disable

Command Mode

- /exec/configure/smartc

source filter ip any any

[no] source filter ip any any

Syntax Description

no	(Optional) Negate a command or set its defaults
source	source ip configuration
filter	source filters
ip	source ip
any	Any IP

Command Mode

- /exec/configure/smartc

spanning-tree bpdudfilter

spanning-tree bpdudfilter <port-bpdudfilter> | no spanning-tree bpdudfilter [<port-bpdudfilter>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
bpdudfilter	Don't send or receive BPDUs on this interface
<i>port-bpdudfilter</i>	Don't send or receive BPDUs on this interface

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree bpduguard

spanning-tree bpduguard <port-bpduguard> | no spanning-tree bpduguard [<port-bpduguard>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
bpduguard	Don't accept BPDUs on this interface
<i>port-bpduguard</i>	Don't accept BPDUs on this interface

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree bridge-domain

[no] spanning-tree bridge-domain <bd-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11

Command Mode

- /exec/configure

spanning-tree bridge assurance

[no] spanning-tree bridge assurance

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
bridge	Spanning tree bridge options
assurance	Enable Bridge Assurance on all network ports

Command Mode

- /exec/configure

spanning-tree cost

spanning-tree [vlan <vlan-id> | bridge-domain <bd-id>] cost <port-cost> | no spanning-tree [vlan <vlan-id> | bridge-domain <bd-id>] cost [<port-cost>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
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>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
cost	Change an interface's spanning tree port path cost
<i>port-cost</i>	port path cost

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree cost auto

[no] spanning-tree [vlan <vlan-id> | bridge-domain <bd-id>] cost auto

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
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
cost	Change an interface's spanning tree port path cost
auto	Determine cost based on media speed of this interface

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree domain

spanning-tree domain { enable | disable | <domain-id> } | no spanning-tree domain [enable]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
domain	Spanning Tree Domain
enable	Enable Spanning Tree Domain
disable	Disable Spanning Tree Domain
<i>domain-id</i>	Domain Identifier

Command Mode

- /exec/configure

spanning-tree domain clear statistics

spanning-tree domain clear statistics

Syntax Description

spanning-tree	Spanning Tree Subsystem
domain	Spanning Tree Domain
clear	Clear
statistics	Clear Statistics

Command Mode

- /exec/configure

spanning-tree fcoe

[no] spanning-tree fcoe

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
fcoe	Enable STP for FCoE VLANs

Command Mode

- /exec/configure

spanning-tree guard

spanning-tree guard <guard-type> | no spanning-tree guard [<guard-type>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
guard	Change an interface's spanning tree guard mode
<i>guard-type</i>	Change an interface's spanning tree guard mode

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree lc-issu

spanning-tree lc-issu <issu-type> | no spanning-tree lc-issu [<issu-type>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
lc-issu	Configure Linecard ISSU type
<i>issu-type</i>	ISSU Type

Command Mode

- /exec/configure

spanning-tree lc-issu

spanning-tree lc-issu <port-issu-type> | no spanning-tree lc-issu [<port-issu-type>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
lc-issu	Configure Linecard ISSU type
<i>port-issu-type</i>	ISSU Type

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree link-type

spanning-tree link-type <link-type-val> | no spanning-tree link-type [<link-type-val>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
link-type	Specify a link type for spanning tree tree protocol use
<i>link-type-val</i>	Specify a link type for spanning tree tree protocol use

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree loopguard default

[no] spanning-tree loopguard default

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
loopguard	Spanning tree loopguard options
default	Enable loopguard by default on all ports

Command Mode

- /exec/configure

spanning-tree mode

spanning-tree mode <stp-mode> | no spanning-tree mode [<stp-mode>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mode	Spanning Tree operating mode
<i>stp-mode</i>	Spanning Tree operating mode

Command Mode

- /exec/configure

spanning-tree mst configuration

spanning-tree mst configuration

Syntax Description

spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
configuration	Enter MST configuration submode

Command Mode

- /exec/configure

spanning-tree mst configuration

[no] spanning-tree mst configuration

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
configuration	Enter MST configuration submenu

Command Mode

- /exec/configure

spanning-tree mst cost

spanning-tree mst <mst-id> cost <port-cost> | no spanning-tree mst <mst-id> cost [<port-cost>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree
<i>mst-id</i>	MST instance list, example 0,2-4,6,8-12
cost	Change an interface's spanning tree port path cost
<i>port-cost</i>	port path cost

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree mst cost auto

[no] spanning-tree mst <mst-id> cost auto

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree
<i>mst-id</i>	MST instance list, example 0,2-4,6,8-12
cost	Change an interface's spanning tree port path cost
auto	Determine cost based on media speed of this interface

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree mst forward-time

spanning-tree mst forward-time <fwd-time> | no spanning-tree mst forward-time [<fwd-time>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
forward-time	Set the forward delay for the spanning tree
<i>fwd-time</i>	number of seconds for the forward delay timer

Command Mode

- /exec/configure

spanning-tree mst hello-time

spanning-tree mst hello-time <hello-time-val> | no spanning-tree mst hello-time [<hello-time-val>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
hello-time	Set the hello interval for the spanning tree
<i>hello-time-val</i>	number of seconds between generation of config bpdu

Command Mode

- /exec/configure

spanning-tree mst max-age

spanning-tree mst max-age <max-age-val> | no spanning-tree mst max-age [<max-age-val>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
max-age	Set the max age interval for the spanning tree
<i>max-age-val</i>	maximum number of seconds the information in a bpdu is valid

Command Mode

- /exec/configure

spanning-tree mst max-hops

spanning-tree mst max-hops <max-hops-val> | no spanning-tree mst max-hops [<max-hops-val>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
max-hops	Set the max hops value for the spanning tree
<i>max-hops-val</i>	maximum number of hops a BPDU is valid

Command Mode

- /exec/configure

spanning-tree mst port-priority

spanning-tree mst <mst-id> port-priority <port-prio> | no spanning-tree mst <mst-id> port-priority [<port-prio>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree
<i>mst-id</i>	MST instance list, example 0,2-4,6,8-12
port-priority	Change an interface's spanning tree port priority
<i>port-prio</i>	Spanning-tree port priority

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree mst pre-standard

[no] spanning-tree mst pre-standard

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree
pre-standard	Force pre-standard MST BPDU transmission on port

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree mst priority

spanning-tree mst <mst-id> priority <prio> | no spanning-tree mst <mst-id> priority [<prio>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
<i>mst-id</i>	MST instance range, example: 0-3,5,7-9
priority	Set the bridge priority for the spanning tree
<i>prio</i>	bridge priority in increments of 4096

Command Mode

- /exec/configure

spanning-tree mst root

spanning-tree mst <mst-id> root <root-type> [diameter <diameter-val> [hello-time <hello-time-val>]] | no spanning-tree mst <mst-id> root [<root-type> [diameter <diameter-val> [hello-time <hello-time-val>]]]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
<i>mst-id</i>	MST instance range, example: 0-3,5,7-9
diameter	(Optional) Network diameter of this spanning tree
<i>diameter-val</i>	(Optional) Maximum number of bridges between any two end nodes
root	configure switch as root
<i>root-type</i>	configure switch as root
hello-time	(Optional) Set the hello interval for the spanning tree
<i>hello-time-val</i>	(Optional) number of seconds between generation of config bpdu

Command Mode

- /exec/configure

spanning-tree mst simulate pvst

[no] spanning-tree mst simulate pvst [<simpvst-disable>]

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree
simulate	Enable spanning tree simulation
pvst	Enable PVST simulation
<i>simpvst-disable</i>	(Optional) Disable PVST simulation on this interface

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree mst simulate pvst global

[no] spanning-tree mst simulate pvst global

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
mst	Multiple spanning tree configuration
simulate	Enable spanning tree simulation
pvst	Enable PVST simulation
global	Enable PVST Simulation by default on all ports

Command Mode

- /exec/configure

spanning-tree pathcost method

spanning-tree pathcost method <method-val> | no spanning-tree pathcost method [<method-val>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
pathcost	Spanning tree pathcost options
method	Method to calculate default port path cost
<i>method-val</i>	Method to calculate default port path cost

Command Mode

- /exec/configure

spanning-tree port-priority

spanning-tree [vlan <vlan-id> | bridge-domain <bd-id>] port-priority <port-prio> | no spanning-tree [vlan <vlan-id> | bridge-domain <bd-id>] port-priority [<port-prio>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
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
port-priority	Change an interface's spanning tree port priority
<i>port-prio</i>	Spanning-tree port priority

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree port type

spanning-tree port type <port-type> | no spanning-tree port type [<port-type>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
port	Spanning tree port options
type	Specify a port type for spanning tree protocol use
<i>port-type</i>	Specify a port type for spanning tree protocol use

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree port type edge bpdufilter default

[no] spanning-tree port type edge bpdufilter default

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
port	Spanning tree port options
type	Specify a port type for spanning tree protocol use
edge	Consider the interface as edge port (enable portfast)
bpdufilter	Enable edge port (portfast) bpdu filter on this switch
default	Enable bdpu filter by default on all edge (portfast) ports

Command Mode

- /exec/configure

spanning-tree port type edge bpduguard default

[no] spanning-tree port type edge bpduguard default

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
port	Spanning tree port options
type	Specify a port type for spanning tree protocol use
edge	Consider the interface as edge port (enable portfast)
bpduguard	Enable edge port (portfast) bpdu guard on this switch
default	Enable bpdu guard by default on all edge (portfast) ports

Command Mode

- /exec/configure

spanning-tree port type edge default

[no] spanning-tree port type edge default

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
port	Spanning tree port options
type	Specify a port type for spanning tree protocol use
edge	Consider the interface as edge port (enable portfast)
default	Select edge port type by default on all access ports

Command Mode

- /exec/configure

spanning-tree port type edge trunk

spanning-tree port type edge trunk | no spanning-tree port type edge trunk

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
port	Spanning tree port options
type	Specify a port type for spanning tree protocol use
edge	Consider the interface as edge port (enable portfast)
trunk	Consider the interface as edge port (enable portfast) even in trunk mode

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree port type network default

[no] spanning-tree port type network default

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
port	Spanning tree port options
type	Specify a port type for spanning tree protocol use
network	Consider the interface as inter-switch link
default	Select network port type by default on all ports

Command Mode

- /exec/configure

spanning-tree portfast

spanning-tree portfast [<port-portfast>] | no spanning-tree portfast [<port-portfast>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
portfast	Enable an interface to move directly to fwd on link up
<i>port-portfast</i>	(Optional) Enable an interface to move directly to fwd on link up

Command Mode

- /exec/configure/if-switching /exec/configure/if-ethernet-switch-m

spanning-tree portfast bpdudfilter default

[no] spanning-tree portfast bpdudfilter default

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
portfast	Enable an interface to move directly to fwd on link up
bpdudfilter	Enable portfast bpdu filter on this switch
default	Enable bpdu filter by default on all portfast ports

Command Mode

- /exec/configure

spanning-tree portfast bpduguard default

[no] spanning-tree portfast bpduguard default

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
portfast	Enable an interface to move directly to fwd on link up
bpduguard	Enable portfast bpdu guard on this switch
default	Enable bpdu guard by default on all portfast ports

Command Mode

- /exec/configure

spanning-tree portfast default

[no] spanning-tree portfast default

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
portfast	Enable an interface to move directly to fwd on link up
default	Enable portfast by default on all access ports

Command Mode

- /exec/configure

spanning-tree pseudo-information

spanning-tree pseudo-information

Syntax Description

spanning-tree	Spanning Tree Subsystem
pseudo-information	configure spanning tree pseudo information

Command Mode

- /exec/configure

spanning-tree vlan

[no] spanning-tree vlan <vlan-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	VLAN Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11

Command Mode

- /exec/configure

spanning-tree vlan forward-time

spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } forward-time <fwd-time> | no spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } forward-time [<fwd-time>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	VLAN Switch Spanning Trees
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
forward-time	Set the forward delay for the spanning tree
<i>fwd-time</i>	number of seconds for the forward delay timer

Command Mode

- /exec/configure

spanning-tree vlan hello-time

spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } hello-time <hello-time-val> | no spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } hello-time [<hello-time-val>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	VLAN Switch Spanning Trees
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
hello-time	Set the hello interval for the spanning tree
<i>hello-time-val</i>	number of seconds between generation of config bpdu

Command Mode

- /exec/configure

spanning-tree vlan max-age

spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } max-age <max-age-val> | no spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } max-age [<max-age-val>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	VLAN Switch Spanning Trees
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
max-age	Set the max age interval for the spanning tree
<i>max-age-val</i>	maximum number of seconds the information in a bpdu is valid

Command Mode

- /exec/configure

spanning-tree vlan priority

spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } priority <prio> | no spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } priority [<prio>]

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	VLAN Switch Spanning Trees
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
priority	Set the bridge priority for the spanning tree
<i>prio</i>	bridge priority in increments of 4096

Command Mode

- /exec/configure

spanning-tree vlan root

```
spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } root <root-type> [ diameter <diameter-val> [
hello-time <hello-time-val> ] ] | no spanning-tree { vlan <vlan-id> | bridge-domain <bd-id> } root [ <root-type>
[ diameter <diameter-val> [ hello-time <hello-time-val> ] ] ]
```

Syntax Description

no	Negate a command or set its defaults
spanning-tree	Spanning Tree Subsystem
vlan	VLAN Switch Spanning Trees
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
diameter	(Optional) Network diameter of this spanning tree
<i>diameter-val</i>	(Optional) Maximum number of bridges between any two end nodes
root	configure switch as root
<i>root-type</i>	configure switch as root
hello-time	(Optional) Set the hello interval for the spanning tree
<i>hello-time-val</i>	(Optional) number of seconds between generation of config bpdu

Command Mode

- /exec/configure

speed-group

speed-group <gspeed_val> | no speed-group [<gspeed_val>]

Syntax Description

no	Negate a command or set its defaults
speed-group	port group speed
<i>gspeed_val</i>	Interface port speed

Command Mode

- /exec/configure/if-eth-base

speed

speed { <speed_val> }

Syntax Description

speed	Enter the port speed
<i>speed_val</i>	Interface port speed

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

speed

speed { <speed_val> }

Syntax Description

speed	Enter the port speed
<i>speed_val</i>	Interface port speed

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member

speed

```
speed { <speed_val> }
```

Syntax Description

speed	Enter the port speed
<i>speed_val</i>	Interface port speed

Command Mode

- /exec/configure/if-port-channel

speed

```
[no] speed [ { <speed_val> | auto [ 100 [ 1000 ] ] } ]
```

Syntax Description

no	Negate a command or set its defaults
speed	Enter the port speed
<i>speed_val</i>	(Optional) Interface port speed
auto	(Optional) auto negotiate speed
100	(Optional) 100 Mbps speed
1000	(Optional) 1000 Mbps speed

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

speed

speed { <speed_val> }

Syntax Description

speed	Enter the port speed
<i>speed_val</i>	Interface port speed

Command Mode

- /exec/configure/if-mgmt-ether

speed

```
[no] speed [ { <speed_val> | auto [ 100 [ 1000 ] ] } ]
```

Syntax Description

no	Negate a command or set its defaults
speed	Enter the port speed
<i>speed_val</i>	(Optional) Interface port speed
auto	(Optional) auto negotiate speed
100	(Optional) 100 Mbps speed
1000	(Optional) 1000 Mbps speed

Command Mode

- /exec/configure/if-mgmt-ether

speed

[no] speed <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
speed	Set the transmit and receive speeds
<i>i0</i>	Transmit and receive speeds

Command Mode

- /exec/configure/com1

speed

[no] speed <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
speed	Set the transmit and receive speeds
<i>i0</i>	Transmit and receive speeds

Command Mode

- /exec/configure/console

speed auto

speed auto

Syntax Description

speed	Enter the port speed
auto	auto negotiate speed

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

speed auto

speed auto

Syntax Description

speed	Enter the port speed
auto	auto negotiate speed

Command Mode

- /exec/configure/if-mgmt-ether

speed auto 100

speed auto 100

Syntax Description

speed	Enter the port speed
auto	auto negotiate speed
100	100 Mbps speed

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

speed auto 100

speed auto 100

Syntax Description

speed	Enter the port speed
auto	auto negotiate speed
100	100 Mbps speed

Command Mode

- /exec/configure/if-mgmt-ether

speed auto 100 1000

speed auto 100 1000

Syntax Description

speed	Enter the port speed
auto	auto negotiate speed
100	100 Mbps speed
1000	1000 Mbps speed

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

speed auto 100 1000

speed auto 100 1000

Syntax Description

speed	Enter the port speed
auto	auto negotiate speed
100	100 Mbps speed
1000	1000 Mbps speed

Command Mode

- /exec/configure/if-mgmt-ether

spf-interval

spf-interval <max-wait> [<initial-wait> <second-wait>] | no spf-interval <max-wait> [<initial-wait> <second-wait>]

Syntax Description

no	Negate a command or set its defaults
spf-interval	Configure SPF interval
<i>max-wait</i>	Maximum wait between trigger and SPF computation (milli-secs)
<i>initial-wait</i>	(Optional) Initial wait between trigger and SPF computation (milli-secs)
<i>second-wait</i>	(Optional) Second wait between trigger and SPF computation (milli-secs)

Command Mode

- /exec/configure/otv-isis/otv-isis-vrf-common

spf-interval

spf-interval <level> <max-wait> [<initial-wait> <second-wait>] | no spf-interval <level> <max-wait> [<initial-wait> <second-wait>]

Syntax Description

no	Negate a command or set its defaults
spf-interval	Configure SPF interval
<i>level</i>	IS-IS level
<i>max-wait</i>	Maximum wait between trigger and SPF computation (milli-secs)
<i>initial-wait</i>	(Optional) Initial wait between trigger and SPF computation (milli-secs)
<i>second-wait</i>	(Optional) Second wait between trigger and SPF computation (milli-secs)

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

spf mode incremental

[no] spf mode incremental

Syntax Description

no	(Optional) Negate a command or set its defaults
spf	Configure route computation related settings
mode	Set the mode of spf computation
incremental	If possible, recompute only parts of the SPT

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

spf mode incremental

[no] spf mode incremental

Syntax Description

no	(Optional) Negate a command or set its defaults
spf	Configure route computation related settings
mode	Set the mode of spf computation
incremental	If possible, recompute only parts of the SPT

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

sport

{ sport <sval> } | { no sport }

Syntax Description

no	Negate a command or set its defaults
sport	Configure ngoam Udp source port range
<i>sval</i>	Udp source port range, max span 1024, Example: 2000-3000,400,500

Command Mode

- /exec/configure/configngoamprofile

sport

{ sport <sva> | no sport }

Syntax Description

no	Negate a command or set its defaults
sport	Outer UDP source port
<i>sva</i>	Source port

Command Mode

- /exec/configure/configngoamconnectcheck

srom backplane

```
srom { backplane [ brief ] }
```

Syntax Description

srom	set SPROM contents should be done very carefully
backplane	set backplane module srom contents
brief	(Optional) set minimal/essential backplane module srom contents

Command Mode

- /exec

srom recover backplane

srom recover backplane <i0>

Syntax Description

srom	set SPROM contents should be done very carefully
recover	SPROM recovery
backplane	set backplane module srom contents
<i>i0</i>	please enter instance of backplane srom

Command Mode

- /exec

src-intf

```
{ src-intf <src_if> }
```

Syntax Description

src-intf	Interface on which the host with src ip of the payload is connected
<i>src_if</i>	Interface

Command Mode

- /exec/configure/configngoamccpayload

ssh

```
{ ssh <s0> [ [ vrf { <vrf-name> | <vrf-known-name> } ] [ source-ip <s1> ] ] | [ source-interface <intf> ] ] }
| { ssh <s0> [ [ source-ip <s1> ] [ vrf { <vrf-name> | <vrf-known-name> } ] ] | [ source-interface <intf> ] ]
}
```

Syntax Description

ssh	SSH to another system
vrf	(Optional) Display per-VRF information
source-ip	(Optional) ip address to bind
source-interface	(Optional) Select source interface
<i>s0</i>	Enter hostname or user@hostname
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>s1</i>	(Optional) Enter source ip address to bind
<i>intf</i>	(Optional)

Command Mode

- /exec

ssh6

```
{ ssh6 <s0> [ [ vrf { <vrf-name> | <vrf-known-name> } ] [ source-ip <s2> ] [ interface <s1> ] ] | [
source-interface <intf> ] ] } | { ssh6 <s0> [ [ source-ip <s2> ] [ vrf { <vrf-name> | <vrf-known-name> } ] [
interface <s1> ] ] | [ source-interface <intf> ] ] }
```

Syntax Description

ssh6	SSH to another system using IPv6 addressing
vrf	(Optional) vrf to use
source-ip	(Optional) ip address to bind
source-interface	(Optional) Select source interface
interface	(Optional) interface to bind
s0	Enter hostname or user@hostname
vrf-name	(Optional) VRF name
vrf-known-name	(Optional) Known VRF name
s2	(Optional) Enter source ip address to bind
s1	(Optional) Enter interface to bind
intf	(Optional)

Command Mode

- /exec

ssh cipher-mode weak

```
{ { ssh cipher-mode weak } | { no ssh cipher-mode [ weak ] } }
```

Syntax Description

no	Negate a command or set its defaults
ssh	SSH to another system
cipher-mode	Set Cipher-mode for ssh
weak	Enable Weak Ciphers

Command Mode

- /exec/configure/

ssh key dsa

```
{ ssh key { dsa [ force ] | rsa [ { <i0> | <oldrange> } [ force ] ] } | no ssh key [ { dsa [ force ] | rsa [ { <i0> | <oldrange> } [ force ] ] } ] }
```

Syntax Description

no	Negate a command or set its defaults
ssh	SSH to another system
key	Generate SSH Key
dsa	Generate DSA keys
force	(Optional) Force the generation of keys even if previous ones are present
rsa	Generate RSA keys
<i>i0</i>	(Optional) Enter number of bits (in multiples of 8)
<i>oldrange</i>	(Optional) Enter number of bits
force	(Optional) Force the generation of keys even if previous ones are present
force	(Optional) Force the generation of keys even if previous ones are present

Command Mode

- /exec/configure

ssh login-attempts

```
{ { ssh login-attempts <d0> } | { no ssh login-attempts [ <d0> ] } }
```

Syntax Description

no	Negate a command or set its defaults
ssh	SSH to another system
login-attempts	Set maximum login attempts from ssh
<i>d0</i>	Specify max-attempt number

Command Mode

- /exec/configure/

ssh server enable

[no] ssh server enable

Syntax Description

no	(Optional) Negate a command or set its defaults
ssh	Configure SSH parameters
server	Configure SSH Server parameters
enable	Enable SSH server

Command Mode

- /exec/configure

standby

[no] standby [ip <ip-addr-first> | IPv6 <ip-addrv6-first>]

Syntax Description

no	(Optional) Negate a command or set its defaults
standby	Standby node
ip	(Optional) ip address for standby node
<i>ip-addr-first</i>	(Optional) ITD node IPv4 address
IPv6	(Optional) IPv6 address

Command Mode

- /exec/configure/itd-dg-node

standby ip

[no] standby { ip <ip-addr-first> | IPv6 <ip-addrv6-first> }

Syntax Description

no	(Optional) Negate a command or set its defaults
standby	Configure standby node for a primary node
ip	Standby node IPv4 address
<i>ip-addr-first</i>	IP4 prefix in format i.i.i.i
IPv6	Standby node IPv6 address

Command Mode

- /exec/configure/plb-dg-node

start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elamns/se13

start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elamns/sel4

start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elamns/se15

start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elanms/sel6

start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elanms/se17

start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elamns/outsel0

start

start

Syntax Description

start	Start Trigger
-------	---------------

Command Mode

- /exec/elamns/outse15

state enabled

[no] state enabled

Syntax Description

no	(Optional) Negate a command or set its defaults
state	Port-profile state
enabled	Enable/ disable the port-profile

Command Mode

- /exec/configure/port-profile

stateful-ha

[no] stateful-ha [test-recovery]

Syntax Description

no	(Optional) Negate a command or set its defaults
stateful-ha	Enable stateful IS-IS HA
test-recovery	(Optional) Test stateful HA recovery

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

stateful-ha

[no] stateful-ha [pss-partial-lsp]

Syntax Description

stateful-ha	Configure RSVP stateful HA
pss-partial-lsp	(Optional) Enable PSS of partial lsps

Command Mode

- /exec/configure/ip-rsvp

statistics

[no] statistics

Syntax Description

no	(Optional) Negate a command or set its defaults
----	---

Command Mode

- /exec/configure/ipacl /exec/configure/vacl

statistics

[no] statistics

Syntax Description

no	(Optional) Negate a command or set its defaults
----	---

Command Mode

- /exec/configure/ipv6acl

statistics

[no] statistics

Syntax Description

no	(Optional) Negate a command or set its defaults
----	---

Command Mode

- /exec/configure/macac1

statistics collection-interval

statistics collection-interval <interval-val> | no statistics collection-interval

Syntax Description

no	Negate a command or set its defaults
statistics	Statistics related commands
collection-interval	How often to retrieve statistics
<i>interval-val</i>	Collection interval in seconds (0 = do not collect)

Command Mode

- /exec/configure/openflow/switch

statistics per-entry

[no] statistics per-entry

Syntax Description

no	(Optional) Negate a command or set its defaults
----	---

Command Mode

- /exec/configure/ipacl /exec/configure/vacl

statistics per-entry

[no] statistics per-entry

Syntax Description

no	(Optional) Negate a command or set its defaults
----	---

Command Mode

- /exec/configure/ipv6acl

statistics per-entry

[no] statistics per-entry

Syntax Description

no	(Optional) Negate a command or set its defaults
----	---

Command Mode

- /exec/configure/macac1

stats-reporting-period

stats-reporting-period <time-in-sec> | no stats-reporting-period

Syntax Description

no	Negate a command or set its defaults
stats-reporting-period	Interval after which statistics are sent to the BMP server
<i>time-in-sec</i>	Delay value

Command Mode

- /exec/configure/router-bgp/router-bgp-bmp-server

status

status

Syntax Description

status	Status of Trigger
--------	-------------------

Command Mode

- /exec/eramns/se13

status

status

Syntax Description

status	Status of Trigger
--------	-------------------

Command Mode

- /exec/elamns/sel4

status

status

Syntax Description

status	Status of Trigger
--------	-------------------

Command Mode

- /exec/eramns/se15

status

status

Syntax Description

status	Status of Trigger
--------	-------------------

Command Mode

- /exec/elamns/sel6

status

status

Syntax Description

status	Status of Trigger
--------	-------------------

Command Mode

- /exec/elanms/se17

status

status

Syntax Description

status	Status of Trigger
--------	-------------------

Command Mode

- /exec/elamns/outse0

status

status

Syntax Description

status	Status of Trigger
--------	-------------------

Command Mode

- /exec/elamns/outse15

stopbits 1

[no] stopbits { 1 | 2 }

Syntax Description

no	(Optional) Negate a command or set its defaults
stopbits	Set async line stopbits
1	One stop bit
2	Two stop bits

Command Mode

- /exec/configure/com1

stopbits 1

[no] stopbits { 1 }

Syntax Description

no	(Optional) Negate a command or set its defaults
stopbits	Set async line stopbits
1	One stop bit

Command Mode

- /exec/configure/console

storm-control-cpu

storm-control-cpu { { arp rate } <pps> } | no storm-control-cpu arp

Syntax Description

no	Negate a command or set its defaults
storm-control-cpu	Configure Interface storm control cpu
arp	arp storm control
rate	Set allowed arp traffic rate on this interface
<i>pps</i>	value in packets per sec

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

storm-control

```
storm-control { { { broadcast blevel | multicast mlevel | unicast ulevel | port plevel } { pps <pps_val> | <level> } } } | action { shutdown | trap } } | no storm-control { { { broadcast blevel | multicast mlevel | unicast ulevel | port plevel } { pps [ <pps_val> ] | [ <level> ] } } } | action [ shutdown | trap ] }
```

Syntax Description

no	Negate a command or set its defaults
storm-control	Configure Interface storm control
broadcast	Broadcast address storm control
multicast	Multicast address storm control
unicast	Unicast address storm control
port	Port level storm control
blevel	Set allowed broadcast traffic level on this interface
mlevel	Set allowed multicast traffic level on this interface
ulevel	Set allowed unicast traffic level on this interface
plevel	Set allowed Port traffic level on this interface
<i>level</i>	Enter the storm suppression level
pps	Storm-control level is specified in packets per second
<i>pps_val</i>	Enter the storm suppression level in pps
action	Action on storm control
shutdown	Shutdown (Err-Disable) port
trap	Generate SNMP trap

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-l2-non-member /exec/configure/if-eth-port-channel-switch

streetaddress

{ streetaddress <line> | no streetaddress }

Syntax Description

no	Negate a command or set its defaults
streetaddress	Configure replacement part shipping address.
<i>line</i>	Provide street address (white spaces are fine)

Command Mode

- /exec/configure/callhome

stub

```
{ { [ eigrp ] stub [ { [ direct | connected | static | summary ] [ redistributed ] } + [ leak-map <leak-map> ] | {
receive-only } ] } } | { no [ eigrp ] stub [ { [ direct | connected | static | summary ] [ redistributed ] } + [ leak-map
<leak-map> ] | { receive-only } ] } }
```

Syntax Description

no	Negate a command or set its defaults
eigrp	(Optional) EIGRP router configuration commands
stub	Set IP-EIGRP as stubbed router
direct	(Optional) Do advertise connected routes
connected	(Optional) Do advertise connected routes
static	(Optional) Do advertise static routes
summary	(Optional) Do advertise summary routes
redistributed	(Optional) Do advertise redistributed routes
leak-map	(Optional) Allow dynamic prefixes based on the leak-map
<i>leak-map</i>	(Optional) leak-map name
receive-only	(Optional) Set IP-EIGRP as receive only neighbor

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

sub-switch vlan

sub-switch <subswitch-id> vlan <vlan-id> | no sub-switch <subswitch-id>

Syntax Description

no	Negate a command or set its defaults
sub-switch	Logical sub-switch id
<i>subswitch-id</i>	Logical subswitch-id(2 to 10)
vlan	VLAN-id or VLAN-range
<i>vlan-id</i>	VLAN-id or VLAN-range

Command Mode

- /exec/configure/openflow/switch

subscription

[no] subscription <sub-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
subscription	Create a Subscription
<i>sub-id</i>	Identifier

Command Mode

- /exec/configure/telemetry

summary-address

[no] summary-address { <ip-dest> <ip-mask> | <ip-prefix> } [tag <tagval> | not-advertise]

Syntax Description

no	(Optional) Negate a command or set its defaults
summary-address	Configure route summarization for redistribution
<i>ip-dest</i>	IP prefix format: i.i.i.i
<i>ip-mask</i>	IP network mask format: m.m.m.m
<i>ip-prefix</i>	IP prefix format: x.x.x.x/ml
tag	(Optional) 32-bit tag value
<i>tagval</i>	(Optional) 32-bit tag value
not-advertise	(Optional) Suppress advertising the specified summary

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

summary-address

summary-address { <ip-addr> <ip-mask> | <ip-prefix> } <level> | no summary-address { <ip-addr> <ip-mask> | <ip-prefix> } [<level>]

Syntax Description

no	Negate a command or set its defaults
summary-address	Configure IP address summaries
<i>ip-addr</i>	IP summary address
<i>ip-mask</i>	IP summary mask
<i>ip-prefix</i>	IP summary prefix
<i>level</i>	Level to summarize into

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv4

summary-address

summary-address <ipv6-prefix> <level> | no summary-address <ipv6-prefix> [<level>]

Syntax Description

no	Negate a command or set its defaults
summary-address	Configure IP address summaries
<i>level</i>	Level to summarize into

Command Mode

- /exec/configure/router-isis/router-isis-af-ipv6

summary-address

[no] summary-address <ipv6-prefix> [tag <tagval> | not-advertise]

Syntax Description

no	(Optional) Negate a command or set its defaults
summary-address	Configure route summarization for redistribution
tag	(Optional) 32-bit tag value
<i>tagval</i>	(Optional) 32-bit tag value
not-advertise	(Optional) Suppress advertising the specified summary

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

suppress-arp

[no] suppress-arp

Syntax Description

no	(Optional) Negate a command or set its defaults
suppress-arp	Enable ARP suppression

Command Mode

- /exec/configure/if-nve/vni

suppress-fib-pending

[no] suppress-fib-pending

Syntax Description

no	(Optional) Negate a command or set its defaults
suppress-fib-pending	Advertise only routes that are programmed in hardware to peers

Command Mode

- /exec/configure/router-bgp

suppress-fib-pending

[no] suppress-fib-pending

Syntax Description

no	(Optional) Negate a command or set its defaults
suppress-fib-pending	Advertise only routes that are programmed in hardware to peers

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

suppress-inactive

[no] suppress-inactive

Syntax Description

no	(Optional) Negate a command or set its defaults
suppress-inactive	Advertise only active routes to peers

Command Mode

- /exec/configure/router-bgp/router-bgp-af

suppress-inactive

[no | default] suppress-inactive

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
suppress-inactive	Advertise only active routes to peer

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
/exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

suppress-signaling-protocol ldp

[no | default] suppress-signaling-protocol ldp

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
suppress-signaling-protocol	Suppress VPLS BGP AD protocol
ldp	LDP signaling

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-l2vpn-vpls

suppress mac-route

[no] suppress mac-route

Syntax Description

no	(Optional) Negate a command or set its defaults
suppress	Suppress MAC only route advertisement
mac-route	MAC route

Command Mode

- /exec/configure/if-nve

switch-id

switch-id <asid> | no switch-id

Syntax Description

no	Negate a command or set its defaults
switch-id	Configure Switch ID
<i>asid</i>	Anycast Switch ID

Command Mode

- /exec/configure/anycast

switch-priority

{ switch-priority <i0> | no switch-priority }

Syntax Description

no	Negate a command or set its defaults
switch-priority	Priority of the switch(0-highest 7-lowest)
<i>i0</i>	Priority of the switch(0-highest 7-lowest)

Command Mode

- /exec/configure/callhome

switch-profile

switch-profile <s0>

Syntax Description

switch-profile	Enter switch-profile configuration mode
<i>s0</i>	Enter the name of the switch-profile

Command Mode

- /exec/configure

switch-profile

[no] switch-profile <s0> { profile-only { local | all } | local-config | all-config }

Syntax Description

no	Negate a command or set its defaults
switch-profile	Enter switch-profile configuration mode
s0	Enter the name of the switch-profile
profile-only	Deletion of profile only and no other configuration
local	Deletion of profile only and no other configurations in local switch
all	Deletion of profile only and no other configurations from all the peers
local-config	Deletion of profile and local configuration
all-config	Deletion of profile, local and peer configurations

Command Mode

- /exec/configure

switch-scope controller

{ switch-scope controller <controller-id> | no switch-scope controller }

Syntax Description

no	Negate a command or set its defaults
switch-scope	switch-scope
controller	Controller command
<i>controller-id</i>	Controller id

Command Mode

- /exec

switch pipeline

switch <switch-id> pipeline <pipeline-id> | no switch <switch-id>

Syntax Description

no	Negate a command or set its defaults
switch	Switch
<i>switch-id</i>	Logical switch-id
pipeline	Select forwarding profile, use 'show openflow hardware capabilities' for choices
<i>pipeline-id</i>	Pipeline id

Command Mode

- /exec/configure/openflow

switchback

switchback

Syntax Description

switchback	switchback to default vdc
------------	---------------------------

Command Mode

- /exec

switching-mode fabric-speed 40g

[no] switching-mode fabric-speed 40g

Syntax Description

no	(Optional) Negate a command or set its defaults
switching-mode	Configure the operating switching-mode of asics
fabric-speed	fabric speed settings
40g	fabric speed at 40g instead of 42g

Command Mode

- /exec/configure

switching-mode fast-to-slow-speed-cut-through

[no] switching-mode fast-to-slow-speed-cut-through

Syntax Description

no	(Optional) Negate a command or set its defaults
switching-mode	Configure the operating switching-mode of asics
fast-to-slow-speed-cut-through	Operate in fast-to-slow speed cut-through mode

Command Mode

- /exec/configure

switching-mode store-forward

[no] switching-mode store-forward

Syntax Description

no	(Optional) Negate a command or set its defaults
switching-mode	Configure the operating switching-mode of asics
store-forward	Operate in store and forward mode

Command Mode

- /exec/configure

switchport

switchport

Syntax Description

switchport	Configure switchport parameters
------------	---------------------------------

Command Mode

- /exec/configure/if-eth-non-member /exec/configure/if-ethernet-all /exec/configure/if-port-channel /exec/configure/if-ethernet-p2p

switchport

[no] switchport

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-eth-non-member /exec/configure/if-ethernet /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-port-channel /exec/configure/if-ethernet-p2p

switchport autostate exclude

```
switchport autostate exclude [ vlan { <exclude-vlans> | add <add-vlans> | except <except-vlans> | remove
<remove-vlans> | all | none } ] | no switchport autostate exclude [ dummy ] [ vlan { <exclude-vlans> | add
<add-vlans> } ]
```

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
autostate	Include or exclude this port from vlan link up calculation
exclude	Exclude this port from vlan link up calculation
vlan	(Optional) VLAN Id
<i>exclude-vlans</i>	(Optional) VLAN IDs of the VLANs to auto-state exclude on this interface
add	(Optional) add VLANs to except list
<i>add-vlans</i>	(Optional) VLAN IDs of the VLANs to auto-state exclude on this interface
except	(Optional) List of VLANs to excepted from auto-state exclude
<i>except-vlans</i>	(Optional) VLAN IDs of the VLANs to auto-state exclude on this interface
remove	(Optional) remove VLANs from except list
<i>remove-vlans</i>	(Optional) VLAN IDs of the VLANs to auto-state exclude on this interface
all	(Optional) Exclude all VLANs
none	(Optional) Exclude no VLANs
dummy	(Optional) Hidden Keyword

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-gig-ether
/exec/configure/if-port-channel-range /exec/configure/if-eth-port-channel-switch
/exec/configure/if-remote-ethernet-switch

switchport block unicast

switchport block { unicast | multicast } | no switchport block { unicast | multicast }

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
block	Block specified outbound traffic for all VLANs
unicast	Block unknown unicast traffic
multicast	Block flood multicast traffic

Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all
/exec/configure/if-eth-port-channel-switch

switchport dot1q ethertype

switchport dot1q ethertype { 0x8100 | 0x88A8 | 0x9100 | <any> } | no switchport dot1q ethertype [<any>]

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
dot1q	Configure dot1q EtherType value
ethertype	Configure dot1q EtherType value
0x8100	Default EtherType for 802.1q frames
0x88A8	EtherType for 802.1ad double tagged frames
0x9100	EtherType for QinQ frames
<i>any</i>	Any EtherType

Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all

switchport dot1q ethertype

switchport dot1q ethertype { 0x8100 | 0x88A8 | 0x9100 | <any> } | no switchport dot1q ethertype [<any>]

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
dot1q	Configure dot1q EtherType value
ethertype	Configure dot1q EtherType value
0x8100	Default EtherType for 802.1q frames
0x88A8	EtherType for 802.1ad double tagged frames
0x9100	EtherType for QinQ frames
<i>any</i>	Any EtherType

Command Mode

- /exec/configure/if-eth-port-channel-switch

switchport host

[no] switchport host

Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
host	Set port host

Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-switch
/exec/configure/if-ethernet-switch-m /exec/configure/if-ethernet-all

switchport isolated

[no] switchport isolated

Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
isolated	Disable loop-free detection.

Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all
/exec/configure/if-eth-port-channel-switch

switchport mac-learn disable

switchport mac-learn disable | no switchport mac-learn disable

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
mac-learn	Disable/enable mac learning on interface
disable	Disable mac learning on all VLANs on interface

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-non-member /exec/configure/if-port-channel

switchport mode

{ switchport mode { <port_mode> } | no switchport mode }

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
mode	Enter the port mode
<i>port_mode</i>	port mode

Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all
/exec/configure/if-eth-port-channel-switch

switchport mode

{ switchport mode { <port_mode> } | no switchport mode }

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
mode	Enter the port mode
<i>port_mode</i>	port mode

Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all
/exec/configure/if-eth-port-channel-switch

switchport mode fabricpath

[no] switchport mode fabricpath

Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
mode	Enter the port mode
fabricpath	port mode fabricpath

Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all
/exec/configure/if-eth-port-channel-switch

switchport mode monitor buffer-limit

switchport mode monitor buffer-limit { <value> [packets | bytes | kbytes | mbytes] } | no switchport mode monitor buffer-limit

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
mode	Enter the port mode
monitor	Configures an interface as span-destination
buffer-limit	Set buffer limit for span destination
<i>value</i>	Limit in terms of packets
packets	(Optional) Packets
bytes	(Optional) Bytes
kbytes	(Optional) Kilo bytes
mbytes	(Optional) Mega bytes

Command Mode

- /exec/configure/if-eth-l2-non-member /exec/configure/if-ethernet-all
/exec/configure/if-eth-port-channel-switch

switchport mode private-vlan

```
{ switchport mode private-vlan <port_mode> } | { no switchport mode private-vlan [ <port_mode> ] }
```

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
mode	Enter the port mode
private-vlan	Set the private VLAN configuration
<i>port_mode</i>	private vlan mode

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-eth-port-channel-switch /exec/configure/if-remote-ethernet-switch

switchport mode private-vlan trunk

```
{ switchport mode private-vlan trunk <trunk_mode> } | { no switchport mode private-vlan trunk [
<trunk_mode> ] }
```

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
mode	Enter the port mode
private-vlan	Set the private VLAN configuration
trunk	private-vlan trunk
<i>trunk_mode</i>	private vlan trunk mode

Command Mode

- /exec/configure/if-ethernet-switch /exec/configure/if-ethernet-all /exec/configure/if-eth-port-channel-switch /exec/configure/if-remote-ethernet-switch

switchport port-security

[no] switchport port-security

Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command

Command Mode

- /exec/configure/if-switching

switchport port-security aging time

[no] switchport port-security aging time <value>

Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command
aging	Port-security aging commands
time	Port-security aging time
<i>value</i>	Aging time in minutes. Enter a value between 1 and 1440

Command Mode

- /exec/configure/if-switching

switchport port-security aging type absolute

[no] switchport port-security aging type { absolute | inactivity }

Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command
aging	Port-security aging commands
type	Type of timers
absolute	Absolute Timer
inactivity	Inactivity Timer

Command Mode

- /exec/configure/if-switching

switchport port-security mac-address

[no] switchport port-security mac-address <mac-address> [vlan <vlanid>]

Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command
mac-address	MAC address
<i>mac-address</i>	48 bit mac address format HHHH.HHHH.HHHH
vlan	(Optional) Vlan on which the mac address should be secured
<i>vlanid</i>	(Optional) vlan id. Enter a value between 1 and 4094

Command Mode

- /exec/configure/if-switching

switchport port-security mac-address sticky

[no] switchport port-security mac-address sticky

Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command
mac-address	MAC address
sticky	Sticky MAC address

Command Mode

- /exec/configure/if-switching

switchport port-security maximum

[no] switchport port-security maximum <value> [vlan <vlanid>]

Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command
maximum	Max secure addresses
<i>value</i>	Maximum addresses 1 to 1025
vlan	(Optional) Vlan on which the mac address should be secured
<i>vlanid</i>	(Optional) vlan id. Enter a value between 1 and 4094

Command Mode

- /exec/configure/if-switching

switchport port-security violation

[no] switchport port-security violation { protect | restrict | shutdown }

Syntax Description

no	(Optional) Negate a command or set its defaults
switchport	Configure switchport parameters
port-security	Port security related command
violation	Security violation mode
protect	security violation protect mode
restrict	security violation restrict mode
shutdown	security violation shutdown mode

Command Mode

- /exec/configure/if-switching

switchport priority extend cos

{ switchport priority extend { cos <cos-value> | trust } | no switchport priority extend }

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
priority	CoS Priority parameter
extend	Enter priority extend mode
cos	Switch will send CDP packet to instruct phone to mark data traffic with CoS value
<i>cos-value</i>	Trust CoS value to be sent to the IP Phone
trust	Switch will send CDP packet to instruct phone to trust tagged data traffic

Command Mode

- /exec/configure/if-eth-12-non-member /exec/configure/if-ethernet-all

switchport private-vlan association trunk

```
{ switchport private-vlan association trunk <primary-vlan> <secondary-vlan> } | { no switchport private-vlan association trunk [ <primary-vlan> [ <secondary-vlan> ] ] }
```

Syntax Description

switchport	Configure switchport parameters
private-vlan	Set the private VLAN configuration
association	private vlan trunk association
trunk	private-vlan trunk secondary
no	Negate a command or set its defaults
<i>primary-vlan</i>	Primary VLAN ID
<i>secondary-vlan</i>	Secondary VLAN ID

Command Mode

- /exec/configure/if-switching /exec/configure/if-eth-port-channel-switch

switchport private-vlan host-association

{ switchport private-vlan host-association <primary-vlan> <secondary-vlan> } | { no switchport private-vlan host-association }

Syntax Description

switchport	Configure switchport parameters
private-vlan	Set the private VLAN configuration
host-association	Set the private VLAN host association
no	Negate a command or set its defaults
<i>primary-vlan</i>	Primary VLAN ID
<i>secondary-vlan</i>	Secondary VLAN ID

Command Mode

- /exec/configure/if-switching /exec/configure/if-eth-port-channel-switch

switchport private-vlan mapping

```
{ switchport private-vlan mapping <primary-vlan> [ { add | remove } ] <secondary_vlans> } | { no switchport private-vlan mapping [ <primary-vlan> <secondary_vlans> ] }
```

Syntax Description

switchport	Configure switchport parameters
private-vlan	Set the private VLAN configuration
mapping	Set the private VLAN access/trunk promiscuous mapping
add	(Optional) Add a VLAN to private VLAN list
remove	(Optional) Remove a VLAN from private VLAN list
no	Negate a command or set its defaults
<i>primary-vlan</i>	Primary private VLAN
<i>secondary_vlans</i>	Secondary VLAN IDs

Command Mode

- /exec/configure/if-switching /exec/configure/if-eth-port-channel-switch

switchport private-vlan mapping trunk

```
{ switchport private-vlan mapping trunk <primary-vlan> [ { add | remove } ] <secondary_vlans> } | { no
switchport private-vlan mapping trunk [ <primary-vlan> [ <secondary_vlans> ] ] }
```

Syntax Description

switchport	Configure switchport parameters
private-vlan	Set the private VLAN configuration
mapping	Set the private VLAN access/trunk promiscuous mapping
add	(Optional) Add a VLAN to private VLAN list
remove	(Optional) Remove a VLAN from private VLAN list
no	Negate a command or set its defaults
trunk	private-vlan trunk promiscuous
<i>primary-vlan</i>	Primary private VLAN
<i>secondary_vlans</i>	Secondary VLAN IDs

Command Mode

- /exec/configure/if-switching /exec/configure/if-eth-port-channel-switch

switchport private-vlan trunk allowed vlan

switchport private-vlan trunk allowed vlan { <allowed-vlans> | add <add-vlans> | except <except-vlans> | remove <remove-vlans> | all | none } | no switchport private-vlan trunk allowed vlan <no-allowed-vlans>

Syntax Description

switchport	Configure switchport parameters
private-vlan	Set the private VLAN configuration
trunk	Set the private vlan trunking configuration
allowed	Set allowed VLANs when interface is in private-vlan trunking mode
vlan	VLAN status
<i>allowed-vlans</i>	VLAN IDs of the allowed VLANs when interface is in private-vlan trunking mode
add	add VLANs to the current list
<i>add-vlans</i>	VLAN IDs of the allowed VLANs when interface is in private-vlan trunking mode
except	all VLANs except the following
<i>except-vlans</i>	VLAN IDs of disallowed VLANs when this port is in trunking mode
remove	remove VLANs from the current list
<i>remove-vlans</i>	VLAN IDs of disallowed VLANs when this port is in trunking mode
all	all VLANs
none	no VLANs
no	Negate a command or set its defaults
<i>no-allowed-vlans</i>	VLAN IDs of disallowed VLANs when this port is in trunking mode

Command Mode

- /exec/configure/if-switching /exec/configure/if-eth-port-channel-switch

switchport private-vlan trunk native vlan

{ switchport private-vlan trunk native vlan <native-vlan> } | { no switchport private-vlan trunk native vlan }

Syntax Description

switchport	Configure switchport parameters
private-vlan	Set the private VLAN configuration
no	Negate a command or set its defaults
trunk	Set the private vlan trunking configuration
native	Set the private vlan trunking native configuration
vlan	VLAN status
<i>native-vlan</i>	native vlan id

Command Mode

- /exec/configure/if-switching /exec/configure/if-eth-port-channel-switch

switchport virtual-ethernet-bridge

switchport virtual-ethernet-bridge | no switchport virtual-ethernet-bridge

Syntax Description

no	Negate a command or set its defaults
switchport	Configure switchport parameters
virtual-ethernet-bridge	Enable hair-pin forwarding

Command Mode

- /exec/configure/if-eth-12-non-member /exec/configure/if-ethernet-all
/exec/configure/if-eth-port-channel-switch

switchto vdc

```
switchto vdc <e-vdc2> [ force ] [ bypass ] [ __readonly__ <vdc_id> <invalid_vdc_id> <noauth_vdc_id>
<no_first> ]
```

Syntax Description

switchto	Goto specific Virtual Device Context <vdc-name> <vdc-id>
vdc	Manage Virtual Device Context
<i>e-vdc2</i>	Enter Virtual Device Context <vdc-id>
<i>__readonly__</i>	(Optional) Read Only
force	(Optional) force
<i>vdc_id</i>	(Optional) Enter Virtual Device Context <vdc-id>
<i>invalid_vdc_id</i>	(Optional) Enter Virtual Device Context <vdc-id>
<i>noauth_vdc_id</i>	(Optional) Enter Virtual Device Context <vdc-id>
<i>no_first</i>	(Optional) Enter Virtual Device Context <vdc-id>
bypass	(Optional) Enter Virtual Device Context <vdc-id>

Command Mode

- /exec/

sync-peers destination

sync-peers destination <dst-ip> [source <src-ip> | vrf <vrf-name>] + | no sync-peers destination [<dst-ip> [source <src-ip>]]

Syntax Description

no	Negate a command or set its defaults
sync-peers	Specify peers to whom configuration needs to be synced
destination	Specify destination ip address of peer switch
<i>dst-ip</i>	IPv4 address (A.B.C.D) of destination
source	(Optional) Source interface for sending out configs
<i>src-ip</i>	(Optional) IPv4 address (A.B.C.D) of source
vrf	(Optional) vrf to be used default/management
<i>vrf-name</i>	(Optional) vrf to be used

Command Mode

- /exec/configure

sync-snmp-password

sync-snmp-password <s0>

Syntax Description

sync-snmp-password	sync snmp password
s0	password

Command Mode

- /exec

sync-snmp-password

sync-snmp-password <s0> <s1> <s2>

Syntax Description

sync-snmp-password	sync snmp password
<i>s0</i>	password
<i>s1</i>	user
<i>s2</i>	snmp client host

Command Mode

- /exec

sync-snmp-password

[no] sync-snmp-password <*s0*>

Syntax Description

no	(Optional) Negate a command or set its defaults
sync-snmp-password	sync snmp password
<i>s0</i>	password

Command Mode

- /exec/configure

syslog

```
syslog { msg <s0> | priority { <i0> msg1 <s1> | alerts msg2 <s2> | critical msg3 <s3> | debugging msg4 <s4>
| emergencies msg5 <s5> | errors msg6 <s6> | informational msg7 <s7> | notifications msg8 <s8> | warnings
msg9 <s9> } }
```

Syntax Description

syslog	Execute a logging command
msg	Log EEM action message
<i>s0</i>	Enter the msg (max 300 chars)
priority	Priority of the log message
<i>i0</i>	Enter priority of the log message
msg1	Log EEM action message
<i>s1</i>	Enter the msg (max 300 chars)
alerts	Alert log message
msg2	Log EEM action message
<i>s2</i>	Enter the msg (max 300 chars)
critical	Critical log message
msg3	Log EEM action message
<i>s3</i>	Enter the msg (max 300 chars)
debugging	Debugging log message
msg4	Log EEM action message
<i>s4</i>	Enter the msg (max 300 chars)
emergencies	Emergency log message
msg5	Log EEM action message
<i>s5</i>	Enter the msg (max 300 chars)
errors	Error log message
msg6	Log EEM action message
<i>s6</i>	Enter the msg (max 300 chars)
informational	Informational log message
msg7	Log EEM action message

<i>s7</i>	Enter the msg (max 300 chars)
notifications	Notifications log message
msg8	Log EEM action message
<i>s8</i>	Enter the msg (max 300 chars)
warnings	Warning log message
msg9	Log EEM action message
<i>s9</i>	Enter the msg (max 300 chars)

Command Mode

- /exec

system-mac

[no] system-mac <mac-addr>

Syntax Description

no	(Optional) Negate a command or set its defaults
system-mac	Mac Address
<i>mac-addr</i>	specify system mac address

Command Mode

- /exec/configure/if-eth-port-channel/ethernet-segment

system-mac

system-mac <sysmac> | no system-mac

Syntax Description

no	Negate a command or set its defaults
system-mac	Configure system mac address
<i>sysmac</i>	specify system mac address

Command Mode

- /exec/configure/vpc-domain

system-priority

system-priority <syspri> | no system-priority <syspri>

Syntax Description

no	Negate a command or set its defaults
system-priority	Configure system priority
<i>syspri</i>	specify system priority

Command Mode

- /exec/configure/vpc-domain

system

```
[no] system { { routing { hierarchical def-max-mode l3 64b-alpm | non-hierarchical [ max-mode l3-nh [
64b-alpm-nh ] ] | max-mode host | max-mode-tor { l2 | l3 | l2-l3 } | template-overlay-host-scale |
template-lpm-heavy | template-lpm-scale-v6-64 | template-dual-stack-host-scale | template-dynamic-trie-scale
| template-multicast-heavy | template-vxlan-scale | template-mpls-heavy | template-internet-peering |
template-multicast-nbm } } | { non-hierarchical-routing [ max-l3-mode ] } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management Commands
routing	Layer-3 routing
hierarchical	Host routing on LC and LPM routing in FM
non-hierarchical	Disable mode of host routing on LC and LPM routing in Fabric modules
non-hierarchical-routing	Disable mode of host routing on LC and LPM routing in Fabric modules
def-max-mode	Maximum scale to be enabled
max-mode	(Optional) Maximum scale to be enabled
max-mode-tor	Maximum scale to be enabled
l2	Max Layer-2 records and fewer Layer-3 host routes
l3	Layer-3 longest-prefix-match (LPM) routes
l2-l3	Balance of both Layer-2 records and Layer-3 host routes
l3-nh	(Optional) Layer-3 longest-prefix-match (LPM) routes
64b-alpm	IPv6 routes with masks /64 or shorter
64b-alpm-nh	(Optional) IPv6 routes with masks /64 or shorter
max-l3-mode	(Optional) Enable ALPM mode (Mode-4 in T2)
host	host routes
template-internet-peering	Internet Peering
template-overlay-host-scale	Overlay Host Scale
template-lpm-heavy	LPM Heavy
template-lpm-scale-v6-64	LPM Scale V6 64
template-dual-stack-host-scale	Dual Stack Host Scale
template-dynamic-trie-scale	Dynamic TRIE Scale

template-multicast-heavy	Multicast Heavy Scale
template-multicast-nbm	Multicast NBM Scale
template-mpls-heavy	MPLS Heavy Scale
template-vxlan-scale	Vxlan Scale

Command Mode

- /exec/configure

system auto-collect tech-support

system [no] auto-collect tech-support [timeout <time>]

Syntax Description

system	System management commands
no	(Optional) Negate a command or set its defaults
auto-collect	Auto collection of information
tech-support	Collect tech-support in case of service causing supervisor reset
timeout	(Optional) Collect tech-support timeout
<i>time</i>	(Optional) Timeout in seconds

Command Mode

- /exec

system cores

```
{ system cores { { <uri0> } | { <uri1> vrf <vrf-known-name> } } | no system cores [ { { <uri0> } | { <uri1> vrf <vrf-known-name> } } ] }
```

Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
cores	Copy cores to destination
<i>uri0</i>	Select destination filesystem
<i>uri1</i>	Select destination filesystem
vrf	Enter the vrf name
<i>vrf-known-name</i>	VRF name

Command Mode

- /exec/configure

system cores retain

[no] system cores retain

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
cores	Copy cores to destination
retain	keep the cores

Command Mode

- /exec/configure

system default interface

```
{ system default interface { congestion { timeout <i0> mode { core | edge } | mode { core | edge } } | pause
{ timeout <i1> mode1 { core | edge } | mode1 { core | edge } } } | no system default interface { congestion {
timeout <i0> mode { core | edge } | mode { core | edge } } | pause { timeout <i1> mode1 { core | edge } |
mode1 { core | edge } } } }
```

Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
default	Configure system default values
interface	Configure system default interface values
congestion	Configure system timeout values for congestion drop
pause	Configure system timeout values for pause frame
timeout	Configure system timeout values
<i>i0</i>	Configure number of milliseconds
<i>i1</i>	Configure number of milliseconds
mode	Configure mode
mode1	Configure mode
core	Enter the port type
edge	Enter the port type

Command Mode

- /exec/configure

system default switchport

{ [no] system default switchport }

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
default	Configure system default values
switchport	Configure switchport

Command Mode

- /exec/configure

system default switchport fabricpath

{ system default switchport fabricpath | no system default switchport fabricpath }

Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
default	Configure system default values
switchport	Configure switchport
fabricpath	Configure default port mode as fabricpath

Command Mode

- /exec/configure

system default switchport shutdown

{ [no] system default switchport shutdown }

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
default	Configure system default values
switchport	Configure switchport
shutdown	Configure admin state

Command Mode

- /exec/configure

system dme enable

[no] system dme enable

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management Commands
dme	Manage 4G DME enable/disable
enable	enable

Command Mode

- /exec/configure

system dot1q-tunnel transit

[no] system dot1q-tunnel transit

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management Commands
dot1q-tunnel	Dot1Q tunnel
transit	Transit box for multi-tag Ethernet Frames

Command Mode

- /exec/configure

system fabric-mode full-rate

[no] system fabric-mode full-rate

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management Commands
fabric-mode	Configure the operating mode of the fabrics
full-rate	Operates fabrics in Full Rate Mode

Command Mode

- /exec/configure

system fast-reload stabilization-timer

system fast-reload stabilization-timer <time>

Syntax Description

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>time</i>	time in secs

Command Mode

- /exec/configure

system hap-reset

system hap-reset

Syntax Description

system	System management commands
hap-reset	enables resetting of local or remote sup on ha failures

Command Mode

- /exec

system hap-reset

system no hap-reset

Syntax Description

system	System management commands
no	Negate a command or set its defaults
hap-reset	enables resetting of local or remote sup on ha failures

Command Mode

- /exec

system health check bootflash

system health check bootflash [fix-errors]

Syntax Description

system	System management commands
health	system health exec commands
check	run consistency check on compact flash
bootflash	check internal bootflash
fix-errors	(Optional) fix bootflash errors

Command Mode

- /exec

system heartbeat

system heartbeat

Syntax Description

system	System management commands
heartbeat	enables heartbeat

Command Mode

- /exec

system heartbeat

system no heartbeat

Syntax Description

system	System management commands
no	Negate a command or set its defaults
heartbeat	enables heartbeat

Command Mode

- /exec

system high-multicast-priority

[no] system high-multicast-priority

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management Commands
high-multicast-priority	high priority to multicast

Command Mode

- /exec/configure

system inband queuing

```
[no] system inband queuing [ { [ round-robin ] [ bpdu weight <weight-val> ] [ q0 weight <weight-val> ] [ q1 weight <weight-val> ] [ q0 no-drop ] [ q1 no-drop ] [ pick_packets ] [ bpdu map <q-index> ] [ arp map <q-index> ] [ q0 map <q-index> ] [ q1 map <q-index> ] } ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System-related show commands
inband	System Inband configuration
queuing	System Inband Queueing Algorithm
round-robin	(Optional) Simple Round-Robin
bpdu	(Optional) bpdu queue
arp	(Optional) arp queue
q0	(Optional) q0 queue (cos 4,5,6,7)
q1	(Optional) q1 queue (cos 0,1,2,3)
weight	(Optional) weight associated with the queue
no-drop	(Optional) set no drop option on queue
<i>weight-val</i>	(Optional) weights
pick_packets	(Optional) enable packet rx
map	(Optional) map to queue
<i>q-index</i>	(Optional) queue index

Command Mode

- /exec/configure

system inband queuing

system inband queuing { clear-pm-counters | clear-klm-counters | clear-all-counters | enable-timestamp | disable-timestamp }

Syntax Description

system	System-related show commands
inband	System Inband configuration
queuing	System Inband Queueing Algorithm
clear-pm-counters	clear user space inband queue counters
clear-klm-counters	clear KLM VDC inband queue counters
clear-all-counters	clear all inband queue counters
enable-timestamp	enable timestamping in klm vdc
disable-timestamp	disable timestamping in klm vdc

Command Mode

- /exec

system interface shutdown

[no] system interface shutdown [exclude fex-fabric]

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
interface	Configure system interface config
shutdown	Configure interface shutdown
exclude	(Optional) exclude
fex-fabric	(Optional) fex-fabric

Command Mode

- /exec/configure

system internal aclmgr global lock session

system internal aclmgr global lock <acquire-or-release> session <session_id> [pss-only]

Syntax Description

system	System management commands
internal	Commands for internal use
aclmgr	Configure aclmgr internals
global	Global database lock
lock	Lock
<i>acquire-or-release</i>	
session	PPF Session id
<i>session_id</i>	PPF session id
pss-only	(Optional) Force the values to be set and written to PSS

Command Mode

- /exec

system internal aclmgr inject

system internal aclmgr inject <error-type> <err_id>

Syntax Description

system	System management commands
internal	Commands for internal use
aclmgr	Configure aclmgr internals
inject	Inject error to state machine in next available event
<i>error-type</i>	Error type
<i>err_id</i>	Syserr id

Command Mode

- /exec/configure

system internal aclmgr remove policies interface

system internal aclmgr remove policies interface <ifname>

Syntax Description

system	System management commands
internal	Commands for internal use
aclmgr	Configure aclmgr internals
remove	Remove access-lists
policies	Policies
interface	Interface whose policies need to be removed
<i>ifname</i>	Interface name

Command Mode

- /exec/configure

system internal aclmgr vcache

```
system internal aclmgr vcache { { <add_or_rem> vlans <vlans> | reset } interface <ifname> | rebuild }
```

Syntax Description

system	System management commands
internal	Commands for internal use
aclmgr	Configure aclmgr internals
<i>add_or_rem</i>	Add or Remove vlan members to vlans
vcache	Vlan cache ut command, donot use this in production systems
vlans	Vlans which need to be added/removed from the interface
<i>vlans</i>	List of VLANs
reset	Reset all vlans on the interface
rebuild	Rebuild the vlan cache completely by requesting information from vlan manager
interface	Interface(s) which need to be added/removed/reset to/from vlans
<i>ifname</i>	Interface name list

Command Mode

- /exec/configure

system internal clis event-history size

```
[no] system internal clis event-history { nvdb | client | errors | parser | ha | cli | objstr | objstr-errors } size {
<size_in_text> | <size_in_bytes> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
internal	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
size	Enter size
<i>size_in_text</i>	Buffer size
<i>size_in_bytes</i>	Enter an integer value for the event history buffer

Command Mode

- /exec/configure

system internal npacl event-history size

```
[no] system internal npacl event-history { acl | ppf | cli | internal } size { <size_in_text> | <size_in_Kbytes>
}
```

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System management commands
internal	Commands for internal use
npacl	Configure NPACL feature
event-history	event history
acl	acl policy history of npacl
ppf	ppf interaction history of npacl
cli	cli history of npacl
internal	internal of npacl
size	Configure the size of the event-hist buffer
<i>size_in_text</i>	Buffer size
<i>size_in_Kbytes</i>	Size of the file in kbytes

Command Mode

- /exec

system internal policy-resync module

system internal policy-resync module <module>

Syntax Description

system	System management commands
internal	Commands for internal use
policy-resync	resync PPF policy
module	resync Module
<i>module</i>	Module number to resync

Command Mode

- /exec

system internal snapshot service

system internal snapshot service <s0>

Syntax Description

system	System management commands
internal	Commands for internal usage
snapshot	Generate debug snapshots
service	Generate debug snapshot for service
s0	please enter service name

Command Mode

- /exec

system jumbomtu

{ system jumbomtu <mtu> | no system jumbomtu [<mtu>] }

Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
jumbomtu	Configure system jumbomtu
<i>mtu</i>	Enter jumbomtu

Command Mode

- /exec/configure

system kernel-trace

system kernel-trace [enable | disable]

Syntax Description

system	system management commands
kernel-trace	kernel tracing
enable	(Optional) enables kernel tracing
disable	(Optional) disables kernel tracing

Command Mode

- /exec

system kgdb

system kgdb

Syntax Description

system	System management commands
kgdb	enables kgdb

Command Mode

- /exec

system kgdb

system no kgdb

Syntax Description

system	System management commands
no	Negate a command or set its defaults
kgdb	enables kgdb

Command Mode

- /exec

system login block-for

[no] system login block-for

Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
login	Enable secure login checking
block-for	Set quiet-mode active time period

Command Mode

- /exec/configure

system login block-for attempts within

system login block-for <i1> attempts <i2> within <i3>

Syntax Description

system	System configuration commands
login	Enable secure login checking
block-for	Set quiet-mode active time period
<i>i1</i>	Time period in seconds
attempts	Set max number of fail attempts
<i>i2</i>	Fail attempts max value
within	Watch period for fail attempts
<i>i3</i>	Time period in seconds

Command Mode

- /exec/configure

system login quiet-mode

[no] system login quiet-mode

Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
login	Enable secure login checking
quiet-mode	Set quiet-mode options

Command Mode

- /exec/configure

system login quiet-mode access-class

system login quiet-mode access-class <access-list>

Syntax Description

system	System configuration commands
login	Enable secure login checking
quiet-mode	Set quiet-mode options
access-class	Set access class
<i>access-list</i>	Access-list name

Command Mode

- /exec/configure

system memory-thresholds minor severe critical

[no] system memory-thresholds minor <minor> severe <severe> critical <crit>

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
memory-thresholds	Set memory thresholds on the card
minor	enter minor threshold
<i>minor</i>	please enter minor memory threshold as % memory
severe	enter severe treshold
<i>severe</i>	please enter severe memory threshold as % memory
critical	enter critical treshold
<i>crit</i>	please enter critical memory threshold as % memory

Command Mode

- /exec/configure

system minlife

system minlife <i0>

Syntax Description

system	System management commands
minlife	Set system minlife (in seconds)
<i>i0</i>	Set minlife

Command Mode

- /exec

system mode maintenance

[no] system mode maintenance [dont-generate-profile] [non-interactive] | system mode maintenance [dont-generate-profile | shutdown] [non-interactive]

Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
mode	system mode commands
maintenance	system maintenance mode
dont-generate-profile	(Optional) do not generate the maintenance/normal-mode profile
shutdown	(Optional) issue shutdown instead of isolate (default)
non-interactive	(Optional) do operation non interactively in background

Command Mode

- /exec/configure

system mode maintenance always-use-custom-profile

[no] system mode maintenance always-use-custom-profile

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
mode	system mode commands
maintenance	system maintenance mode
always-use-custom-profile	always use custom profile when entering maintenance mode

Command Mode

- /exec/configure

system mode maintenance on-reload reset-reason

[no] system mode maintenance on-reload reset-reason <reason>

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
mode	system mode commands
maintenance	system maintenance mode
on-reload	on reload maintenance mode configuration
reset-reason	reset reason
<i>reason</i>	

Command Mode

- /exec/configure

system mode maintenance snapshot-delay

[no] system mode maintenance snapshot-delay <delay-value>

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
mode	system mode commands
maintenance	system maintenance mode
snapshot-delay	delay after which after_maintenance snapshot will be taken
<i>delay-value</i>	delay value in seconds

Command Mode

- /exec/configure

system mode maintenance timeout

[no] system mode maintenance timeout <timer-value>

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
mode	system mode commands
maintenance	system maintenance mode
timeout	restart maintenance mode timer with a new value
<i>timer-value</i>	timer value in minutes

Command Mode

- /exec/configure

system module failure-action shutdown

[no] system module failure-action shutdown

Syntax Description

no	(Optional) Negate a command or set its defaults
system	system Internal Information
module	module commands
failure-action	Configure module action on failure
shutdown	action on failure - shutdown

Command Mode

- /exec/configure

system mrouting performance-mode

[no] system mrouting performance-mode

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management Commands
mrouting	Layer-3 mrouting
performance-mode	Multicast Performance Mode

Command Mode

- /exec/configure

system nve drop-glean

system nve drop-glean | no system nve drop-glean

Syntax Description

no	Negate the command or set its defaults
system	System Management Commands
nve	VXLAN interface
drop-glean	Disable glean processing for VXLAN routes

Command Mode

- /exec/configure

system nve ecmp-reuse

system nve ecmp-reuse | no system nve ecmp-reuse

Syntax Description

no	Negate the command or set its defaults
system	System Management Commands
nve	VXLAN interface
ecmp-reuse	Enable ECMP reuse to scale

Command Mode

- /exec/configure

system nve infra-vlans

system nve infra-vlans <vlan-range> | no system nve infra-vlans <vlan-range>

Syntax Description

no	Negate the command or set its defaults
system	System Management Commands
nve	VXLAN interface
infra-vlans	Configure Vxlan SVI Uplinks(requires system reload)
<i>vlan-range</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 (The range of vlans configured must not exceed 512)

Command Mode

- /exec/configure

system nve infra-vlans force

system nve infra-vlans <vlan-range> force

Syntax Description

system	System Management Commands
nve	VXLAN interface
infra-vlans	Configure Vxlan SVI Uplinks(requires system reload)
<i>vlan-range</i>	VLAN ID 1-4094 or range(s): 1-5, 10 or 2-5,7-19 (The range of vlans configured must not exceed 512)
force	Force-set infra-vlans

Command Mode

- /exec/configure

system nve ingress-replication round-robin

[no] system nve ingress-replication round-robin

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management Commands
nve	VXLAN interface
ingress-replication	VXLAN Ingress replication
round-robin	Round-Robin hashing of underlay-paths for VXLAN ingress-replication peers

Command Mode

- /exec/configure

system nve ipmc global index-size

system nve ipmc global index-size { <size> | default } | no system nve ipmc global index-size [<size>]

Syntax Description

no	Negate the command or set its defaults
system	System Management Commands
nve	VXLAN interface
ipmc	Configure ipmc index size
global	Configure global ipmc size
index-size	Configure index size
<i>size</i>	ipmc allowed size
default	Default size is 3000

Command Mode

- /exec/configure

system nve mac-learn-disable

system nve mac-learn-disable | no system nve mac-learn-disable

Syntax Description

no	Negate the command or set its defaults
system	System Management Commands
nve	VXLAN interface
mac-learn-disable	Disable mac learning on VXLAN tunnels

Command Mode

- /exec/configure

system nve mac-nat-enable

system nve mac-nat-enable | no system nve mac-nat-enable

Syntax Description

no	Negate the command or set its defaults
system	System Management Commands
nve	VXLAN interface
mac-nat-enable	Enable mac NATing for VXLAN routes

Command Mode

- /exec/configure

system nve peer-vni-counter

system nve peer-vni-counter | no system nve peer-vni-counter

Syntax Description

no	Negate the command or set its defaults
system	System Management Commands
nve	VXLAN interface
peer-vni-counter	Enable per-peer-per-vni counters

Command Mode

- /exec/configure

system nve policy-install-all

system nve policy-install-all | no system nve policy-install-all

Syntax Description

no	Negate the command or set its defaults
system	System Management Commands
nve	VXLAN interface
policy-install-all	Install policies on all slices of forwarding ASIC

Command Mode

- /exec/configure

system offline

system offline

Syntax Description

system	System management commands
offline	Go offline

Command Mode

- /exec

system private-vlan fex trunk

[no] system private-vlan fex trunk

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System configuration commands
private-vlan	Configure Private VLANs
fex	Configure PVLANS on FEX Host Interface
trunk	Configure PVLANS on FEX Trunk Ports

Command Mode

- /exec/configure

system pss shrink

system pss shrink

Syntax Description

system	System management commands
pss	PSS commands
shrink	shrink pss files

Command Mode

- /exec

system qos

system qos

Syntax Description

system	System management commands
qos	QoS parameters

Command Mode

- /exec/configure

system release mod-lock uuid nodeid

system release mod-lock uuid <uuid-hex> nodeid <nodeid-hex>

Syntax Description

system	System management commands
release	release
mod-lock	module lock
uuid	uuid of the service holding the lock
<i>uuid-hex</i>	uuid
nodeid	node-id
<i>nodeid-hex</i>	nodeid

Command Mode

- /exec

system restart vdc service name

system restart vdc { <e-vdc2> | <vdc-id> } service name <s0>

Syntax Description

system	System management commands
restart	Restart a service
vdc	VDC number
<i>e-vdc2</i>	Enter VDC <vdc-id>
<i>vdc-id</i>	vdc number
service	Service to be restarted
name	Name of a service
<i>s0</i>	Name of service

Command Mode

- /exec/configure

system routing performance-mode

[no] system routing performance-mode

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management Commands
routing	Layer-3 routing
performance-mode	Performance Mode

Command Mode

- /exec/configure

system routing unknown-unicast-flood

[no] system routing unknown-unicast-flood

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management Commands
routing	Layer-3 routing
unknown-unicast-flood	Hardware flood post-routed traffic on SVI if dest-mac->layer2-port binding unknown

Command Mode

- /exec/configure

system shutdown fan-direction mismatch

system shutdown fan-direction mismatch | no system shutdown fan-direction mismatch

Syntax Description

no	Negate a command or set its defaults
system	System management commands
shutdown	Shutdown management commands
fan-direction	Fan-direction check
mismatch	Mismatch in check

Command Mode

- /exec/configure

system standby manual-boot

system no standby manual-boot

Syntax Description

system	System management commands
no	Negate a command or set its defaults
standby	System standby manual boot
manual-boot	No action taken to force-download standby sup

Command Mode

- /exec

system standby manual-boot

system standby manual-boot

Syntax Description

system	System management commands
standby	System standby management commands
manual-boot	No action taken to force-download standby sup

Command Mode

- /exec

system standby reload vdc

system standby reload vdc { <e-vdc2> | <i0> }

Syntax Description

system	System management commands
standby	System standby management commands
reload	Reload
vdc	vdc to reload
<i>e-vdc2</i>	Enter VDC <vdc-id>
<i>i0</i>	vdc number

Command Mode

- /exec

system startup-config init

system startup-config init

Syntax Description

system	System management commands
startup-config	System startup-config commands
init	Initialize the startup-configuration

Command Mode

- /exec

system startup-config kill config-update

system startup-config kill config-update

Syntax Description

system	System management commands
startup-config	System startup-config commands
kill	Kill configuration update
config-update	Kill configuration update

Command Mode

- /exec

system startup-config unlock

system startup-config unlock <i0>

Syntax Description

system	System management commands
startup-config	System startup-config commands
unlock	Unlock startup-config
<i>i0</i>	Startup-config lock id

Command Mode

- /exec

system statistics

system statistics

Syntax Description

system	System management commands
statistics	enables sysmgr statistics

Command Mode

- /exec

system statistics

system no statistics

Syntax Description

system	System management commands
no	Negate a command or set its defaults
statistics	disable the sysmgr statistics

Command Mode

- /exec

system switch-mode

system switch-mode { <mode> }

Syntax Description

system	System management commands
switch-mode	change switch operational mode
<i>mode</i>	switch mode

Command Mode

- /exec/configure

system switchover

system switchover

Syntax Description

system	System management commands
switchover	Switch over to the standby supervisor

Command Mode

- /exec

system switchover force

system switchover force

Syntax Description

system	System management commands
switchover	Switch over to the standby supervisor
force	Force switch over to the standby supervisor

Command Mode

- /exec

system swover-timeout-reset

[no] system swover-timeout-reset

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System management commands
swover-timeout-reset	switchover timeout and reset

Command Mode

- /exec

system trace

{ system trace <i0> | no system trace [<i0>] }

Syntax Description

no	Negate a command or set its defaults
system	System configuration commands
trace	To configure system trace level
<i>i0</i>	Select the mask

Command Mode

- /exec/configure

system urpf disable

[no] system urpf disable

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System Management Commands
urpf	Manage urpf enable/disable
disable	disable

Command Mode

- /exec/configure

system vlan reserve

system vlan <start-val> reserve | no system vlan <start-val> reserve

Syntax Description

system	system wide configuration
no	Select default reserved vlans group vlan 3968-4094
vlan	Vlan commands
<i>start-val</i>	minimum VLANs value
reserve	reservation

Command Mode

- /exec/configure

system vrf-member-change retain-l3-config

[no] system vrf-member-change retain-l3-config

Syntax Description

no	(Optional) Negate a command or set its defaults
system	System management commands
vrf-member-change	vrf member change
retain-l3-config	retain L3 configuration

Command Mode

- /exec/configure

system watchdog

system no watchdog

Syntax Description

system	System management commands
no	Negate a command or set its defaults
watchdog	enables watchdog

Command Mode

- /exec

system watchdog

system watchdog

Syntax Description

system	System management commands
watchdog	enables watchdog

Command Mode

- /exec

system watchdog kgdb

system no watchdog kgdb

Syntax Description

system	System management commands
no	Negate a command or set its defaults
watchdog	enables watchdog
kgdb	enter kgdb on watchdog failure

Command Mode

- /exec

system watchdog kgdb

system watchdog kgdb

Syntax Description

system	System management commands
watchdog	enables watchdog
kgdb	enter kgdb on watchdog failure

Command Mode

- /exec

system watchdog kgdb



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table-map

[no] table-map <rmap-name> [filter]

Syntax Description

no	(Optional) Negate a command or set its defaults
table-map	Apply table-map to filter routes downloaded into URIB
<i>rmap-name</i>	Route-map name
filter	(Optional) Selective route download

Command Mode

- /exec/configure/router-bgp/router-bgp-af

table-map

[no] table-map <policy-name> [filter]

Syntax Description

no	(Optional) Negate a command or set its defaults
table-map	Policy for filtering/modifying OSPF routes before sending them to RIB
<i>policy-name</i>	Route-map name
filter	(Optional) To block the OSPF routes from being sent to RIB

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

table-map

[no] table-map <map> [filter]

Syntax Description

no	(Optional) Negate a command or set its defaults
table-map	Configure Table Map information
<i>map</i>	Route-map name
filter	(Optional) Filter routes which are rejected by route-map

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

table-map

[no] table-map <table-map-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
table-map	Configure a table map
<i>table-map-name</i>	Table map name

Command Mode

- /exec/configure

table-map

table-map <default-tmap-enum-name>

Syntax Description

table-map	Configure a table map
<i>default-tmap-enum-name</i>	

Command Mode

- /exec/configure

table-map

[no] table-map <policy-name> [filter]

Syntax Description

no	(Optional) Negate a command or set its defaults
table-map	Table-map policy used to filter routes and tune attributes before downloading to RIB
filter	(Optional) Filter the routes based on policy results
<i>policy-name</i>	A 'routing-rules' route-map name

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common /exec/configure/router-isis/router-isis-af-ipv4

table-map

[no] table-map <policy-name> [filter]

Syntax Description

no	(Optional) Negate a command or set its defaults
table-map	Table-map policy used to filter routes and tune attributes before downloading to RIB
filter	(Optional) Filter the routes based on policy results
<i>policy-name</i>	A 'routing-rules' route-map name

Command Mode

- /exec/configure/router-isis/router-isis-af-ipv6

table-map

[no] table-map <policy-name> [filter]

Syntax Description

no	(Optional) Negate a command or set its defaults
table-map	Policy for filtering/modifying OSPFV3 routes before sending them to RIB
<i>policy-name</i>	Route-map name
filter	(Optional) To block the OSPFV3 routes from being sent to RIB

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

tac-pac

tac-pac [<uri0>]

Syntax Description

tac-pac	save tac info in a compressed .gz file at specific location
<i>uri0</i>	(Optional) Select destination filesystem

Command Mode

- /exec

tac-pac

```
tac-pac [ <uri0> [ vrf <vrf-known-name> ] ]
```

Syntax Description

<code>tac-pac</code>	save tac info in a compressed .gz file at specific location
<code>uri0</code>	(Optional) Select destination filesystem
<code>vrf</code>	(Optional) Display per-VRF information
<code>vrf-known-name</code>	(Optional) Known VRF name

Command Mode

- /exec

tacacs-server deadtime

[no] tacacs-server deadtime <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
deadtime	duration for which non-reachable server is skipped
<i>i0</i>	Length of time, in minutes

Command Mode

- /exec/configure

tacacs-server directed-request

[no] tacacs-server directed-request

Syntax Description

no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
directed-request	enable direct authentication requests to server

Command Mode

- /exec/configure

tacacs-server host key 0 6 7

```
{ { [ no ] tacacs-server host { <hostipname> } { { key { 0 <s0> | 6 <s6> | 7 <s1> | <s2> } [ port <i1> ] [ timeout <i2> ] } } | { [ port1 <i3> ] [ timeout1 <i4> ] } } } | { no tacacs-server host <hostipname> key } }
```

Syntax Description

<i>key</i>	0
no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
host	TACACS+ server's DNS name or its IP address
<i>hostipname</i>	IPV4/IPV6 address or DNS name
key	TACACS+ shared secret
0	TACACS+ shared secret(clear text)
<i>s0</i>	TACACS+ shared secret(clear text)
port	(Optional) TACACS+ server port
<i>i1</i>	(Optional) TACACS+ server port
timeout	(Optional) TACACS+ server timeout period in seconds
<i>i2</i>	(Optional) TACACS+ server timeout period in seconds
6	TACACS+ shared secret(type-6 encrypted)
<i>s6</i>	TACACS+ shared secret(encrypted)
7	TACACS+ shared secret(encrypted)
<i>s1</i>	TACACS+ shared secret(encrypted)
port1	(Optional) TACACS+ server port
<i>i3</i>	(Optional) TACACS+ server port
timeout1	(Optional) TACACS+ server timeout period in seconds
<i>i4</i>	(Optional) TACACS+ server timeout period in seconds
<i>s2</i>	TACACS+ shared secret(clear text)

Command Mode

- /exec/configure

tacacs-server host test

```
[no] tacacs-server host <hostipnam> test { { username <s0> { [ password <s1> [ idle-time <i1> ] ] } } | { idle-time <i1> } } } | { password <s1> [ idle-time <i1> ] } | { idle-time <i1> } }
```

Syntax Description

<i>username</i>	<s0>
no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
host	TACACS+ server's DNS name or its IP address
<i>hostipnam</i>	IPV4/IPV6 address or DNS name
test	Parameters to send test packets
<i>s0</i>	user name
password	(Optional) user password in test packets
<i>s1</i>	(Optional) user password
idle-time	(Optional) time interval for monitoring the server
<i>i1</i>	(Optional) time period in minutes

Command Mode

- /exec/configure

tacacs-server key 0 6 7

```
{ { [ no ] tacacs-server key { 0 <s0> [ timeout <i0> ] | 6 <s6> [ timeout6 <i6> ] | 7 <s1> [ timeout1 <i1> ] | <s2> [ timeout2 <i2> ] } } | { no tacacs-server key } }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
key	Global TACACS+ server shared secret
0	default TACACS+ shared secret(clear text)
<i>s0</i>	default TACACS+ shared secret(clear text)
timeout	(Optional) Global TACACS+ server timeout period in seconds
<i>i0</i>	(Optional) Global TACACS+ server timeout period in seconds
6	default TACACS+ shared secret(type-6 encrypted)
<i>s6</i>	default TACACS+ shared secret(type-6 encrypted)
timeout6	(Optional) Global TACACS+ server timeout period in seconds
<i>i6</i>	(Optional) Global TACACS+ server timeout period in seconds
7	default TACACS+ shared secret(encrypted)
<i>s1</i>	default TACACS+ shared secret(encrypted)
timeout1	(Optional) Global TACACS+ server timeout period in seconds
<i>i1</i>	(Optional) Global TACACS+ server timeout period in seconds
<i>s2</i>	default TACACS+ shared secret(clear text)
timeout2	(Optional) Global TACACS+ server timeout period in seconds
<i>i2</i>	(Optional) Global TACACS+ server timeout period in seconds

Command Mode

- /exec/configure

tacacs-server test

```
[no] tacacs-server test { { username <s0> { [ password <s1> [ idle-time <i1> ] ] | [ idle-time <i1> ] } } | { password <s1> [ idle-time <i1> ] } | { idle-time <i1> } }
```

Syntax Description

<i>username</i>	<s0>
no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
test	Parameters to send test packets
<i>s0</i>	user name
password	(Optional) user password in test packets
<i>s1</i>	(Optional) user password
idle-time	(Optional) time interval for monitoring the server
<i>i1</i>	(Optional) time period in minutes

Command Mode

- /exec/configure

tacacs-server timeout

[no] tacacs-server timeout <i0>

Syntax Description

no	(Optional) Negate a command or set its defaults
tacacs-server	Configure TACACS+ server related parameters
timeout	Global TACACS+ server timeout period in seconds
<i>i0</i>	Global TACACS+ server timeout period in seconds

Command Mode

- /exec/configure

tacacs enable

[no] tacacs + enable

Syntax Description

no	(Optional) Negate a command or set its defaults
enable	Enable tacacs+

Command Mode

- /exec/configure

tag

```
{ { no | default } tag | tag <text> }
```

Syntax Description

no	
default	Set a command to its defaults
tag	User defined tag
<i>text</i>	Tag string line

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp
/exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho
/exec/configure/ip-sla/http

tag happens in

```
[no] tag <tag_id> <op> <tag_id> [ <op> <tag_id> [ <op> <tag_id> ] ] happens <threshold> in <interval> |
no tag
```

Syntax Description

no	(Optional) Negate a command or set its defaults
tag	event tag identifier
<i>tag_id</i>	tag name
<i>op</i>	boolean operator
happens	The number of occurrences before raising the event
<i>threshold</i>	Occurs value
in	Number of occurrences must occur within this time period
<i>interval</i>	Enter seconds value

Command Mode

- /exec/configure/event-manager-applet

tahoe-python module

tahoe-python module <module>

Syntax Description

tahoe-python	enter python mode for tahoe systems
module	Module number of the linecard
<i>module</i>	Enter module number

Command Mode

- /exec

tahoe-python module quoted

tahoe-python module <module> quoted <quoted-cmd>

Syntax Description

tahoe-python	enter python mode for tahoe systems
module	Module number of the linecard
<i>module</i>	Enter module number
quoted	enter the command with quotes Add multiple commands separated by semi-colon
<i>quoted-cmd</i>	the command(s) to run in tahoe python

Command Mode

- /exec

tail

tail <uri0> [<i1>]

Syntax Description

tail	Display the last part of a file
<i>uri0</i>	Filename to be displayed
<i>i1</i>	(Optional) Enter the number of lines to be displayed

Command Mode

- /exec

tail

| tail [-n <lines>]

Syntax Description

	Pipe command output to filter
tail	Display last lines
-n	(Optional) modify number of lines (default 10)
<i>lines</i>	(Optional) number of lines to print

Command Mode

- /output

tar

```
tar { create <new-archive-file> [ gz-compress | bz2-compress | uncompressed ] + [ remove | absolute | verbose ] + <files> + | append <archive-file> [ remove | absolute | verbose ] + <files> + | extract <archive-file> [ screen | to <dest-dir> | keep-old | verbose ] + | list <archive-file> }
```

Syntax Description

tar	archiving operations
create	create an archive (merge several files together)
append	append some files to an existing archive
extract	extract files from archive (unmerge them)
verbose	(Optional) display files while merging/extracting
gz-compress	(Optional) compress archive with gzip, the default -> .tar.gz
bz2-compress	(Optional) compress archive with bzip2 -> .tar.bz2
uncompressed	(Optional) dont compress archive -> .tar
remove	(Optional) remove files after adding them to the archive
absolute	(Optional) don't strip leading '/'s from file names
keep-old	(Optional) don't replace existing files when extracting
screen	(Optional) extract files to screen
list	shows the list of files which are part of the archive
<i>new-archive-file</i>	the name of the archive (extension will be added if none of tar/tgz/tar.gz/tar.bz2/tbz2/tar.Z specified)
<i>archive-file</i>	the name of the archive (extension will be added if none of tar/tgz/tar.gz/tar.bz2/tbz2/tar.Z specified)
<i>files</i>	name of file to be added into archive
to	(Optional) extract to specific directory (default is bootflash)
<i>dest-dir</i>	(Optional) destination dir where to extract to (created if not exist), default is bootflash

Command Mode

- /exec

tclsh

tclsh <file> [<args>] +

Syntax Description

tclsh	source tclsh script
<i>file</i>	the file to run
<i>args</i>	(Optional) args to tcl script

Command Mode

- /exec

tclsh

tclsh

Syntax Description

tclsh	Execute tclsh
-------	---------------

Command Mode

- /exec

tcp-connect

[no] tcp-connect { <hostname> | <ip-address> } <dest-port> { [control { disable | enable }] [source-ip { <source-ip-hostname> | <source-ip-address> }] [source-port <src-port>] } +

Syntax Description

no	(Optional)
<i>control</i>	(Optional) enable
<i>source-ip-address</i>	(Optional) <src-port>
tcp-connect	TCP Connect Operation
<i>hostname</i>	Destination hostname, broadcast disallowed
<i>ip-address</i>	Destination IP address, broadcast disallowed
<i>dest-port</i>	Port Number (Recommended port range between 1025-65534)
enable	(Optional) Enable control packets exchange (default)
disable	(Optional) Disable control packets exchange
source-ip	(Optional) Source address
<i>source-ip-hostname</i>	(Optional) source IP hostname, broadcast disallowed
source-port	(Optional) Source Port
<i>src-port</i>	(Optional) Port Number (Recommended port range between 1025-65534)

Command Mode

- /exec/configure/ip-sla

telemetry

[no] telemetry

Syntax Description

no	(Optional) Negate a command or set its default
telemetry	

Command Mode

- /exec/configure

telnet

```
{ telnet { <so> | <host> } } [ <i0> ] [ [ source { <host_src> | <interface> } ] [ vrf { <vrf-name> | <vrf-known-name> } ] ]
```

Syntax Description

telnet	Telnet to another system
<i>so</i>	Enter hostname
<i>host</i>	Enter a valid IPv4 address
source	(Optional) Set source address in IPv4 header
<i>host_src</i>	(Optional) Set IPV4 address as source
<i>interface</i>	(Optional) Set interface to send IPv4 packet
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>i0</i>	(Optional) Enter the port number

Command Mode

- /exec

telnet6

```
{ telnet6 { <s1> | <host1> } } [ <i0> ] [ [ source { <host1_src> | <interface> } ] [ vrf { <vrf-name> | <vrf-known-name> } ] ]
```

Syntax Description

telnet6	Telnet6 to another system using IPv6 addressing
<i>s1</i>	Enter hostname
source	(Optional) Set source address in IPv6 header
<i>interface</i>	(Optional) Set interface to send IPv6 packet
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
<i>i0</i>	(Optional) Enter the port number

Command Mode

- /exec

telnet login-attempts

```
{ { telnet login-attempts <d0> } | { no telnet login-attempts [ <d0> ] } }
```

Syntax Description

no	Negate a command or set its defaults
telnet	telnet login
login-attempts	Set maximum login attempts
<i>d0</i>	Specify max-attempt number

Command Mode

- /exec/configure/

telnet server enable

[no] telnet server enable

Syntax Description

no	(Optional) Negate a command or set its defaults
telnet	Enable telnet
server	Enable telnet
enable	Enable telnet

Command Mode

- /exec/configure

template

template <res-mgr-template-known-name-all>

Syntax Description

template	Change the template for this vdc
<i>res-mgr-template-known-name-all</i>	Resource template for this vdc

Command Mode

- /exec/configure/vdc

template data timeout

{ [no] template data timeout <time> | no template data timeout }

Syntax Description

template	Version 9 Template
data	Data
timeout	Template Data resend time
<i>time</i>	Time in seconds

Command Mode

- /exec/configure/nfm-exporter-v9

template peer-policy

[no] template peer-policy <peer-policy-template-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
template	Enter template command mode
peer-policy	Template configuration for policy parameters
<i>peer-policy-template-name</i>	Name of peer-policy template

Command Mode

- /exec/configure/router-bgp

template peer-session

[no] template peer-session <peer-session-template-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
template	Enter template command mode
peer-session	Template configuration for session parameters
<i>peer-session-template-name</i>	Name of peer-session template

Command Mode

- /exec/configure/router-bgp

template peer

[no] template peer <peer-template-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
template	Enter template command mode
peer	Template configuration for peer parameters
<i>peer-template-name</i>	Neighbor template name

Command Mode

- /exec/configure/router-bgp

terminal

terminal { monitor | no { monitor1 | monitor-force } }

Syntax Description

terminal	Set terminal line parameters
monitor	Copy Syslog output to the current terminal line
no	Negate a command or set its defaults
monitor1	Copy Syslog output to the current terminal line
monitor-force	Copy Syslog output to the current terminal line

Command Mode

- /exec

terminal alias

[no] terminal alias [persist] [<alias-name> [<command>]]

Syntax Description

<i>no</i>	(Optional) Negate a command or set its defaults
<i>terminal</i>	Set terminal line parameters
<i>alias</i>	show aliases (if no arguments) create 'exec' aliases (not persistent). Persistent aliases are in config mode, see 'cli alias
<i>persist</i>	(Optional) add terminal alias to <username>.rc.cli file (auto-executed at login time)
<i>alias-name</i>	(Optional) Name of the alias. (if last argument: shows the value of that alias) Command lines can start with an alias and it will be expanded before parsing. An alias can also be used right after a pipe. The substitution text can contain things like '\$1 \$2' and those \$<number> will be substituted by correspondingly numbered token from the command line starting the counting after the alias.
<i>command</i>	(Optional) Value of the alias (what the alias will be substituted with)

Command Mode

- /exec

terminal ask-on-term

[no] terminal ask-on-term <term>

Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
ask-on-term	ask backend driven question on given terminal
<i>term</i>	the terminal (/dev/ptsX)

Command Mode

- /exec

terminal color

[no] terminal color [persist]

Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
color	enable colorization of prompt(green if last command ok, red if error), command line (blue), output (default color)
persist	(Optional) add command to <username>.rc.cli file (auto-execed at login time)

Command Mode

- /exec

terminal context management

[no] terminal context management

Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
context	set the vrf context
management	vrf context management

Command Mode

- /exec

terminal deep-help

[no] terminal deep-help

Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
deep-help	enable cli syntax and list

Command Mode

- /exec

terminal dont-ask

[no] terminal dont-ask [persist]

Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
dont-ask	Don't ask 'are you sure' questions, take default answer instead
persist	(Optional) add command to <username>.rc.cli file (auto-execed at login time)

Command Mode

- /exec

terminal edit-mode vi

[no] terminal edit-mode vi [persist]

Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
edit-mode	set command line edition keys (vi or emacs emacs is default)
vi	edit like in vi by default in insert-mode, use ~ for command-mode
persist	(Optional) add command to <username>.rc.cli file (auto-execed at login time)

Command Mode

- /exec

terminal event-manager bypass

terminal [<noarg>] event-manager bypass

Syntax Description

terminal	Set terminal line parameters
<i>noarg</i>	(Optional)
event-manager	Event manager cli event
bypass	Bypass event manager cli event publish

Command Mode

- /exec

terminal history no-exec-in-config

[no] terminal history no-exec-in-config

Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
history	configure terminal history properties
no-exec-in-config	don't recall exec commands while in config mode

Command Mode

- /exec

terminal history no-exec-in-config

[no] terminal history no-exec-in-config

Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
history	configure terminal history properties
no-exec-in-config	don't recall exec commands while in config mode

Command Mode

- /exec

terminal history no-exec-in-config

[no] terminal history no-exec-in-config

Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
history	configure terminal history properties
no-exec-in-config	don't recall exec commands while in config mode

Command Mode

- /exec

terminal home

terminal home

Syntax Description

terminal	Set terminal line parameters
home	go back to line 1 position 1 without erasing the screen (to be used in cli command loops)

Command Mode

- /exec

terminal length

terminal length <i0>

Syntax Description

terminal	Set terminal line parameters
length	Set number of lines on a screen
<i>i0</i>	Number of lines on screen (0 for no pausing)

Command Mode

- /exec

terminal length

terminal length <i0>

Syntax Description

terminal	Set terminal line parameters
length	Set number of lines on a screen
<i>i0</i>	Number of lines on screen (0 for no pausing)

Command Mode

- /exec/configure/console

terminal lock

terminal lock

Syntax Description

terminal	Set terminal line parameters
lock	Locks the CLI Config mode

Command Mode

- /exec

terminal log-all

[no] terminal log-all

Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Configure terminal settings
log-all	Accounting log all commands including the show commands

Command Mode

- /exec/configure

terminal no

terminal no { length | terminal-type | width }

Syntax Description

terminal	Set terminal line parameters
no	Negate a command or set its defaults
length	Set number of lines on a screen
terminal-type	Set the terminal type
width	Set width of the display terminal

Command Mode

- /exec

terminal output xml

[no] terminal output xml

Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
output	how output of show commands should be formatted
xml	xml output

Command Mode

- /exec

terminal output xml

[no] terminal output xml

Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
output	how output of show commands should be formatted
xml	xml output

Command Mode

- /exec

terminal output xml

[no] terminal output xml <namespace-version>

Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
output	how output of show commands should be formatted
xml	xml output
<i>namespace-version</i>	enter the version for xml output

Command Mode

- /exec

terminal password

terminal password <password> | no terminal password [<password>]

Syntax Description

no	Negate a command or set its defaults
terminal	Set terminal line parameters
password	set a password to be used in copy scp/ftp commands use online help on the argument to disable echo so you don't need to type control-x-e twice (to toggle echo), echo will be re-enabled after carriage-return
<i>password</i>	Enter the password (online help that you just did disabled echo so type your password and press return

Command Mode

- /exec

terminal prompt

[no] terminal prompt [fix [<name>] [with-cr] | mode | { fq-command | command } | status | exec-time | time | no-echo] +

Syntax Description

no	(Optional) Negate a command or set its defaults
terminal	Set terminal line parameters
prompt	configure how the prompt should look like
fix	(Optional) set the prompt to a fix name (default _prompt_)
with-cr	(Optional) add a carriage return at the end of the prompt
<i>name</i>	(Optional) name to use as a fix prompt
mode	(Optional) include the cli mode name (ex: config-if) into the prompt
fq-command	(Optional) include the fully qualified command just executed (formatted like in accounting log)
command	(Optional) include the previous command (not including the mode and mode instance)
status	(Optional) include the status of previous command (0=success)
exec-time	(Optional) include the time it took to execute previous command
time	(Optional) include the time when prompt was printed
no-echo	(Optional) dont echo the typed characters

Command Mode

- /exec

terminal redirection-mode

terminal redirection-mode <mode>

Syntax Description

terminal	Set terminal line parameters
redirection-mode	Set the redirection mode
<i>mode</i>	

Command Mode

- /exec

terminal reset-role

terminal reset-role <num>

Syntax Description

terminal	Set terminal line parameters
reset-role	Reset the privilege role to default
<i>num</i>	Enter the role num

Command Mode

- /exec

terminal reset vlan-config-mutex

terminal reset vlan-config-mutex

Syntax Description

terminal	Set terminal line parameters
reset	Force reset of the vlan config mode mutex
vlan-config-mutex	Vlan configuration mutex

Command Mode

- /exec

terminal session-timeout

terminal session-timeout <i0>

Syntax Description

terminal	Set terminal line parameters
session-timeout	Set session timeout
<i>i0</i>	Enter timeout in minutes, 0 to disable

Command Mode

- /exec

terminal sticky-mode

terminal [<noarg>] sticky-mode

Syntax Description

terminal	Set terminal line parameters
<i>noarg</i>	(Optional)
sticky-mode	Search for the command match in current mode only

Command Mode

- /exec

terminal terminal-type

terminal terminal-type <s0>

Syntax Description

terminal	Set terminal line parameters
terminal-type	Set the terminal type
s0	Terminal type

Command Mode

- /exec

terminal time

terminal time [<name>] [delta]

Syntax Description

terminal	Set terminal line parameters
time	save the current time under a variable
<i>name</i>	(Optional) the variable to store the time in
delta	(Optional) print the delta time to the currently saved time value

Command Mode

- /exec

terminal tree-update

terminal tree-update

Syntax Description

terminal	Set terminal line parameters
tree-update	Updates the main parse tree

Command Mode

- /exec

terminal unlock

terminal unlock

Syntax Description

terminal	Set terminal line parameters
unlock	Force unlocking of the CLI config mode

Command Mode

- /exec

terminal verify-only

terminal [<noarg>] verify-only [username <user>]

Syntax Description

terminal	Set terminal line parameters
<i>noarg</i>	(Optional)
verify-only	Verify command and do not execute
username	(Optional) Username for aaa authorization
<i>user</i>	(Optional) Username for aaa authorization

Command Mode

- /exec

terminal width

terminal width <*i0*>

Syntax Description

terminal	Set terminal line parameters
width	Set width of the display terminal
<i>i0</i>	Number of characters on a screen line

Command Mode

- /exec

terminal width

terminal width <*i0*>

Syntax Description

terminal	Set terminal line parameters
width	Set width of the display terminal
<i>i0</i>	Number of characters on a screen line

Command Mode

- /exec/configure/console

threshold-percent

```
threshold-percent { percent-threshold { percentup <up-percentage> [ percentdown<down-percentage> ] |
percentdown<down-percentage> [ percentup <up-percentage> ] } } | no threshold-percent { percent-threshold
}
```

Syntax Description

no	Negate a command or set its defaults
threshold-percent	Threshold parameters
percent-threshold	Percentage threshold
percentup	Up threshold
<i>up-percentage</i>	Up threshold percentage

Command Mode

- /exec/configure/tr-list-thrp

threshold

{ { no | default } threshold | threshold <milliseconds> }

Syntax Description

no	
default	Set a command to its defaults
threshold	Operation threshold
<i>milliseconds</i>	Millisecond threshold value

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp
/exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho
/exec/configure/ip-sla/http

time-range

[no] time-range <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
time-range	Define time range entries
<i>name</i>	Time range name

Command Mode

- /exec/configure

timeout

{ { no | default } timeout |

Syntax Description

no	
default	Set a command to its defaults
timeout	Timeout of an operation

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp
/exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/dns /exec/configure/ip-sla/fabricPathEcho
/exec/configure/ip-sla/http

timeout

```
{ timeout <timeout> }
```

Syntax Description

timeout	Specify
<i>timeout</i>	Timeout

Command Mode

- /exec/configure/configngoamconnectcheck

timer

timer <value> | no timer

Syntax Description

no	Negate a command or set its defaults
timer	Configure Bundle timer value
<i>value</i>	Hello timer value

Command Mode

- /exec/configure/anycast

timers

timers <keepalive-interval> <hold-time> | { no | default } timers [<keepalive-interval> <hold-time>]

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
timers	Configure keepalive and hold timers
<i>keepalive-interval</i>	Keepalive interval (seconds)
<i>hold-time</i>	Holdtime (seconds)

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

timers

```
timers { <hello-time> { <hold-time> | ms-hold <hold-time-msec> } | ms-hello <hello-time-msec> {
<hold-time-sec> | msec-hold <hold-time-msec> } | redirect <redirect-time> <sec-hold-time> } | no timers [
{ <hello-time> [ { <hold-time> | ms-hold <hold-time-msec> } ] | ms-hello [ <hello-time-msec> [
<hold-time-sec> | msec-hold <hold-time-msec> ] ] | redirect [ <redirect-time> [ <sec-hold-time> ] ] } ]
```

Syntax Description

no	Negate a command or set its defaults
timers	Adjust GLBP timers
<i>hello-time</i>	Specify Hello interval in seconds
<i>hold-time</i>	Specify Hold time in seconds
ms-hold	Specify hold time in milliseconds
<i>hold-time-msec</i>	Hold time in milliseconds
ms-hello	Specify hello interval in milliseconds
<i>hello-time-msec</i>	hello interval in milliseconds
<i>hold-time-sec</i>	Hold time in seconds
msec-hold	Specify hold time in milliseconds
redirect	Specify time-out value for failed forwarders
<i>redirect-time</i>	Interval in seconds to redirect to failed forwarders
<i>sec-hold-time</i>	Time-out interval in seconds for failed forwarders

Command Mode

- /exec/configure/if-eth-any/glbp

timers

timers { <hello-time> { <hold-time> | msec-hold <msec-hold> } | msec-hello <msec-hello> { <hold-time> | msec-hold <msec-hold> } } | no timers

Syntax Description

no	Negate a command or set its defaults
timers	Hello and hold timers
<i>hello-time</i>	Hello interval in seconds
<i>hold-time</i>	Hold time in seconds
msec-hold	Specify hold interval in milliseconds
<i>msec-hold</i>	Hold interval in milliseconds
msec-hello	Specify hello interval in milliseconds
<i>msec-hello</i>	Hello interval in milliseconds

Command Mode

- /exec/configure/if-eth-any/hsrp_ipv4 /exec/configure/if-eth-any/hsrp_ipv6

timers

```
[no] timers { nsf { route-hold <hold-interval> | converge <converge-interval> | signal <signal-interval> } |
active-time [ <max-active-time> | disabled ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
timers	Set EIGRP timers
nsf	EIGRP NSF timer
route-hold	EIGRP hold time for routes learned from nsf peer
<i>hold-interval</i>	Seconds
active-time	EIGRP time limit for active state
<i>max-active-time</i>	(Optional) EIGRP active-state time limit in minutes
disabled	(Optional) disable EIGRP time limit for active state
converge	EIGRP time limit for convergence after switchover
<i>converge-interval</i>	Seconds
signal	EIGRP time limit for signaling NSF restart
<i>signal-interval</i>	Seconds

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

timers advertise

[no] timers advertise | timers advertise <val>

Syntax Description

no	Negate a command or set its defaults
timers	Set the VRRP timers
advertise	Set the advertise timer
<i>val</i>	Advertisement interval in milliseconds

Command Mode

- /exec/configure/if-eth-any/vrrpv3

timers basic

timers basic <update> <invalid> <holddown> <garbage> | no timers basic [<update> <invalid> <holddown> <garbage>]

Syntax Description

no	Negate a command or set its defaults
timers	RIP set timers
basic	RIP set basic timers
<i>update</i>	RIP update period
<i>invalid</i>	RIP route timeout period
<i>holddown</i>	RIP route holddown period
<i>garbage</i>	RIP route garbage period

Command Mode

- /exec/configure/router-rip/router-rip-af-common /exec/configure/router-rip/router-rip-vrf-af-common

timers bestpath-defer maximum

[no] timers bestpath-defer <bestpath-defer-time> maximum <bestpath-defer-time-max>

Syntax Description

no	(Optional) Negate a command or set its defaults
timers	Configure bgp related timers
bestpath-defer	Configure bestpath defer timer value for batch prefix processing
<i>bestpath-defer-time</i>	Bestpath defer time (mseconds)
maximum	Configure bestpath defer timer maximum value
<i>bestpath-defer-time-max</i>	Maximum bestpath defer time (mseconds)

Command Mode

- /exec/configure/router-bgp/router-bgp-af

timers bestpath-limit

timers bestpath-limit <bestpath-timeout> [always] | no timers bestpath-limit [<bestpath-timeout>]

Syntax Description

no	Negate a command or set its defaults
timers	Configure bgp related timers
bestpath-limit	Configure timeout for first bestpath after restart
<i>bestpath-timeout</i>	Bestpath timeout (seconds)
always	(Optional) Configure update-delay-always option

Command Mode

- /exec/configure/router-bgp/vrf-cmds

timers bgp

[no] timers bgp <keepalive-interval> <hold-time>

Syntax Description

no	(Optional) Negate a command or set its defaults
timers	Configure bgp related timers
bgp	Configure different bgp keepalive and holdtimes
<i>keepalive-interval</i>	Keepalive interval (seconds)
<i>hold-time</i>	Holdtime (seconds)

Command Mode

- /exec/configure/router-bgp/vrf-cmds

timers lsa-arrival

```
{ { timers lsa-arrival <interval> } | { no timers lsa-arrival [ <interval> ] } }
```

Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
lsa-arrival	Minimum interval between arrival of a LSA
<i>interval</i>	Interval value (milliseconds)

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

timers lsa-arrival

{ { timers lsa-arrival <interval> } | { no timers lsa-arrival [<interval>] } }

Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
lsa-arrival	Minimum interval between arrival of a LSA
<i>interval</i>	Interval value (millisecond)

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

timers lsa-group-pacing

{ { timers lsa-group-pacing <interval> } | { no timers lsa-group-pacing [<interval>] } }

Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
lsa-group-pacing	LSA group refresh/maxage interval
<i>interval</i>	Interval value (seconds)

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

timers lsa-group-pacing

```
{ { timers lsa-group-pacing <interval> } | { no timers lsa-group-pacing [ <interval> ] } }
```

Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
lsa-group-pacing	LSA group refresh/maxage interval
<i>interval</i>	Interval value (seconds)

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

timers prefix-peer-timeout

timers prefix-peer-timeout <prefixpeer-timeout> | no timers prefix-peer-timeout [<prefixpeer-timeout>]

Syntax Description

no	Negate a command or set its defaults
timers	Configure bgp related timers
prefix-peer-timeout	Configure how long state for a prefix peer is maintained
<i>prefixpeer-timeout</i>	Prefix Peer timeout (seconds)

Command Mode

- /exec/configure/router-bgp/vrf-cmds

timers prefix-peer-wait

timers prefix-peer-wait <prefixpeer-wait> | no timers prefix-peer-wait [<prefixpeer-wait>]

Syntax Description

no	Negate a command or set its defaults
timers	Configure bgp related timers
prefix-peer-wait	Configure wait timer for a prefix peer
<i>prefixpeer-wait</i>	Prefix peer wait timer (seconds)

Command Mode

- /exec/configure/router-bgp/vrf-cmds

timers throttle lsa

```
{ { timers throttle lsa <start-time> <hold-time> <max-time> } | { no timers throttle lsa [ <start-time>
<hold-time> <max-time> ] } }
```

Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
throttle	Set rate-limiting values (milliseconds)
lsa	Set rate-limiting for LSA generation
<i>start-time</i>	Start interval (milliseconds)
<i>hold-time</i>	Hold interval (milliseconds)
<i>max-time</i>	Max interval (milliseconds)

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

timers throttle lsa

```
{ { timers throttle lsa <start-time> <hold-time> <max-time> } | { no timers throttle lsa [ <start-time>
<hold-time> <max-time> ] } }
```

Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
throttle	Set rate-limiting values (milliseconds)
lsa	Set rate-limiting for LSA generation
<i>start-time</i>	Start interval (milliseconds)
<i>hold-time</i>	Hold interval (milliseconds)
<i>max-time</i>	Max interval (milliseconds)

Command Mode

- /exec/configure/router-ospf3 /exec/configure/router-ospf3/vrf

timers throttle spf

```
{ { timers throttle spf <start-time> <hold-time> <max-time> } | { no timers throttle spf [ <start-time>
<hold-time> <max-time> ] } }
```

Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
throttle	Configure timer related constants
spf	OSPF SPF timers
<i>start-time</i>	Initial SPF schedule delay in milliseconds
<i>hold-time</i>	Minimum hold time between SPF calculations
<i>max-time</i>	Maximum wait time between SPF calculations

Command Mode

- /exec/configure/router-ospf /exec/configure/router-ospf/vrf

timers throttle spf

```
{ { timers throttle spf <start-time> <hold-time> <max-time> } | { no timers throttle spf [ <start-time>
<hold-time> <max-time> ] } }
```

Syntax Description

no	Negate a command or set its defaults
timers	Configure timer related constants
throttle	Configure timer related constants
spf	OSPF SPF timers
<i>start-time</i>	Initial SPF schedule delay in milliseconds
<i>hold-time</i>	Minimum hold time between SPF calculations
<i>max-time</i>	Maximum wait time between SPF calculations

Command Mode

- /exec/configure/router-ospf3/router-ospf3-af-ipv6 /exec/configure/router-ospf3/vrf/router-ospf3-af-ipv6

tls

[no] tls

Syntax Description

no	(Optional) Negate a command or set its defaults
tls	One Platform TLS transport configuration mode

Command Mode

- /exec/configure/onep

tls trust-point local remote

tls trust-point local <tp_local> remote <tp_remote> | no tls trust-point

Syntax Description

no	Negate a command or set its defaults
tls	OpenFlow switch tls
trust-point	Configure local and remote trustpoints
local	Configure local trustpoint
<i>tp_local</i>	Local trustpoint name
remote	Configure remote trustpoint
<i>tp_remote</i>	Remote trustpoint name

Command Mode

- /exec/configure/openflow/switch

tls trust-point local remote

tls trust-point local <tp_local> remote <tp_remote> | no tls trust-point

Syntax Description

no	Negate a command or set its defaults
tls	OpenFlow switch tls
trust-point	Configure local and remote trustpoints
local	Configure local trustpoint
<i>tp_local</i>	Local trustpoint name
remote	Configure remote trustpoint
<i>tp_remote</i>	Remote trustpoint name

Command Mode

- /exec/configure/openflow/switch/sub-switch

topology holddown sigerr

[no] topology holddown sigerr | topology holddown sigerr <sec>

Syntax Description

no	Negate a command or set its defaults
topology	Topology Database Configuration
holddown	Topology Database hold down timers
sigerr	Link hold down time for signalling errors
<i>sec</i>	Hold down time in seconds

Command Mode

- /exec/configure/te

tos

{ { no | default } tos | tos <tos-value> }

Syntax Description

no	
default	Set a command to its defaults
tos	Type of Service
<i>tos-value</i>	Type of Service Value

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp /exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/http

tr

```
| tr [ -c | -d | -s | -t ] + <SET1> [ <SET2> ]
```

Syntax Description

	Pipe command output to filter
tr	Translate, squeeze, and/or delete characters
-c	(Optional) first complement SET1
-d	(Optional) delete characters in SET1, do not translate
-s	(Optional) replace each sequence of a repeated character from SET1 with single occurrence of that character
-t	(Optional) first truncate SET1 to length of SET2
<i>SET1</i>	character SET1: CHAR1-CHAR2 = all characters from CHAR1 to CHAR2 in ascending order special chars: (tab) (new line) [:alnum:] [:alpha:] [:digit:] [:graph:] (printable, no space) [:print:] (printable, with space) [:lower:] [:upper:] [:space:] (tab or space)
<i>SET2</i>	(Optional) character SET2 (for translation length is extended to length of SET1 by repeating last char, excess chars are ignored): format same as SET1 [CHAR*] = copies of CHAR until length of SET1 [CHAR*REPEAT] = REPEAT copies of CHAR

Command Mode

- /output

trace buffer size

trace buffer { error | warning | event } size <size>

Syntax Description

trace	MPLS static trace
buffer	MPLS static trace buffer
error	MPLS static error trace
warning	MPLS static warning trace
event	MPLS static event trace
size	trace buffer size in Kbytes
<i>size</i>	trace buffer size in Kbytes

Command Mode

- /exec/configure/mpls_static

tracert

```
tracert { <host> | <hostname> } [ port <portnumber> ] [ [ source-interface <src-intf> ] | [ source { <host> | <hostname> | <interface> } ] ] [ vrf { <vrf-name> | <vrf-known-name> } ] ] ]
```

Syntax Description

tracert	Tracert
<i>host</i>	IP address of remote system
<i>hostname</i>	Hostname of remote system
port	(Optional) Set destination port
<i>portnumber</i>	(Optional) Enter destination port number
source	(Optional) Set source address in IP header
<i>interface</i>	(Optional) Interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
source-interface	(Optional) Select source interface
<i>src-intf</i>	(Optional) Specify interface

Command Mode

- /exec

traceroute6

```
traceroute6 { <host> | <hostname> } [ [ [ source { <host> | <hostname> | <interface> } ] ] vrf { <vrf-name>
| <vrf-known-name> } ] ] [ source-interface <src-intf> ] ]
```

Syntax Description

traceroute6	Traceroute6
<i>hostname</i>	Hostname of remote system
source	(Optional) Set source address in IPv6 header
<i>interface</i>	(Optional) Interface
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
source-interface	(Optional) Select source interface
<i>src-intf</i>	(Optional) Specify interface

Command Mode

- /exec

traceroute mpls

```
traceroute mpls [ { nil-fec labels <comma-separated-labels> } { output { ointerface <tx-interface> } nexthop
<nexthop-ip-addr> } [ { timeout <seconds> } | { destination <addr-start> [ <addr-end> [ <addr-incr-mask> |
<addr-incr> ] ] } | { source <addr> } | { exp <exp-value> } | { ttl <ttl-max> } | { verbose } | { reply { { mode
{ <reply-mode-ipv4> | router-alert | no-reply } } | { dscp { <dscp-bits> | af11 | af12 | af13 | af21 | af22 | af23
| af31 | af32 | af33 | af41 | af42 | af43 | cs1 | cs2 | cs3 | cs4 | cs5 | cs6 | cs7 | default | ef } } } + | {
force-explicit-null } | { flags { fec } } ] + ]
```

Syntax Description

traceroute	need
mpls	Test
nil-fec	(Optional) Target
labels	(Optional) A
<i>comma-separated-labels</i>	(Optional) A
timeout	(Optional) Timeout
<i>seconds</i>	(Optional) Timeout
destination	(Optional) Destination
<i>addr-start</i>	(Optional) Destination
<i>addr-end</i>	(Optional) Destination
<i>addr-incr-mask</i>	(Optional) Destination
<i>addr-incr</i>	(Optional) Destination
source	(Optional) Source
<i>addr</i>	(Optional) Source
exp	(Optional) EXP
<i>exp-value</i>	(Optional) EXP
ttl	(Optional) Maximum
<i>ttl-max</i>	(Optional) TTL
verbose	(Optional) Verbose
reply	(Optional) Reply
mode	(Optional) Reply
reply-mode-ipv4	(Optional) Send

router-alert	(Optional) Send
no-reply	(Optional) Send
dscp	(Optional) DSCP
<i>dscp-bits</i>	(Optional) Differentiated
af11	(Optional) Match
af12	(Optional) Match
af13	(Optional) Match
af21	(Optional) Match
af22	(Optional) Match
af23	(Optional) Match
af31	(Optional) Match
af32	(Optional) Match
af33	(Optional) Match
af41	(Optional) Match
af42	(Optional) Match
af43	(Optional) Match
cs1	(Optional) Match
cs2	(Optional) Match
cs3	(Optional) Match
cs4	(Optional) Match
cs5	(Optional) Match
cs6	(Optional) Match
cs7	(Optional) Match
default	(Optional) Match
ef	(Optional) Match
force-explicit-null	(Optional) Force
output	(Optional) Output
ointerface	(Optional) Echo
<i>tx-interface</i>	(Optional) Echo

nexthop	(Optional) Next
<i>nexthop-ip-addr</i>	(Optional) Next
flags	(Optional) Flag
fec	(Optional) Request

Command Mode

- /exec

traceroute nve

```
traceroute nve { { { ip { <numeric10> | <numeric11> | unknown } } [ vrf { <vrf-name> | <vrf-known-name>
} ] { <dot1qid1> } } } | mac <dmac> <dot1qid> [ <intfid> ] [ profile <pid> ] [ payload { [ mac-addr <dstmac>
<smac> ] [ dot1q <dot1q-id> ] [ ip <dstip> <srcip> | ipv6 <dstipv6> <srcipv6> ] [ port <sport> <dport> ] [
proto <proto-id> ] } payload-end ] [ source { <numeric1> | <numeric2> } ] |
```

Syntax Description

traceroute	Test
nve	network virtualization edge
<i>numeric10</i>	Ipv4 address of remote host / VTEP
unknown	Peer vtep ip is unknown, will be derived from payload
<i>intfid</i>	(Optional) Name of the interface for ngoam traceroute on which dot1q is configured
profile	(Optional) NGOAM profile to use
<i>pid</i>	(Optional) NGOAM profile id
mac	Mac
<i>dmac</i>	Destination mac address
<i>dot1qid</i>	Encapsulation dot1q/bd on which the mac is learnt
<i>dot1qid1</i>	(Optional) Encapsulation dot1q/bd on which the mac is learnt
vrf	(Optional) Display per-VRF information
<i>vrf-name</i>	(Optional) VRF name
<i>vrf-known-name</i>	(Optional) Known VRF name
source	(Optional) Source
<i>numeric1</i>	(Optional) IP
payload	(Optional) Enter customer payload
mac-addr	(Optional) Mac
<i>dstmac</i>	(Optional) Destination mac address
<i>smac</i>	(Optional) Source mac address
dot1q	(Optional) Encapsulation dot1q/bd
<i>dot1q-id</i>	(Optional) Encapsulation dot1q/bd on which the mac is learnt
ip	ip address

<i>dstip</i>	(Optional) Destination ipv4 address
<i>srcip</i>	(Optional) source ipv4 address
<i>ipv6</i>	(Optional) ipv6 address
<i>port</i>	(Optional) L4 port info
<i>sport</i>	(Optional) Source port
<i>dport</i>	(Optional) Destination port
<i>proto</i>	(Optional) Protocol
<i>proto-id</i>	(Optional) IANA Protocol id
<i>payload-end</i>	(Optional) End payload info input

Command Mode

- /exec

track-adjacency-nexthop

[no] track-adjacency-nexthop

Syntax Description

no	(Optional) Negate a command or set its defaults
track-adjacency-nexthop	Track next-hop for same-site Overlay adjacencies

Command Mode

- /exec/configure/otv-isis

track

track <object-id>

Syntax Description

track	Object tracking deletion command
<i>object-id</i>	Tracked Object

Command Mode

- /exec/configure

track

[no] track <object-id> [force]

Syntax Description

no	Negate a command or set its defaults
track	Object tracking deletion command
<i>object-id</i>	Tracked Object
force	(Optional) Completely remove the object

Command Mode

- /exec/configure

track

```
track <object-id> { { ip_v4 route <route-prefix> reachability [ hmm ] } | { ip_v6 routev6 <v6route-prefix> reachability [ hmm ] } }
```

Syntax Description

track	Object tracking configuration command
<i>object-id</i>	Tracked Object
ip_v4	IPv4 protocol
route	IPv4 route
<i>route-prefix</i>	Specify ipv4 route prefix
ip_v6	IPv6 protocol
routev6	IPv6 route
reachability	Route reachability state
hmm	(Optional) Track routes owned by hmm

Command Mode

- /exec/configure

track

```
track <object-id> { ip_v4 sla <sla-id> [ sla_reachability | sla_state ] }
```

Syntax Description

track	Object tracking configuration command
<i>object-id</i>	Tracked Object
ip_v4	IPv4 protocol
sla	IP Service Level Agreement
<i>sla-id</i>	Entry number
sla_reachability	(Optional) Reachability
sla_state	(Optional) return code state

Command Mode

- /exec/configure

track

```
track <object-id> { list { boolean <bool-val> } }
```

Syntax Description

track	Object tracking configuration command
<i>object-id</i>	Tracked Object
list	Object tracking list
boolean	boolean list type
<i>bool-val</i>	boolean list type

Command Mode

- /exec/configure

track

```
track <object-id> { list threshold <weight-val> }
```

Syntax Description

track	Object tracking configuration command
<i>object-id</i>	Tracked Object
list	Object tracking list
threshold	threshold type
<i>weight-val</i>	threshold weight type

Command Mode

- /exec/configure

track

```
track <object-id> { list threshold <percentage-val> }
```

Syntax Description

track	Object tracking configuration command
<i>object-id</i>	Tracked Object
list	Object tracking list
threshold	threshold type
<i>percentage-val</i>	threshold percentage type

Command Mode

- /exec/configure

track

[no] track <object-number> [decrement <value>]

Syntax Description

no	(Optional) Negate a command or set its defaults
track	Associates track object to HSRP group
<i>object-number</i>	Set the object number to the group
decrement	(Optional) Decrements when tracked object goes down
<i>value</i>	(Optional) Set the value to decrement from priority

Command Mode

- /exec/configure/if-eth-any/hsrp_ipv4 /exec/configure/if-eth-any/hsrp_ipv6

track

track <object-number> | no track

Syntax Description

no	Negate a command or set its defaults
track	Associates track object to Anycast Bundle
<i>object-number</i>	Set the object number

Command Mode

- /exec/configure/anycast

track

track <track-obj> | no track <track-obj>

Syntax Description

no	Negate a command or set its defaults
track	Tracking object to suspend vPC if object goes down
<i>track-obj</i>	Tracked object

Command Mode

- /exec/configure/vpc-domain

track data

[no] track data <loc-uri>

Syntax Description

no	(Optional) Negate a command or set its defaults
data	User files to preserve
track	Track file uri
<i>loc-uri</i>	Enter file uri

Command Mode

- /exec/configure/personality

track interface

```
track <object-id> interface <ifnum> { line-protocol | ipv4 routing | ipv6 routingv6 }
```

Syntax Description

track	Object tracking configuration commands
<i>object-id</i>	Tracked Object
interface	Interface to track
<i>ifnum</i>	Interface type and number
line-protocol	Track interface line-protocol
ipv4	IPv4 parameters
routing	Track interface ipv4 routing
ipv6	IPv6 parameters
routingv6	Track interface ipv6 routing

Command Mode

- /exec/configure

track interface priority

```
{ { track { { interface <intf_num> priority <priority_value> } | { <object-num> [ decrement <decrement-value> ] } } } | { no track [ { { interface <intf_num> priority <priority_value> } | { <object-num> [ decrement <decrement-value> ] } } ] } }
```

Syntax Description

no	Negate a command or set its defaults
track	Track the availability of another interface/object
interface	Select the tracked interface(Native tracking)
<i>intf_num</i>	
priority	Vr priority used when the tracked interface is down
<i>priority_value</i>	
<i>object-num</i>	Set the object number to the group(Object tracking)
decrement	(Optional) Decrements priority when tracked object goes down
<i>decrement-value</i>	(Optional) Set the value to decrement from priority

Command Mode

- /exec/configure/if-eth-any/vrrp

track running-state track startup-state

[no] track running-state | [no] track startup-state

Syntax Description

no	(Optional) Negate a command or set its defaults
track	Track file uri
running-state	active patches, third-party RPMs, and running-config
startup-state	committed patches, third-party RPMs, and startup-config

Command Mode

- /exec/configure/personality

tracking enable

```
[no] tracking { enable [ reachable-lifetime { <reach_secs> | infinite } ] | disable [ stale-lifetime { <stale_secs> | infinite } ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
<i>reach_secs</i>	(Optional) Seconds
<i>stale_secs</i>	(Optional) Seconds
infinite	(Optional) Keep entry in chosen state forever

Command Mode

- /exec/configure/config-snoop-policy

traffic-class

{ { no | default } traffic-class | traffic-class <traffic-class> }

Syntax Description

no	
default	Set a command to its defaults
traffic-class	Traffic Class
<i>traffic-class</i>	Traffic Class Value

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp
/exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/http

traffic-share

[no] traffic-share { balanced | { min across-interfaces } }

Syntax Description

no	(Optional) Negate a command or set its defaults
traffic-share	How to compute traffic share over alternate paths
balanced	Share inversely proportional to metric
min	All traffic shared among min metric paths
across-interfaces	Use different interfaces for equal-cost paths

Command Mode

- /exec/configure/router-eigrp/router-eigrp-vrf-common /exec/configure/router-eigrp/router-eigrp-af-common

transmit-delay

```
{ { transmit-delay <delay> } | { no transmit-delay [ <delay> ] } }
```

Syntax Description

no	Negate a command or set its defaults
transmit-delay	Packet transmission delay
<i>delay</i>	(seconds)

Command Mode

- /exec/configure/router-ospf/router-ospf-vlink /exec/configure/router-ospf/vrf/router-ospf-vlink

transmit-delay

```
{ { transmit-delay <delay> } | { no transmit-delay [ <delay> ] } }
```

Syntax Description

no	Negate a command or set its defaults
transmit-delay	Packet transmission delay
<i>delay</i>	(seconds)

Command Mode

- /exec/configure/router-ospf/vrf/router-ospf-slink

transmit-delay

```
{ { transmit-delay <delay> } | { no transmit-delay [ <delay> ] } }
```

Syntax Description

no	Negate a command or set its defaults
transmit-delay	Packet transmission delay
<i>delay</i>	(seconds)

Command Mode

- /exec/configure/router-ospf3/router-ospf3-vlink /exec/configure/router-ospf3/vrf/router-ospf3-vlink

transport connection-mode passive

[no | default] transport connection-mode passive

Syntax Description

no	(Optional) Negate a command or set its defaults
default	(Optional) Inherit values from a peer template
transport	BGP transport connection
connection-mode	Specify type of connection
passive	Allow passive connection setup only

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor /exec/configure/router-bgp/router-bgp-neighbor-stmp
/exec/configure/router-bgp/router-bgp-vrf-neighbor
/exec/configure/router-bgp/router-bgp-template-neighbor

transport email

```
{ transport email { from <s0> | reply-to <s1> | smtp-server { <hostipv4> | <hostipv6> | <hostname> } [ port <i1> ] [ use-vrf <s2> ] } | no transport email smtp-server | no transport email { from | reply-to } }
```

Syntax Description

no	Negate a command or set its defaults
transport	Configure transport related configuration
email	Configure email transport related configuration
from	Configure from email address
<i>s0</i>	Provide from email address, example: SJ-9500-1@xyz.com
reply-to	Configure replyto email address
<i>s1</i>	Provide reply-to email address, example: admin@xyz.com
smtp-server	Configure SMTP server address
<i>hostname</i>	SMTP server(DNS name or IPv4 or IPv6 address)
<i>hostipv4</i>	IPV4 address of SMTP server
port	(Optional) Configure SMTP server port (default:25)
<i>i1</i>	(Optional) SMTP server port
use-vrf	(Optional) Configure vrf name
<i>s2</i>	(Optional) vrf name

Command Mode

- /exec/configure/callhome

transport email mail-server

```
{ [ no ] transport email mail-server { <hostipv4> | <hostipv6> | <hostname> } [ port <i1> ] [ priority <i2> ]
[ use-vrf <s2> ] }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
transport	Configure transport related configuration
email	Configure email transport related configuration
mail-server	Configure SMTP server address (for supporting multiple SMTP-servers)
<i>hostname</i>	SMTP server(DNS name or IPv4 or IPv6 address)
<i>hostipv4</i>	IPV4 address of SMTP server
port	(Optional) Configure SMTP server port (default:25)
<i>i1</i>	(Optional) SMTP server port
use-vrf	(Optional) Configure vrf name
<i>s2</i>	(Optional) vrf name
priority	(Optional) Configure SMTP server priority (1-100) (default:50)
<i>i2</i>	(Optional) SMTP server priority

Command Mode

- /exec/configure/callhome

transport http proxy enable

[no] transport http proxy enable

Syntax Description

no	(Optional) Negate a command or set its defaults
transport	Configure transport related configuration
http	Configure transport option for http urls
proxy	Configure proxy for http transport
enable	Enable the usage of proxy server for messages sent over http(s)

Command Mode

- /exec/configure/callhome

transport http proxy server

```
{ transport http proxy server { <hostname> } [ port <i1> ] } | { no transport http proxy server }
```

Syntax Description

no	Negate a command or set its defaults
transport	Configure transport related configuration
http	Configure transport option for http urls
proxy	Configure proxy for http transport
server	Configure proxy server address and port
<i>hostname</i>	Proxy server name or IP address(DNS name or IPv4 or IPv6 address)
port	(Optional) Configure Proxy server port (default:8080)
<i>i1</i>	(Optional) Proxy server port

Command Mode

- /exec/configure/callhome

transport http use-vrf

transport http use-vrf <s2> | no transport http use-vrf

Syntax Description

no	Negate a command or set its defaults
transport	Configure transport related configuration
http	Configure transport option for http urls
use-vrf	Configure vrf name
s2	vrf name

Command Mode

- /exec/configure/callhome

<i>localtp</i>	(Optional) Local Trust Point Name
<i>remotecert</i>	(Optional) Remote Certificate Validation
<i>remotetp</i>	(Optional) Remote Trust Point Name
<i>port</i>	(Optional) Port number
<i>tpportnum</i>	(Optional) Number
<i>access-class</i>	(Optional) Filter incoming connections based on IP access list
<i>aclname</i>	(Optional) IP access list name

Command Mode

- /exec/configure/onep

transport udp

{ [no] transport udp <portnumber> | no transport udp }

Syntax Description

transport	Transport Destination Port
udp	Destination UDP Port
<i>portnumber</i>	Destination UDP Port

Command Mode

- /exec/configure/nfm-exporter

trigger reset

trigger reset

Syntax Description

trigger	Define A Trigger
reset	Reset triggers

Command Mode

- /exec/elamns

trusted-port

[no] trusted-port

Syntax Description

no	(Optional) Negate a command or set its defaults
----	---

Command Mode

- /exec/configure/config-snoop-policy

trusted-port

[no] trusted-port

Syntax Description

no	(Optional) Negate a command or set its defaults
----	---

Command Mode

- /exec/configure/config-dhcp-guard

trusted-port

[no] trusted-port

Syntax Description

no	(Optional) Negate a command or set its defaults
----	---

Command Mode

- /exec/configure/config-ra-guard

trustpoint server-identity

{ trustpoint server-identity <tp-server> } | { no trustpoint server-identity [<tp-server>] } | { [no] trustpoint client-verification <tp-client> }

Syntax Description

no	Negate a command or set its defaults
trustpoint	Trustpoint configuration
server-identity	Server trustpoint
<i>tp-server</i>	Trustpoint name
client-verification	Client trustpoint
<i>tp-client</i>	Trustpoint name

Command Mode

- /exe/configure/onep/tls

ttag-marker-interval

[no] ttag-marker-interval <seconds>

Syntax Description

no	(Optional) Negate a command or set its defaults
ttag-marker-interval	Marker packet interval
<i>seconds</i>	Interval in seconds

Command Mode

- /exec/configure

ttag-marker enable

[no] ttag-marker enable

Syntax Description

no	(Optional) Negate a command or set its defaults
ttag-marker	Enable/Disable marker packet on interface
enable	Enable/Disable marker packet on interface

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ttag

[no] ttag

Syntax Description

no	(Optional) Negate a command or set its defaults
ttag	enable ingress packet with ttag on this interface

Command Mode

- /exec/configure/if-eth-base /exec/configure/if-ethernet-all

ttl-security hops

ttl-security hops <ebgp-ttl> | { no | default } ttl-security hops [<ebgp-ttl>]

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
ttl-security	Enable TTL Security Mechanism
hops	Specify hop count for remote peer
<i>ebgp-ttl</i>	EBGP hop count value

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

tunnel destination

tunnel destination { { <ip-addr> | <ip-prefix> | { <ip-addr> <ip-mask> } } | <ipv6-addr> } | no tunnel destination
[<ip-addr> | <ip-prefix> | { <ip-addr> <ip-mask> } | <ipv6-addr>]

Syntax Description

no	Negate a command or set its defaults
tunnel	protocol-over-protocol tunneling
destination	destination of tunnel packets
<i>ip-addr</i>	IPv4 address (A.B.C.D)
<i>ip-prefix</i>	IPv4 mask (A.B.C.D/LEN)
<i>ip-mask</i>	IPv4 mask A.B.C.D

Command Mode

- /exec/configure/if-gre-tunnel

tunnel mode

tunnel mode { { gre [ip | ipv6] } | { ipip [ip | ipv6] } | { ipip decapsulate-any [ip | ipv6] } | { ipv6ip [decapsulate-any] } | { ipv6ipv6 [decapsulate-any] } } | no tunnel mode

Syntax Description

no	Negate a command or set its defaults
tunnel	protocol-over-protocol tunneling
mode	tunnel encapsulation method
gre	generic route encapsulation protocol
ipip	IP in IP protocol
decapsulate-any	decapsulate any
ip	(Optional) over IP
ipv6	(Optional) over IPv6
ipv6ip	IPv6 in IPv4 protocol
ipv6ipv6	IPv6 in IPv6 protocol

Command Mode

- /exec/configure/if-any-tunnel

tunnel path-mtu-discovery

[no] tunnel path-mtu-discovery

Syntax Description

no	(Optional) Negate a command or set its defaults
tunnel	protocol-over-protocol tunneling
path-mtu-discovery	Enable Path MTU Discovery on tunnel

Command Mode

- /exec/configure/if-any-tunnel

tunnel path-mtu-discovery age-timer

tunnel path-mtu-discovery age-timer { <age-time> | infinite } | no tunnel path-mtu-discovery age-timer [{ <age-time> | infinite }]

Syntax Description

no	Negate a command or set its defaults
tunnel	protocol-over-protocol tunneling
path-mtu-discovery	Enable Path MTU Discovery on tunnel
age-timer	Set PMTUD aging timer
<i>age-time</i>	Aging time
infinite	Disable pathmtu aging timer

Command Mode

- /exec/configure/if-any-tunnel

tunnel path-mtu-discovery min-mtu

tunnel path-mtu-discovery min-mtu <mtu> | no tunnel path-mtu-discovery min-mtu [<mtu>]

Syntax Description

no	Negate a command or set its defaults
tunnel	protocol-over-protocol tunneling
path-mtu-discovery	Enable Path MTU Discovery on tunnel
min-mtu	Min pmtud mtu allowed
<i>mtu</i>	Bytes

Command Mode

- /exec/configure/if-any-tunnel

tunnel source

tunnel source { <intf> | <ip-prefix> | { <ip-addr> [<ip-mask>] } | <ipv6-addr> | direct } | no tunnel source [<intf> | <ip-prefix> | { <ip-addr> [<ip-mask>] } | <ipv6-addr> | direct]

Syntax Description

no	Negate a command or set its defaults
tunnel	protocol-over-protocol tunneling
source	source of tunnel packets
<i>intf</i>	interface
<i>ip-addr</i>	IPv4 address (A.B.C.D)
<i>ip-prefix</i>	IPv4 address (A.B.C.D/LEN)
<i>ip-mask</i>	(Optional) IPv4 mask A.B.C.D
direct	all directly connected IP

Command Mode

- /exec/configure/if-gre-tunnel

tunnel ttl

tunnel ttl <ttl_val> | no tunnel ttl [<ttl_val>]

Syntax Description

no	Negate a command or set its defaults
tunnel	protocol-over-protocol tunneling
ttl	set time to live
<i>ttl_val</i>	time to live value

Command Mode

- /exec/configure/if-any-tunnel

tunnel use-vrf

```
tunnel use-vrf { <vrf-name> | <vrf-known-name> } | no tunnel use-vrf [ { <vrf-name> | <vrf-known-name> } ]
```

Syntax Description

no	Negate a command or set its defaults
tunnel	protocol-over-protocol tunneling
use-vrf	set tunnel vrf membership
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name

Command Mode

- /exec/configure/if-any-tunnel



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udf

```
udf <udf_name> { packet-start | { header { outer | inner } { 13 | 14 } } } <offset> <length> | no udf <udf_name>
[ { packet-start | { header { outer | inner } { 13 | 14 } } } <offset> <length> ]
```

Syntax Description

no	Negate the command
udf	Define the User Defined Field (UDF)
<i>udf_name</i>	Name of the UDF to configure
packet-start	Offset base from packet-start
header	Offset base configuration
outer	Offset base: from outer header
inner	Offset base: from inner header
13	Offset base: from 13 header
14	Offset base: from 14 header
<i>offset</i>	Enter Offset in bytes for UDF (from offset base)
<i>length</i>	Enter Length in bytes for UDF (from offset)

Command Mode

- /exec/configure

udld aggressive

udld aggressive

Syntax Description

udld	UDLD protocol
aggressive	Enable UDLD aggressive mode on all fiber optic ports

Command Mode

- /exec/configure

udld aggressive

[no] udld aggressive

Syntax Description

no	Negate a command or set its defaults
udld	UDLD protocol
aggressive	Enable UDLD aggressive mode on all fiber optic ports

Command Mode

- /exec/configure

udld aggressive

udld aggressive

Syntax Description

udld	UDLD protocol
aggressive	Enable UDLD aggressive mode for interface(s)

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

udld aggressive

[no] udld aggressive

Syntax Description

no	Negate a command or set its defaults
udld	UDLD protocol
aggressive	Enable UDLD aggressive mode for interface(s)

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

udld continue-on-err

[no] udld continue-on-err

Syntax Description

no	(Optional) Negate a command or set its defaults
udld	UDLD protocol
continue-on-err	Force UDLD continue without disabling the port

Command Mode

- /exec

udld disable

udld disable

Syntax Description

udld	UDLD protocol
disable	Disable UDLD for fiber interface(s)

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

udld disable

[no] udld disable

Syntax Description

no	Negate a command or set its defaults
udld	UDLD protocol
disable	Disable UDLD for fiber interface(s)

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

udld enable

udld enable

Syntax Description

udld	UDLD protocol
enable	Enable UDLD for non-fiber interface(s)

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

udld enable

[no] udld enable

Syntax Description

no	Negate a command or set its defaults
udld	UDLD protocol
enable	Enable UDLD for non-fiber interface(s)

Command Mode

- /exec/configure/if-ethernet-all /exec/configure/if-eth-base

udld message-time

udld message-time <i0> | no udld message-time

Syntax Description

no	Negate a command or set its defaults
udld	UDLD protocol
message-time	Setting the time in seconds between UDLD probe messages
<i>i0</i>	Enter the message timer value [default = 15]

Command Mode

- /exec/configure

udld reset

udld reset

Syntax Description

udld	UDLD protocol
reset	Reset all ports shut down by UDLD

Command Mode

- /exec/configure

udp-echo

```
[no] udp-echo { <hostname> | <ip-address> } <port> { [ control { disable | enable } ] [ source-ip { <source-ip-hostname> | <source-ip-address> } ] [ source-port <source-port-number> ] } +
```

Syntax Description

no	(Optional)
<i>control</i>	(Optional) enable
<i>source-ip-address</i>	(Optional) <source-port-number>
udp-echo	UDP Echo Operation
<i>hostname</i>	Destination hostname, broadcast disallowed
<i>ip-address</i>	Destination IP address, broadcast disallowed
<i>port</i>	Port Number (Recommended port range between 1025-65534)
enable	(Optional) Enable control packets exchange (default)
disable	(Optional) Disable control packets exchange
source-ip	(Optional) Source address
<i>source-ip-hostname</i>	(Optional) source IP hostname, broadcast disallowed
source-port	(Optional) Source Port
<i>source-port-number</i>	(Optional) Port Number (Recommended port range between 1025-65534)

Command Mode

- /exec/configure/ip-sla

udp-jitter

```
[no] udp-jitter { <hostname> | <ip-address> } <dest-port> { { [ codec { g711alaw | g711ulaw | g729a } { [ advantage-factor <advantage-num> ] [ codec-interval <codec-int> ] [ codec-numpackets <codec-numpack> ] [ codec-size <codec-bytes> ] } } + } [ control { disable | enable } ] [ source-ip { <source-ip-hostname> | <source-ip-address> } ] [ source-port <src-port> ] } + | { [ interval <packet-interval> ] [ num-packets <num-packets> ] [ control { disable | enable } ] [ source-ip { <source-ip-hostname> | <source-ip-address> } ] [ source-port <src-port> ] } + }
```

Syntax Description

no	(Optional)
<i>codec</i>	(Optional) g711alaw
<i>codec-numpackets</i>	(Optional) codec-size
<i>source-port</i>	(Optional) interval
<i>codec-numpack</i>	(Optional) <codec-bytes>
<i>source-ip-hostname</i>	(Optional) <source-ip-address>
udp-jitter	UDP Jitter Operation
<i>hostname</i>	Destination hostname, broadcast disallowed
<i>ip-address</i>	Destination IP address, broadcast disallowed
<i>dest-port</i>	Port Number (Recommended port range between 1025-65534)
g711alaw	(Optional) G.711 A Law 64000 bps
g711ulaw	(Optional) G.711 U Law 64000 bps
g729a	(Optional) G.729 8000 bps
advantage-factor	(Optional) Advantage Factor
codec-interval	(Optional) Inter Packet Interval
codec-size	(Optional) Number of bytes in payload
<i>advantage-num</i>	(Optional) Advantage Factor
<i>codec-int</i>	(Optional) Delay
<i>codec-bytes</i>	(Optional) Number of bytes in payload
<i>packet-interval</i>	(Optional) Delay (default 20)
<i>num-packets</i>	(Optional) Number of Packets (default 10)
interval	(Optional) Inter Packet Interval

num-packets	(Optional) Number of Packets to be transmitted
control	(Optional) Enable or disable control packets
enable	(Optional) Enable control packets exchange (default)
disable	(Optional) Disable control packets exchange
source-ip	(Optional) Source address
<i>source-ip-hostname</i>	(Optional) source IP hostname, broadcast disallowed
<i>source-ip-address</i>	(Optional) source IP address, broadcast disallowed
source-port	(Optional) Source Port
<i>src-port</i>	(Optional) Port Number (Recommended port range between 1025-65534)

Command Mode

- /exec/configure/ip-sla

undebug all

undebug all

Syntax Description

undebug	Disable Debugging functions (See also debug)
all	Disable all debugging

Command Mode

- /exec

undebg l2rib

undebg l2rib

Syntax Description

undebg	Disable Debugging functions (See also debug)
l2rib	L2RIB debug commands

Command Mode

- /exec

uniq

| uniq [-c | -d | -f <nb-of-fields> | -s <nb-of-chars> | -u | -w <nb-chars-to-compare> | -i] +

Syntax Description

	Pipe command output to filter
uniq	Discard all but one of successive identical lines
-c	(Optional) prefix lines by the number of occurrences
-d	(Optional) only print duplicate lines
-f	(Optional) avoid comparing the first N fields
-s	(Optional) avoid comparing the first N characters
-u	(Optional) only print unique lines
-w	(Optional) compare no more than N characters in lines
-i	(Optional) ignore differences in case when comparing
<i>nb-of-fields</i>	(Optional) number of initial fields to ignore
<i>nb-of-chars</i>	(Optional) number of initial chars to ignore
<i>nb-chars-to-compare</i>	(Optional) max number of chars to compare

Command Mode

- /output

unmount slot0

unmount slot0:

Syntax Description

unmount	unmount expansion flash or USB storage
slot0:	Unmount expansion flash

Command Mode

- /exec

unsuppress-map

unsuppress-map <unsupp-rmap-name> | { no | default } unsuppress-map [<unsupp-rmap-name>]

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
unsuppress-map	Route-map to selectively unsuppress suppressed routes
<i>unsupp-rmap-name</i>	Route-map name

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

untagged cos

untagged cos <ucos-value> | no untagged cos

Syntax Description

no	Negate a command or set its defaults
untagged	default to use for untagged packets on interface
cos	IEEE 802.1Q class of service for QoS classification
<i>ucos-value</i>	COS value

Command Mode

- /exec/configure/if-set-qos

update-rib-always

[no] update-rib-always

Syntax Description

no	(Optional) Negate a command or set its defaults
update-rib-always	Force updates to rib

Command Mode

- /exec/configure/otv-isis

update-source

update-source <interface> | no update-source

Syntax Description

no	Negate a command or set its defaults
update-source	Specify source of BMP session and messages
<i>interface</i>	Interface name

Command Mode

- /exec/configure/router-bgp/router-bgp-bmp-server

update-source

update-source <interface> | { no | default } update-source [<interface>]

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
update-source	Specify source of BGP session and updates
<i>interface</i>	Interface name

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor-sess

update adjacency

update adjacency <all>

Syntax Description

update	Update
adjacency	Display adjacency table
all	Update all adjcencies

Command Mode

- /exec

update ip route

```
update ip { route | rnh } [ vrf { <vrf-name> | <vrf-known-name> | <vrf-all> } ] <all>
```

Syntax Description

update	Update
ip	IPv4
route	Update routing information
rnh	Update only RNH information
vrf	(Optional) 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
all	Update all routes

Command Mode

- /exec

update ipv6 route

update ipv6 route [vrf { <vrf-name> | <vrf-known-name> | <vrf-all> }] <all>

Syntax Description

update	Update
ipv6	IPv6
route	Update routing information
vrf	(Optional) 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
all	Update all routes

Command Mode

- /exec

update license

```
update license <uri0> { <license-file> [ force ] | <s0> }
```

Syntax Description

update	Update license
license	Update a license file
<i>uri0</i>	Specify URL for the new license file
<i>license-file</i>	License file to be updated
force	(Optional) Force update license (don't prompt)
<i>s0</i>	License file to be updated

Command Mode

- /exec

urib debugs-dump-to-file

urib debugs-dump-to-file

Syntax Description

urib	Unicast Routing Information Base
debugs-dump-to-file	Dump all urib debugs to a file

Command Mode

- /exec

use-compression gzip

use-compression { gzip } | no use-compression

Syntax Description

no	Negate a command or set its defaults
use-compression	Specify the destination compression method
gzip	GZIP compression algorithm

Command Mode

- /exec/configure/telemetry/destination-profile

use-vrf

```
[no] use-vrf { management | default | <vrf_name> }
```

Syntax Description

no	(Optional) Negate a command or set its defaults
use-vrf	vrf to be used to contact servers in this group
management	management vrf
default	default vrf
<i>vrf_name</i>	name of the vrf

Command Mode

- /exec/configure/radius

use-vrf

[no] use-vrf { <vrf-name> | <vrf-known-name> }

Syntax Description

no	(Optional) Negate a command or set its defaults
use-vrf	Display per-VRF information
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name

Command Mode

- /exec/configure/ldap

use-vrf

[no] use-vrf { management | default | <vrf_name> }

Syntax Description

no	(Optional) Negate a command or set its defaults
use-vrf	vrf to be used to contact servers in this group
management	management vrf
default	default vrf
<i>vrf_name</i>	name of the vrf

Command Mode

- /exec/configure/tacacs+

use-vrf

use-vrf { default | <vrf-cfg-name> } | no use-vrf

Syntax Description

no	Negate a command or set its defaults
use-vrf	Specify the destination vrf
default	Known VRF name
<i>vrf-cfg-name</i>	Configurable VRF name

Command Mode

- /exec/configure/telemetry/destination-profile

user-jid password

[no] user-jid <jid> password [0 <clear> | 7 <encrypted> | <password>]

Syntax Description

no	(Optional) Negate a command or set its defaults
user-jid	User Jabber ID
<i>jid</i>	Enter user Jabber ID
password	Password
0	(Optional) Password that follows should be in clear text
<i>clear</i>	(Optional) Password in clear text
7	(Optional) Password that follows should be in encrypted text
<i>encrypted</i>	(Optional) Encrypted password
<i>password</i>	(Optional) Enter password in clear text

Command Mode

- /exec/configure/fabric-db/server-xmpp

user max-logins

user max-logins <limit>

Syntax Description

user	Configure system-wide user settings
max-logins	maximum simultaneous logins
<i>limit</i>	login session maximum

Command Mode

- /exec/configure

user max-logins

[no] user max-logins [<limit>]

Syntax Description

no	Negate a command or set its defaults
user	Configure system-wide user settings
max-logins	maximum simultaneous logins
<i>limit</i>	(Optional) login session maximum

Command Mode

- /exec/configure

username

```
{ username <s0> [ password { 0 <s2> | 5 <s3> | <s4> } ] [ expire <s5> [ past ] ] [ priv-lvl <p> ] } | { username
<s0> [ password { 0 <s2> | 5 <s3> | <s4> } ] [ priv-lvl <p> ] [ expire <s5> [ past ] ] } | { username <s0> [
expire <s5> [ past ] ] [ password { 0 <s2> | 5 <s3> | <s4> } ] [ priv-lvl <p> ] } | { username <s0> [ expire
<s5> [ past ] ] [ priv-lvl <p> ] [ password { 0 <s2> | 5 <s3> | <s4> } ] } | { username <s0> [ priv-lvl <p> ] [
password { 0 <s2> | 5 <s3> | <s4> } ] [ expire <s5> [ past ] ] } | { username <s0> [ priv-lvl <p> ] [ expire
<s5> [ past ] ] [ password { 0 <s2> | 5 <s3> | <s4> } ] } | { no username <s7> [ priv-lvl <p> ] }
```

Syntax Description

no	Negate a command or set its defaults
username	Configure user information.
<i>s0</i>	user name
password	(Optional) Password for the user
0	(Optional) Indicates that the password that follows should be in clear text
<i>s2</i>	(Optional) Password for the user (clear text)
5	(Optional) Indicates that the password that follows should be encrypted
<i>s3</i>	(Optional) strongly encrypted password
<i>s4</i>	(Optional) Password for the user (clear text)
expire	(Optional) Expiry date for this user account(in YYYY-MM-DD format)
<i>s5</i>	(Optional) Expiry in YYYY-MM-DD format
past	(Optional) Expiry date is in past
<i>s7</i>	user name
priv-lvl	(Optional) privilege level which the user is to be assigned to
<i>p</i>	(Optional) privilege level

Command Mode

- /exec/configure

username

{ [no] username <name> }

Syntax Description

username	user name
<i>name</i>	user name

Command Mode

- /exec/configure/dot1x-cred

username

```
{ username <s0> [ password { 0 <s2> | 5 <s3> | <s4> } ] [ expire <s5> [ past ] ] [ role <s6> ] } | { username
<s0> [ password { 0 <s2> | 5 <s3> | <s4> } ] [ role <s6> ] [ expire <s5> [ past ] ] } | { username <s0> [ expire
<s5> [ past ] ] [ password { 0 <s2> | 5 <s3> | <s4> } ] [ role <s6> ] } | { username <s0> [ expire <s5> [ past
] ] [ role <s6> ] [ password { 0 <s2> | 5 <s3> | <s4> } ] } | { username <s0> [ role <s6> ] [ password { 0 <s2>
| 5 <s3> | <s4> } ] [ expire <s5> [ past ] ] } | { username <s0> [ role <s6> ] [ expire <s5> [ past ] ] [ password
{ 0 <s2> | 5 <s3> | <s4> } ] } | { no username <s7> [ role <s8> ] }
```

Syntax Description

no	Negate a command or set its defaults
username	Configure user information.
s0	user name
password	(Optional) Password for the user
0	(Optional) Indicates that the password that follows should be in clear text
s2	(Optional) Password for the user (clear text)
5	(Optional) Indicates that the password that follows should be encrypted
s3	(Optional) strongly encrypted password
s4	(Optional) Password for the user (clear text)
expire	(Optional) Expiry date for this user account(in YYYY-MM-DD format)
s5	(Optional) Expiry in YYYY-MM-DD format
past	(Optional) Expiry date is in past
role	(Optional) role which the user is to be assigned to
s6	(Optional) role name
s7	user name
s8	(Optional) role name

Command Mode

- /exec/configure

username

```
{ username <s0> { shelltype { vsh | bash } } }
```

Syntax Description

username	Configure user information.
<i>s0</i>	user name
shelltype	Choose shell type for login
vsh	use vsh shell
bash	use bash shell

Command Mode

- /exec/configure

username

```
[no] username <s0> { sshkey2 { file <uri0> | <line> } }
```

Syntax Description

<i>no</i>	(Optional) Negate a command or set its defaults
<i>username</i>	Configure user information.
<i>s0</i>	user name
<i>sshkey2</i>	Update ssh key for the user for ssh authentication
<i>file</i>	ssh key file
<i>uri0</i>	file containing host public key for the user
<i>line</i>	ssh key for the user

Command Mode

- /exec/configure

username keypair export dsa

```
{ username <s0> keypair export <s1> { dsa | rsa } [ force ] }
```

Syntax Description

username	Configure user information.
keypair	Use existing ssh keypair
export	Export keypair to Bootflash/Remote directory
force	(Optional) Force the export of keys even if the destination files are present
dsa	Use DSA Keys
rsa	Use RSA Keys
<i>s0</i>	user name
<i>s1</i>	Enter filename to export to

Command Mode

- /exec/configure

username keypair generate dsa

```
{ username <s0> keypair generate { dsa [ force ] | rsa [ <i0> | <oldrange> ] [ force ] } | no username <s0>
keypair generate [ { dsa [ force ] | rsa [ <i0> | <oldrange> ] [ force ] } ] }
```

Syntax Description

no	Negate a command or set its defaults
username	Configure user information.
<i>s0</i>	user name
generate	Generate ssh key pairs
keypair	Generate SSH User Keys
dsa	Generate DSA keys
force	(Optional) Force the generation of keys even if previous ones are present
rsa	Generate RSA keys
<i>i0</i>	(Optional) Enter number of bits (in multiples of 8)
<i>oldrange</i>	(Optional) Enter number of bits

Command Mode

- /exec/configure

username keypair import dsa

```
{ username <s0> keypair import <s1> { dsa | rsa } [ force ] }
```

Syntax Description

username	Configure user information.
keypair	Use existing ssh keypair
import	Import keypair from Bootflash/Remote directory
force	(Optional) Force the generation of keys even if previous ones are present
dsa	Use DSA Keys
rsa	Use RSA Keys
<i>s0</i>	user name
<i>s1</i>	Enter filename to import

Command Mode

- /exec/configure

username password

[no] username <user> password { 0 <pass1> | 5 <pass2> | <pass3> }

Syntax Description

no	(Optional) Negate a command or set its defaults
username	Configure user name
<i>user</i>	Username
password	Password for user
0	Indicates that the password that follows should be in clear text
<i>pass1</i>	Password for the user (clear text)
5	Indicates that the password that follows should be encrypted
<i>pass2</i>	strongly encrypted password
<i>pass3</i>	Password for the user (clear text)

Command Mode

- /exec/configure/vmt-conn

username ssh-cert-dn dsa

[no] username <s1> ssh-cert-dn <s2> { dsa | rsa }

Syntax Description

no	(Optional) Negate a command or set its defaults
username	Configure user information.
<i>s1</i>	user name
ssh-cert-dn	Update cert dn
<i>s2</i>	distinguished name to be used
dsa	Use dsa algorithm
rsa	Use rsa algorithm

Command Mode

- /exec/configure

username sshkey

```
{ username <s0> sshkey { file <uri0> | <line> } | no username <s0> sshkey }
```

Syntax Description

username	Configure user information.
<i>s0</i>	user name
sshkey	Update ssh key for the user for ssh authentication
file	ssh key file
<i>uri0</i>	file containing host public key for the user
<i>line</i>	ssh key for the user
no	Negate a command or set its defaults

Command Mode

- /exec/configure

userpassphrase

[no] userpassphrase { min-length | max-length | length }

Syntax Description

no	Negate a command or set its defaults
userpassphrase	user passphrase
min-length	passphrase minimum length
max-length	passphrase maximum length
length	passphrase min and max length

Command Mode

- /exec/configure

userpassphrase min

userpassphrase { min-length <min-len> | max-length <max-len> } +

Syntax Description

userpassphrase	user passphrase
min-length	passphrase minimum length
max-length	passphrase maximum length
<i>min-len</i>	minimum length of passphrase
<i>max-len</i>	maximum length of passphrase

Command Mode

- /exec/configure

userprofile trustedCert CRLLookup user-switch-bind user-certdn-match user-pubkey-match attribute-name search-filter base-DN

{ userprofile | trustedCert | CRLLookup | user-switch-bind | user-certdn-match | user-pubkey-match }
attribute-name <s0> search-filter <s1> base-DN <s2>

Syntax Description

userprofile	Set the userprofile
trustedCert	Set the trustedCert
CRLLookup	Set the CRLLookup
user-switch-bind	Set the user-switch-bind
user-certdn-match	Set the certificate matching
user-pubkey-match	Set the pubkey matching
attribute-name	LDAP attribute-name
<i>s0</i>	Search Map attribute-name
search-filter	LDAP search-filter
<i>s1</i>	Search Map search-filter
base-DN	LDAP base-DN
<i>s2</i>	Search Map base-DN Name

Command Mode

- /exec/configure/ldap/search

userprofile trustedCert CRLLookup user-switch-bind user-certdn-match user-pubkey-match attribute-name search-filter base-DN



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validate-xml

| validate-xml

Syntax Description

	Pipe command output to filter
validate-xml	validate an xml output according to .xsd definitions

Command Mode

- /output

validate-xml

| validate-xml

Syntax Description

	Pipe command output to filter
validate-xml	validate an xml output according to .xsd definitions

Command Mode

- /output

variance

{ { variance <variance> } | { no variance [<variance>] } }

Syntax Description

no	Negate a command or set its defaults
variance	Control load balancing variance
<i>variance</i>	Metric variance multiplier

Command Mode

- /exec/configure/router-igrp/router-igrp-vrf-common /exec/configure/router-igrp/router-igrp-af-common

vdc

```
vdc <e-vdc> [ id <new_id> ] [ type <vtype> ]
```

Syntax Description

vdc	Manage Virtual Device Context
<i>e-vdc</i>	Enter Virtual Device Context <vdc-id>
id	(Optional) force this vdc into a specific id
<i>new_id</i>	(Optional) force this vdc into a specific id
type	(Optional) Create vdc with a special set of services
<i>vtype</i>	(Optional) type of vdc

Command Mode

- /exec/configure

vdc

[no] vdc <e-vdc> [force]

Syntax Description

no	Negate a command or set its defaults
vdc	Manage Virtual Device Context
<i>e-vdc</i>	Enter Virtual Device Context <vdc-id>
force	(Optional) Force ungraceful cleanup

Command Mode

- /exec/configure

vdc combined-hostname

[no] vdc combined-hostname

Syntax Description

no	(Optional) Negate a command or set its defaults
vdc	Manage Virtual Device Context
combined-hostname	The hostname of non-default vdc's will be <default vdc name>-<nondefault vdc name>

Command Mode

- /exec/configure

vdc_id

[no] vdc_id <id>

Syntax Description

no	Negate a command or set its defaults
vdc_id	Manage Virtual Device Context
id	Enter Virtual Device Context <vdc-id>

Command Mode

- /exec/configure

vdc resource template

[no] vdc resource template { <name> | <res-mgr-template-known-name> }

Syntax Description

no	(Optional) Negate a command or set its defaults
vdc	Manage Virtual Device Context
resource	Configure resource template
template	Configure resource template
<i>name</i>	Resource template name
<i>res-mgr-template-known-name</i>	Resource template name

Command Mode

- /exec/configure

vdc suspend

vdc <en-vdc> suspend

Syntax Description

vdc	Manage Virtual Device Context
<i>en-vdc</i>	Enter Virtual Device Context <vdc-id>
suspend	Put the vdc in a paused state. When resumed vdc will come up with its startup config

Command Mode

- /exec/configure

vdc suspend

[no] vdc <en-vdc> suspend

Syntax Description

vdc	Manage Virtual Device Context
<i>en-vdc</i>	Enter Virtual Device Context <vdc-id>
suspend	Put the vdc in a paused stated. When resumed vdc will use its startup config

Command Mode

- /exec/configure

vdp dot1q default static

```
{ vdp dot1q default { static <profile-name> | dynamic } } | { no vdp dot1q default }
```

Syntax Description

no	Negate a command or set its defaults
vdp	VDP protocol triggers
static	Static Profile Map: Configure profile name via CLI
<i>profile-name</i>	Static Profile Map: Configure profile name via CLI
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
dot1q	Dot1Q Encapsulation
default	Default (wildcard). Match any dot1q when there is no specific dot1q mapping configured

Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

vdp dot1q static

```
{ vdp dot1q <vlan-id> { static <profile-name> | dynamic } } | { no vdp dot1q <vlan-id> }
```

Syntax Description

no	Negate a command or set its defaults
vdp	VDP protocol triggers
static	Static Profile Map: Configure profile name via CLI
<i>profile-name</i>	Static Profile Map: Configure profile name via CLI
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
dot1q	Dot1Q Encapsulation
<i>vlan-id</i>	

Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

vdp vni default static

```
{ vdp vni default { static <profile-name> | dynamic } } | { no vdp vni default }
```

Syntax Description

no	Negate a command or set its defaults
vdp	VDP protocol triggers
vni	Virtual Network Identifier
static	Static Profile Map: Configure profile name via CLI
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
<i>profile-name</i>	Static Profile Map: Configure profile name via CLI
default	Default (wildcard). Match any vni when there is no specific vni mapping configured

Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

vdp vni static

{ vdp vni <vni-id> { static <profile-name> | dynamic } } | { no vdp vni <vni-id> }

Syntax Description

no	Negate a command or set its defaults
vdp	VDP protocol triggers
vni	Virtual Network Identifier
<i>vni-id</i>	
static	Static Profile Map: Configure profile name via CLI
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
<i>profile-name</i>	Static Profile Map: Configure profile name via CLI

Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

vendor controller interop

[no] vendor controller interop

Syntax Description

no	(Optional) Negate a command or set its defaults
vendor	vendor
controller	controller
interop	interop

Command Mode

- /exec/configure

verify-data

{ { no | default } verify-data | verify-data }

Syntax Description

no	
default	Set a command to its defaults
verify-data	Verify data

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/icmpEcho

verify-host

{ verify-host | no verify-host }

Syntax Description

no	Negate a command or set its defaults
verify-host	Verify host reachability - payload info mandatory

Command Mode

- /exec/configure/configngoamconnectcheck

verify

verify

Syntax Description

verify	Verify the current configuration session
--------	--

Command Mode

- /exec/configure

verify profile

verify profile <all_conf_profile_name> [__readonly__ TABLE_profile_name <missing_param>]

Syntax Description

verify	Verify the instance with a configuration profile
profile	Name of the configuration profile
<i>all_conf_profile_name</i>	Enter the name of configuration profile
<i>__readonly__</i>	(Optional)
<i>TABLE_profile_name</i>	(Optional)
<i>missing_param</i>	(Optional)

Command Mode

- /exec/configure/param-inst

verify verbose

verify verbose

Syntax Description

verify	Verify the current configuration session
verbose	Verify the current configuration session with more details

Command Mode

- /exec/configure

version

[no] version <s0>

Syntax Description

no	(Optional) Negate a command or set its defaults
version	Version info
s0	Version

Command Mode

- /exec/configure

version 9

version 9

Syntax Description

version	Specify the export version
9	Version 9 Export

Command Mode

- /exec/configure/nfm-exporter

virtual-service

[no] virtual-service

Syntax Description

no	(Optional) Negate a command or set its defaults
virtual-service	Virtual service global settings

Command Mode

- /exec/configure

virtual-service

[no] virtual-service <virt_serv_name>

Syntax Description

no	(Optional) Negate a command or set its defaults
virtual-service	Configure a virtual service
<i>virt_serv_name</i>	Virtual service name

Command Mode

- /exec/configure

virtual-service

```
virtual-service { { install name <virt_serv_name> package <file_uri> [ media <target_media> ] } | { upgrade
name <virt_serv_name> package <file_uri> } | { uninstall name <virt_serv_name> } }
```

Syntax Description

virtual-service	Virtualization manager actions
install	Add a virtual service to install database
upgrade	Upgrade a virtual service package to a different version
name	Name of the virtual service
<i>virt_serv_name</i>	Virtual service name
package	Package location
<i>file_uri</i>	File name (with .ova extension) for the virtual service
media	(Optional) Target media to use to explode the virtual service package
<i>target_media</i>	(Optional) Target media
uninstall	Remove a virtual service from the install database

Command Mode

- /exec

virtual-service connect name console

virtual-service connect name <virt_serv_name> { console | aux }

Syntax Description

virtual-service	Virtualization service actions
connect	Request a virtual service shell
name	Name of the virtual service
<i>virt_serv_name</i>	Name of existing virtual service
console	Request a virtual service console shell
aux	Request a virtual service auxiliary console shell

Command Mode

- /exec

virtual-service move name log to

virtual-service move name <virt_serv_name> { log | core } to <dir_uri>

Syntax Description

virtual-service	Virtualization service actions
move	Move a virtual service log or core files
name	Name of the virtual service
<i>virt_serv_name</i>	Name of existing virtual service
log	Move log files
core	Move core files
to	Destination directory to move log or core files to
<i>dir_uri</i>	Destination directory name

Command Mode

- /exec

virtual-service reset force

virtual-service reset force

Syntax Description

virtual-service	Virtualization service actions
reset	Virtualization reset commands
force	Force a non-recoverable reset of all virtualization files

Command Mode

- /exec

virtual IPv6

```
[no] virtual IPv6 { <ip-addr> { <prefix> | <netmask> } } [ ip | { { udp | tcp } { <port_num> | any } } ] [ {
advertise } { enable | disable } [ active ] [ device-group <dgrp_name> ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
virtual	ITD virtual ip configuration
IPv6	ITD virtual IPv6
<i>prefix</i>	IPv6 prefix length
ip	(Optional) IP Protocol
udp	(Optional) UDP Protocol
tcp	(Optional) TCP Protocol
<i>port_num</i>	(Optional) Port Number
any	(Optional) Any Port Number
advertise	(Optional) advertise
enable	(Optional) Enable
disable	(Optional) Disable
active	(Optional) Advertise route on at least one node active
device-group	(Optional) device-group
<i>dgrp_name</i>	(Optional) VIP device-group name

Command Mode

- /exec/configure/itd

virtual IPv6

```
[no] virtual IPv6 { <ip-addr> { <prefix> | <netmask> } } [ ip | { { udp | tcp } { <port_num> | any } } ] [ { arp | advertise } { enable | disable } ] [ device-group <group-name> ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
virtual	Configure Virtual IP of server nodes for redirection
IPv6	IPv6 address
<i>prefix</i>	IPV6 prefix length
ip	(Optional) IP address
udp	(Optional) UDP port
tcp	(Optional) TCP port
<i>port_num</i>	(Optional) Port Number
any	(Optional) Any Port Number
arp	(Optional) ARP
advertise	(Optional) advertise
enable	(Optional) Enable
disable	(Optional) Disable
device-group	(Optional) Specify device group mapped to VIP
<i>group-name</i>	(Optional) Device-group name mapped to VIP

Command Mode

- /exec/configure/plb

virtual ip

```
[no] virtual ip { <ip-addr> <ip-mask> } [ ip | { { udp | tcp } { <port_num> | any } } ] [ { advertise } { enable | disable } [ active ] ] [ device-group <dgrp_name> ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
virtual	ITD virtual ip configuration
ip	ITD virtual ip
<i>ip-addr</i>	IP address in format i.i.i.i
<i>ip-mask</i>	IP network mask in format m.m.m.m
ip	(Optional) IP Protocol
udp	(Optional) UDP Protocol
tcp	(Optional) TCP Protocol
<i>port_num</i>	(Optional) Port Number
any	(Optional) Any Port Number
advertise	(Optional) advertise
enable	(Optional) Enable
disable	(Optional) Disable
active	(Optional) Advertise route on at least one node active
device-group	(Optional) device-group
<i>dgrp_name</i>	(Optional) VIP device-group name

Command Mode

- /exec/configure/itd

virtual ip

```
[no] virtual ip { <ip-addr> <ip-mask> } [ ip | { { udp | tcp } { <port_num> | any } } ] [ { arp | advertise } { enable | disable } ] [ device-group <group-name> ]
```

Syntax Description

no	(Optional) Negate a command or set its defaults
virtual	Configure Virtual IP of server nodes for redirection
ip	IPv4 address
<i>ip-addr</i>	IPv4 prefix in format i.i.i.i
<i>ip-mask</i>	IPv4 prefix mask in format m.m.m.m
ip	(Optional) IPv4 address
udp	(Optional) UDP port
tcp	(Optional) TCP port
<i>port_num</i>	(Optional) Port Number
any	(Optional) Any Port Number
arp	(Optional) ARP
advertise	(Optional) advertise
enable	(Optional) Enable
disable	(Optional) Disable
device-group	(Optional) Specify device group mapped to VIP
<i>group-name</i>	(Optional) Device-group name mapped to VIP

Command Mode

- /exec/configure/plb

vlan-consistency-check

[no] vlan-consistency-check

Syntax Description

no	(Optional) Negate a command or set its defaults
vlan-consistency-check	enable vlan consistency check

Command Mode

- /exec/configure/evpn-esi-mh

vlan

[no] vlan <vlan-range>

Syntax Description

no	(Optional) Negate a command or set its defaults
vlan	add vlan to vlan group
<i>vlan-range</i>	range of vlans

Command Mode

- /exec/configure/itd-vlan-grp

vlan

vlan <vlans> | no vlan

Syntax Description

no	Negate a command or set its defaults
vlan	Set allowed fabricpath VLANs for a given anycast bundle
<i>vlans</i>	VLAN IDs of the allowed fabricpath VLANs in the anycast bundle

Command Mode

- /exec/configure/anycast

vlan

[no] vlan <vlan-range>

Syntax Description

no	(Optional) Negate a command or set its defaults
vlan	vlan
<i>vlan-range</i>	range of vlans

Command Mode

- /exec/configure/smarte /exec/configure/smarte

vlan access-map

[no] vlan access-map <name> [<seqno>]

Syntax Description

no	(Optional) Negate a command or set its defaults
vlan	Vlan commands
<i>name</i>	List name
access-map	Configure a VLAN access map
<i>seqno</i>	(Optional) Sequence number

Command Mode

- /exec/configure

vlan designated priority

{ vlan <vlan-id> | bridge-domain <bd-id> } designated priority <prio> | no { vlan <vlan-id> | bridge-domain <bd-id> } designated priority [<prio>]

Syntax Description

no	Negate a command or set its defaults
vlan	VLAN Switch Spanning Trees
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
designated	Set the designated bridge priority for the spanning tree
priority	Set the bridge priority for the spanning tree
<i>prio</i>	bridge priority in increments of 4096

Command Mode

- /exec/configure/spanning-tree/pseudo

vlan filter vlan

[no] vlan filter <name> { vlan-list <vlans> | vlan-list-include-reserved <vlans-include-reserved> }

Syntax Description

no	(Optional) Negate a command or set its defaults
vlan	Vlan commands
filter	Specify access control for packets
<i>name</i>	List name
vlan-list	Specify list of VLANs to apply access control
<i>vlans</i>	List of VLANs
vlan-list-include-reserved	Specify list of VLANs to apply access control
<i>vlans-include-reserved</i>	List of VLANs

Command Mode

- /exec/configure

vlan root priority

```
{ vlan <vlan-id> | bridge-domain <bd-id> } root priority <prio> | no { vlan <vlan-id> | bridge-domain <bd-id> } root priority [ <prio> ]
```

Syntax Description

no	Negate a command or set its defaults
vlan	VLAN Switch Spanning Trees
bridge-domain	Bridge-Domain Switch Spanning Trees
<i>vlan-id</i>	vlan range, Example: 1,3-5,7,9-11
<i>bd-id</i>	Bridge-Domain range, Example: 2,4-5,7,9-11
root	Set the root bridge priority for the spanning tree
priority	Set the bridge priority for the spanning tree
<i>prio</i>	bridge priority in increments of 4096

Command Mode

- /exec/configure/spanning-tree/pseudo

vmtracker connection

[no] vmtracker connection <connection-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
vmtracker	Configure vmtracker parameters
connection	Specify a host to connect
<i>connection-name</i>	VM host name

Command Mode

- /exec/configure

vmtracker connection refresh

[no] vmtracker connection <connection-name> refresh

Syntax Description

no	(Optional) Negate a command or set its defaults
vmtracker	Configure vmtracker parameters
connection	Specify a host to connect
<i>connection-name</i>	VM host name
refresh	Refresh all host related information

Command Mode

- /exec/configure

vmtracker enable

[no] vmtracker enable

Syntax Description

no	(Optional) Negate a command or set its defaults
vmtracker	Configure vmtracker feature
enable	Enable vmtracker feature on interface

Command Mode

- /exec/configure/if-switching

vmtracker fabric auto-config

[no] vmtracker fabric auto-config

Syntax Description

no	(Optional) Negate a command or set its defaults
vmtracker	Configure vmtracker parameters
fabric	Enable VM Tracker Fabric paramters
auto-config	Enable VM Tracker Fabric AutoConfiguration

Command Mode

- /exec/configure

vmtracker set device-id

[no] vmtracker set device-id <dev-id>

Syntax Description

no	(Optional) Negate a command or set its defaults
vmtracker	Configure vmtracker parameters
set	Set vmtracker options
device-id	Set the device-id
<i>dev-id</i>	Device id

Command Mode

- /exec/configure

vn-segment

vn-segment { <segment-id> | <zero-segment-id> } | no vn-segment

Syntax Description

no	Negate a command or set its defaults
vn-segment	VN Segment id of the VLAN
<i>segment-id</i>	segment-id
<i>zero-segment-id</i>	segment-id

Command Mode

- /exec/configure/vlan

vni

{ vni <vni-id> | no vni }

Syntax Description

no	Negate a command or set its defaults
vni	Vni
<i>vni-id</i>	Configure vni id

Command Mode

- /exec/configure/configngoamconnectcheck

vni

[no] vni <vni-id-sh>

Syntax Description

no	(Optional) Negate a command or set its defaults
vni	Configure a vni-based static host
<i>vni-id-sh</i>	

Command Mode

- /exec/configure/static-host

vni

{ vni <id> } | { no vni [<id>] }

Syntax Description

no	Negate a command or set its defaults
vni	Virtual Network Identifier
<i>id</i>	vni, Example: 4096,6099

Command Mode

- /exec/configure/vrf

vni default dynamic

{ vni default dynamic } | { no vni default }

Syntax Description

no	Negate a command or set its defaults
dynamic	Dynamic Profile Map: Retrieve profile name from the external server
vni	Virtual Network Identifier
default	Default (wildcard). Match any vni when there is no specific vni mapping configured

Command Mode

- /exec/configure/profile-map /exec/configure/profile-map-global

vni l2

[no] vni <vni_id> l2

Syntax Description

no	(Optional) Negate a command or set its defaults
vni	Configure Ethernet VPN ID
<i>vni_id</i>	Specify VNI ID
l2	Layer-2 VNI

Command Mode

- /exec/configure/evpn

vpc

vpc [<vpc_num>] | no vpc [<vpc_num>]

Syntax Description

no	Negate a command or set its defaults
vpc	Virtual Port Channel configuration
<i>vpc_num</i>	(Optional) specify a Virtual Port Channel number

Command Mode

- /exec/configure/if-eth-port-channel-switch

vpc domain

vpc domain <domain_id> | no vpc domain <domain_id>

Syntax Description

no	Negate a command or set its defaults
vpc	Virtual Port Channel configuration
domain	Specify domain
<i>domain_id</i>	domain id

Command Mode

- /exec/configure

vpc orphan-port suspend

[no] vpc orphan-port suspend

Syntax Description

no	(Optional) Negate a command or set its defaults
vpc	Virtual Port Channel configuration
orphan-port	orphan-port (non-vpc port)
suspend	suspend - when vPC secondary peerlink goes down

Command Mode

- /exec/configure/if-eth-phy /exec/configure/if-eth-port-channel-switch /exec/configure/if-eth-port-channel

vpc peer-link

vpc peer-link | no vpc peer-link

Syntax Description

no	Negate a command or set its defaults
vpc	Virtual Port Channel configuration
peer-link	specify if this link is used for peer communication

Command Mode

- /exec/configure/if-eth-port-channel-switch

vpc role preempt

vpc role preempt

Syntax Description

vpc	Virtual Port Channel configuration
role	vPC role related command
preempt	Enable/Trigger preemption of lower priority master

Command Mode

- /exec

vpc suspend

vpc suspend [<n-secs>]

Syntax Description

vpc	Virtual Port Channel configuration
suspend	Suspend the vPC on primary
<i>n-secs</i>	(Optional) Suspension duration in seconds

Command Mode

- /exec/configure/vpc-domain

vpc upgrade-done

vpc upgrade-done

Syntax Description

vpc	Virtual Port Channel configuration
upgrade-done	Unlock the cli and remove ISSU state

Command Mode

- /exec

vpn

[no] vpn <otv-isis-vpn-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
vpn	Configure IS-IS VPN name eg: Overlay<x>
<i>otv-isis-vpn-name</i>	Overlay name

Command Mode

- /exec/configure/otv-isis

vpn id

vpn id <vpn-id> | no vpn id [<vpn-id>]

Syntax Description

no	Negate a command or set its defaults
vpn	Configure VPN ID in rfc2685 format
id	Configure VPN ID in rfc2685 format
<i>vpn-id</i>	OUI:VPN-Index, format (hex) <3 bytes OUI:4 bytes VPN-Index>

Command Mode

- /exec/configure/vrf

vrf

[no] vrf <vrf-cfg-name>

Syntax Description

<i>vrf-cfg-name</i>	VRF name
vrf	Virtual Router Context
no	(Optional) Negate a command or set its defaults

Command Mode

- /exec/configure/router-bgp/router-bgp-bmp-server

vrf

[no] vrf <vrf-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	Virtual Router Context
<i>vrf-name</i>	VRF name

Command Mode

- /exec/configure/router-bgp

vrf

[no] vrf <vrf-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	Display per-VRF information
<i>vrf-name</i>	VRF name

Command Mode

- /exec/configure/router-ospf

vrf

{ { no | default } vrf |

Syntax Description

no	
default	Set a command to its defaults
vrf	Configure IP SLAs for a VPN Routing/Forwarding instance

Command Mode

- /exec/configure/ip-sla/udp /exec/configure/ip-sla/jitter /exec/configure/ip-sla/tcp /exec/configure/ip-sla/icmpEcho /exec/configure/ip-sla/dns /exec/configure/ip-sla/http

vrf

```
{ { vrf { <vrf-name> | <vrf-known-name> } } | no vrf }
```

Syntax Description

no	Negate a command or set its defaults
vrf	Display per-VRF information
<i>vrf-name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name

Command Mode

- /exec/configure/configngoamconnectcheck

vrf

[no] vrf <vrf-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	Configure VRF information
<i>vrf-name</i>	VRF name

Command Mode

- /exec/configure/router-eigrp

vrf

{ vrf <name> } | { no vrf <name> }

Syntax Description

no	Negate a command or set its defaults
vrf	ITD service vrf
<i>name</i>	ITD Service VRF name

Command Mode

- /exec/configure/itd

vrf

[no] vrf <vrf-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	Configure ISIS VRF information
<i>vrf-name</i>	VRF name

Command Mode

- /exec/configure/router-isis

vrf

[no] vrf <vrf-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	Configure RIP VRF information
<i>vrf-name</i>	VRF name

Command Mode

- /exec/configure/router-rip

vrf

[no] vrf <vrf-name>

Syntax Description

no	(Optional) Negate a command or set its defaults
vrf	Display per-VRF information
<i>vrf-name</i>	VRF name

Command Mode

- /exec/configure/router-ospf3

vrf

{ vrf <name> } | { no vrf <name> }

Syntax Description

no	Negate a command or set its defaults
vrf	Configure vrf for PLB service
<i>name</i>	VRF name

Command Mode

- /exec/configure/plb

vrf context

vrf context <vrf-name> | no vrf context { <vrf-name> | <vrf-name> }

Syntax Description

no	Negate a command or set its defaults
vrf	Configure VRF parameters
context	Create VRF and enter VRF mode
<i>vrf-name</i>	VRF name
<i>vrf-name</i>	VRF name
<i>vrf-name</i>	VRF name

Command Mode

- /exec/configure

vrf default static

```
{ vrf default { static <profile-name> | dynamic } } | { no vrf default }
```

Syntax Description

no	Negate a command or set its defaults
vrf	VRF name
default	Default (wildcard). Match any vrf when there is no specific vrf mapping configured
static	Static Profile Map: Configure profile name via CLI
<i>profile-name</i>	Static Profile Map: Configure profile name via CLI
dynamic	Dynamic Profile Map: Retrieve profile name from the external server

Command Mode

- /exec/configure/profile-map-global

vrf member

vrf member { <vrf_name> | <vrf-known-name> } | no vrf member [<vrf_name> | <vrf-known-name>]

Syntax Description

no	Negate a command or set its defaults
vrf	Configure VPN Routing/Forwarding table
member	Set route's VRF membership
<i>vrf_name</i>	VRF name
<i>vrf-known-name</i>	Known VRF name

Command Mode

- /exec/configure/track

vrf member

vrf member <vrf-name> | no vrf member [<vrf-name>]

Syntax Description

no	Negate a command or set its defaults
vrf	Configure VRF parameters
member	Set interface's VRF membership
<i>vrf-name</i>	VRF name

Command Mode

- /exec/configure/if-igp /exec/configure/if-mgmt-ether

vrf static

{ vrf <vrf-name> { static <profile-name> | dynamic } } | { no vrf <vrf-name> }

Syntax Description

no	Negate a command or set its defaults
vrf	VRF name
<i>vrf-name</i>	VRF name
static	Static Profile Map: Configure profile name via CLI
<i>profile-name</i>	Static Profile Map: Configure profile name via CLI
dynamic	Dynamic Profile Map: Retrieve profile name from the external server

Command Mode

- /exec/configure/profile-map-global

vrrp

[no] vrrp <vr_id>

Syntax Description

no	(Optional) Negate a command or set its defaults
vrrp	VRRP configuration commands
<i>vr_id</i>	IPv4 VR group number

Command Mode

- /exec/configure/if-legacy-eth /exec/configure/if-ethernet /exec/configure/if-port-channel /exec/configure/if-vlan-common /exec/configure/if-eth-any

vrrp bfd

```
{ vrrp bfd <peer_intf_ip> | no vrrp bfd [ <peer_intf_ip> ] }
```

Syntax Description

vrrp	VRRP configuration commands
bfd	BFD protocol
<i>peer_intf_ip</i>	Neighbor IP address
no	Negate a command or set its defaults

Command Mode

- /exec/configure/if-eth-any/vrrp

vrrpv2

[no] vrrpv2

Syntax Description

no	(Optional) Negate a command or set its defaults
vrrpv2	Enable VRRPv2 compatibility mode

Command Mode

- /exec/configure/if-eth-any/vrrpv3

vrrpv3

[no] vrrpv3

Syntax Description

no	(Optional) Negate a command or set its defaults
vrrpv3	VRRPv3 configuration commands

Command Mode

- /exec/configure

vrrpv3 address-family

[no] vrrpv3 <group_id> address-family <opt_v4>

Syntax Description

no	(Optional) Negate a command or set its defaults
vrrpv3	Configure VRRPv3 group parameters
address-family	IPV4 address family
<i>opt_v4</i>	Enter ipv4
<i>group_id</i>	VRRP Group ID

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan

vrrpv3 address-family

[no] vrrpv3 <group_id> address-family <opt_v6>

Syntax Description

no	(Optional) Negate a command or set its defaults
vrrpv3	Configure VRRPv3 group parameters
address-family	IPV6 address family
<i>opt_v6</i>	Enter ipv6
<i>group_id</i>	VRRP Group ID

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan

vrrs leader

[no] vrrs leader <tag>

Syntax Description

no	(Optional) Negate a command or set its defaults
vrrs	VRRS-related commands
leader	Name of VRRS tag for which this group is the leader
<i>tag</i>	VRRS tag to lead

Command Mode

- /exec/configure/if-eth-any/vrrpv3

vrrs pathway

[no] vrrs pathway <name>

Syntax Description

no	(Optional) Negate a command or set its defaults
vrrs	VRRS Interface configuration commands
pathway	Configure a VRRS pathway
<i>name</i>	Name of the VRRS tag to associate with pathway

Command Mode

- /exec/configure/if-eth-any /exec/configure/if-vlan

vsh

| vsh

Syntax Description

	Pipe command output to filter
vsh	the shell that understands cli command

Command Mode

- /output



W Commands

- [wait-igp-convergence](#), on page 4578
- [watch](#), on page 4579
- [watch service action apply-acl](#), on page 4580
- [wc](#), on page 4581
- [wedge bmc ip-addr](#), on page 4582
- [weight](#), on page 4583
- [weight](#), on page 4584
- [weight](#), on page 4585
- [weight](#), on page 4586
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- [where](#), on page 4588
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- [wide-metric-only](#), on page 4591
- [window-size](#), on page 4592
- [wred-queue qos-group-map queue-only](#), on page 4593
- [write erase](#), on page 4594
- [write erase boot](#), on page 4595
- [write erase debug](#), on page 4596
- [wrr-queue qos-group-map](#), on page 4597
- [wrr unicast-bandwidth](#), on page 4598

wait-igp-convergence

[no] wait-igp-convergence

Syntax Description

no	(Optional) Negate a command or set its defaults
wait-igp-convergence	Delay initial bestpath until redistributed IGP's have converged

Command Mode

- /exec/configure/router-bgp/router-bgp-af-ipv4 /exec/configure/router-bgp/router-bgp-vrf-af-ipv4
/exec/configure/router-bgp/router-bgp-af-ipv6 /exec/configure/router-bgp/router-bgp-vrf-af-ipv6

watch

```
watch [ differences ] [ interval <time> ] <watch_cmd>
```

Syntax Description

<code>watch</code>	execute a program periodically
<code>differences</code>	(Optional) highlight the differences
<code>interval</code>	(Optional) watch interval
<code>time</code>	(Optional) interval in seconds
<code>watch_cmd</code>	enter the command you want to watch

Command Mode

- /exec

watch service action apply-acl

[no] watch service <service-name> action apply-acl <acl-name> | no watch service

Syntax Description

no	(Optional) Negate a command or set its defaults
watch	Watch a pod/service
service	The pod or service to watch
<i>service-name</i>	Name of the service/pod to watch
action	Action to be applied
apply-acl	Change ACL config
<i>acl-name</i>	Name of the acl to apply

Command Mode

- /exec/configure/kubernetes

WC

| wc [-c | -l | -w]

Syntax Description

	Pipe command output to filter
wc	Count words, lines, characters
-c	(Optional) Output character count
-l	(Optional) Output line count
-w	(Optional) Output word count

Command Mode

- /output

wedge bmc ip-addr

[no] wedge bmc ip-addr <ip>

Syntax Description

no	(Optional) Negate a command or set its defaults
wedge	Configure wedge Board Management controller ip address
bmc	Board Management Controller ip address
ip-addr	BMC ip address
<i>ip</i>	ip address

Command Mode

- /exec/configure

weight

```
{ weight <weight> } | { { no | default } weight [ <weight> ] }
```

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
weight	Set default weight for routes from this neighbor
<i>weight</i>	Default weight

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv4
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-vpnv6
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-label
- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv6-label

weight

```
{ weight <weight> } | { { no | default } weight [ <weight> ] }
```

Syntax Description

no	Negate a command or set its defaults
default	Inherit values from a peer template
weight	Set default weight for routes from this neighbor
<i>weight</i>	Default weight

Command Mode

- /exec/configure/router-bgp/router-bgp-neighbor/router-bgp-neighbor-af-ipv4-mdt

weight

[no] weight <weight-value>

Syntax Description

no	(Optional) Negate a command or set its defaults
weight	weight for traffic distribution
<i>weight-value</i>	weight value

Command Mode

- /exec/configure/itd-dg-node

weight

weight <weight-value> | no weight

Syntax Description

no	Negate a command or set its defaults
weight	Configure weight of node for traffic distribution
<i>weight-value</i>	weight value

Command Mode

- /exec/configure/plb-dg-node

weighting

```
weighting { <weight-max-val> [ lower <low-thresh> [ upper <upper-thresh> ] | upper <upper-thresh> ] | track
<track-obj> [ decrement <dec-val> ] } | no weighting [ { <weight-max-val> [ lower <low-thresh> [ upper
<upper-thresh> ] | upper <upper-thresh> ] | track <track-obj> [ decrement <dec-val> ] } ]
```

Syntax Description

no	Negate a command or set its defaults
weighting	Gateway weighting and tracking
<i>weight-max-val</i>	Weighting maximum value
lower	(Optional) Weighting lower threshold
<i>low-thresh</i>	(Optional) Weighting lower threshold value
upper	(Optional) Weighting upper threshold
<i>upper-thresh</i>	(Optional) Weighting upper threshold value
track	Interface tracking
<i>track-obj</i>	Tracked object
decrement	(Optional) Weighting decrement
<i>dec-val</i>	(Optional) Decrement value 1 255

Command Mode

- /exec/configure/if-eth-any/glbp

where

where

Syntax Description

where	shows the cli context you are in
-------	----------------------------------

Command Mode

- /global

where detail

where detail

Syntax Description

where	shows the cli context you are in
detail	shows each entry on separate line

Command Mode

- /global

which

which

Syntax Description

which	shows which cli commands are available in current mode (see also 'show cli syntax' which has more options)
-------	--

Command Mode

- /global

wide-metric-only

[no] wide-metric-only

Syntax Description

no	(Optional) Negate a command or set its defaults
wide-metric-only	Advertise only wide metric

Command Mode

- /exec/configure/router-isis/router-isis-vrf-common

window-size

[no] window-size <size>

Syntax Description

window-size	Configure Window size
<i>size</i>	window size value

Command Mode

- /exec/configure/masec-policy

wred-queue qos-group-map queue-only

[no] wred-queue qos-group-map queue-only { <qid> }

Syntax Description

no	(Optional) Negate the command
wred-queue	Enable queue based ECN marking for specific qos-group
queue-only	Enable queue based ECN marking
qos-group-map	Qid value
<i>qid</i>	Provide qos-group value

Command Mode

- /exec/configure

write erase

write erase

Syntax Description

write	Write current configuration
erase	Destroys the configuration on persistent media

Command Mode

- /exec

Usage Guidelines

You can erase the configuration on your device to return to the configuration defaults. In this context, **configuration** refers to the startup configuration as displayed by the **show startup** command. No other internal application or process states are cleared. To remove all application persistency files such as patch rpms, third party rpms, and application configuration in the /etc directory other than configuration, use the **install reset** command.

write erase boot

write erase boot

Syntax Description

write	Write current configuration
erase	Destroys the configuration on persistent media
boot	Destroys boot configuration on persistent media

Command Mode

- /exec

write erase debug

write erase debug

Syntax Description

write	Write current configuration
erase	Destroys the configuration on persistent media
debug	Destroys debug configuration on persistent media

Command Mode

- /exec

wrr-queue qos-group-map

[no] wrr-queue qos-group-map <qid> { <cos> } +

Syntax Description

no	(Optional) Negate the command
wrr-queue	Map traffic priority (QG) values to L3 Multicast Queues
qos-group-map	Qid value
<i>qid</i>	Provide qid value
<i>cos</i>	Provide qos-group-map value

Command Mode

- /exec/configure

wrr unicast-bandwidth

[no] wrr unicast-bandwidth <bw>

Syntax Description

no	(Optional) Negate the command
wrr	Configure Unicast Traffic Bandwidth Percentage
unicast-bandwidth	Specify rate as percentage of interface data-rate
<i>bw</i>	Value in percentage (Default is set to 50)

Command Mode

- /exec/configure



X Commands

- [xml](#), on page 4600
- [xml](#), on page 4601
- [xml server max-session](#), on page 4602
- [xml server terminate session](#), on page 4603
- [xml server timeout](#), on page 4604
- [xml server validate](#), on page 4605
- [xml server xml-debug](#), on page 4606
- [xmlin](#), on page 4607
- [xmlin](#), on page 4608
- [xmlin](#), on page 4609
- [xmlin](#), on page 4610
- [xmlout](#), on page 4611

xml

| xml

Syntax Description

	Pipe command output to filter
xml	output in xml format (according to .xsd definitions)

Command Mode

- /output

xml

| xml

Syntax Description

	Pipe command output to filter
xml	output in xml format (according to .xsd definitions)

Command Mode

- /output

xml server max-session

[no] xml server max-session <number>

Syntax Description

no	(Optional) Negate a command or set its defaults
xml	xml agent
server	xml agent server
max-session	configure maximum number of xml sessions allowed
<i>number</i>	number of the sessions

Command Mode

- /exec/configure

xml server terminate session

xml server terminate session <session_id>

Syntax Description

xml	xml agent
server	xml agent server
terminate	command to terminate an XML session
session	terminate an XML session
<i>session_id</i>	sessions number

Command Mode

- /exec

xml server timeout

[no] xml server timeout <value> [<session_id>]

Syntax Description

no	(Optional) Negate a command or set its defaults
xml	xml agent
server	xml agent server
timeout	configure xml agent session timeout
<i>value</i>	timeout in seconds
<i>session_id</i>	(Optional) xml agent session id

Command Mode

- /exec/configure

xml server validate

[no] xml server validate { all | <session_id> }

Syntax Description

no	(Optional) Negate a command or set its defaults
xml	xml agent
server	xml agent server
validate	command to validate an XML session
all	all sessions
<i>session_id</i>	session number

Command Mode

- /exec/configure

xml server xml-debug

[no] xml server xml-debug

Syntax Description

no	(Optional) Negate a command or set its defaults
xml	xml agent
server	xml server
xml-debug	xml server xml-debug

Command Mode

- /exec/configure

xmlin

xmlin

Syntax Description

xmlin	Convert CLI commands to their XML formats
-------	---

Command Mode

- /exec

xmlin

| xmlin

Syntax Description

	Pipe command output to filter
xmlin	Convert CLI show commands to their XML formats

Command Mode

- /output

xmlin

xmlin

Syntax Description

xmlin	Convert CLI commands to their XML formats
-------	---

Command Mode

- /exec

xmlin

| xmlin

Syntax Description

	Pipe command output to filter
xmlin	Convert CLI show commands to their XML formats

Command Mode

- /output

xmlout

| xmlout

Syntax Description

	Pipe command output to filter
xmlout	output in xml format (according to the latest .xsd version)

Command Mode

- /output



PART II

New, Changed, and Deprecated Commands

- [New, Changed, and Deprecated Configuration Commands in Cisco Nexus 9000 Release 7.0\(3\)I7\(2\), on page 4615](#)
- [New, Changed, and Deprecated Configuration Commands in Cisco Nexus 9000 Release 7.0\(3\)I7\(3\), on page 4625](#)
- [New, Changed, and Deprecated Configuration Commands in Cisco Nexus 9000 Release 7.0\(3\)I7\(4\), on page 4633](#)
- [New, Changed, and Deprecated Configuration Commands in Cisco Nexus 9000 Release 7.0\(3\)I7\(5\), on page 4639](#)
- [New, Changed, and Deprecated Configuration Commands in Cisco Nexus 9000 Release 7.0\(3\)I7\(6\), on page 4653](#)
- [New, Changed, and Deprecated Configuration Commands in Cisco Nexus 9000 Release 7.0\(3\)I7\(7\), on page 4659](#)



New, Changed, and Deprecated Configuration Commands in Cisco Nexus 9000 Release 7.0(3)I7(2)

- [New Commands, on page 4616](#)
- [Changed Commands, on page 4621](#)
- [Deprecated Commands, on page 4623](#)

New Commands

The following commands are added in this release.

- { platform | hardware } acl tap-agg
- burst-detect enable
- dest-ipaddr { <ip-address> | <hostname> }
- dest-port <port>
- destination group <group_number>
- destination-profile <s0> message-level <i0>
- destination-profile <s0> message-size <i0>
- destination-profile full-txt-destination message-level <i0>
- destination-profile full-txt-destination message-size <i0>
- destination-profile short-txt-destination message-level <i0>
- destination-profile short-txt-destination message-size <i0>
- hardware internal mtc-usd ttag-eth-type <ethtype> | no hardware internal mtc-usd ttag-eth-type
- hardware profile buffer qosgroup <groupid> threshold <percentage>
- hardware profile buffer span-threshold <percentage>
- hardware qos pfc mc-drop
- ip host <s0> [<ipv4_0>] | ip host <s0> <ipv4_0>
- ip igmp querier-elect strict
- ipv6 host <s0> [<ipv6_0>] | ipv6 host <s0> <ipv6_0>
- [no] logging level mtc-usd <level>
- logging rate-limit
- logging server dns-refresh-interval <i0>
- mac-address bpdu source version 2
- marker-packet-n3500 [<interval> | seconds <interval1> | milliseconds <interval2>]
- monitor session warp [type local]
- port <port-range> type { ethernet | fc }
- priority-flow-control watch-dog-interval { on [disable-action] [interface-multiplier <multiplier-val>] | off }
- ptp bad_correction <value>
- ptp correction-range <correction-range>

- { platform | hardware } qos { burst-detect rise-threshold <val> bytes fall-threshold <val> bytes }
- { platform | hardware } qos { oq-stats [{ q0 | q1 | q2 | q3 | q4 | q5 | q6 | q7 | q8 | q9 }] [{ counter0 | counter1 | counter2 | counter3 | counter4 | counter5 | counter6 | counter7 | counter8 | counter9 }] type { all | <sel1> [<sel2>] } [module <module>] }
- report [detail]
- [no | default] rewrite-rt-asn
- set drpvec { parse_err <parse_err> | outer_ids_g0 <outer_ids_g0> | outer_ids_g1 <outer_ids_g1> | outer_ids_g2 <outer_ids_g2> | outer_ids_g3 <outer_ids_g3> | outer_ids_g4 <outer_ids_g4> | outer_ids_g5 <outer_ids_g5> | outer_ids_g6 <outer_ids_g6> | outer_ids_g7 <outer_ids_g7> | outer_xlate_miss <outer_xlate_miss> | infra_encap_src_tep_miss <infra_encap_src_tep_miss> | infra_encap_type_mismatch <infra_encap_type_mismatch> | uc_tenant_mytep_route_miss <uc_tenant_mytep_route_miss> | uc_tenant_mytep_bridge_miss <uc_tenant_mytep_bridge_miss> | arp_nd_ucast_miss <arp_nd_ucast_miss> | mc_dvif_miss <mc_dvif_miss> | shard_override_vlan_xlate_miss <shard_override_vlan_xlate_miss> | fcf_check_failed <fcf_check_failed> | ttl_expired <ttl_expired> | security_group_deny <security_group_deny> | mc_iic <mc_iic> | mc_gipo_miss <mc_gipo_miss> | vif_miss <vif_miss> | missing_vntag <missing_vntag> | vlan_xlate_miss <vlan_xlate_miss> | ip_mtu_check_failure <ip_mtu_check_failure> | uc_rpf_failure <uc_rpf_failure> | mc_rpf_failure <mc_rpf_failure> | l3_binding_failure <l3_binding_failure> | nsh_not_allowed <nsh_not_allowed> | src_vlan_mbr <src_vlan_mbr> | nsh_src_sw_chk_failed <nsh_src_sw_chk_failed> | l2mp_iic_failed <l2mp_iic_failed> | l2mp_on_ce_bd <l2mp_on_ce_bd> | l2mp_encap_from_edge <l2mp_encap_from_edge> | l2mp_noencap_from_core <l2mp_noencap_from_core> | outer_ttl_expired <outer_ttl_expired> | incorrect_vntag_type <incorrect_vntag_type> | l2mp_ftag_comp_miss <l2mp_ftag_comp_miss> | ipv6_uc_link_local_cross_bd <ipv6_uc_link_local_cross_bd> | ipv6_mc_sa_local_da_global_svi <ipv6_mc_sa_local_da_global_svi> | ipv6_mc_sa_local_da_global_l3if <ipv6_mc_sa_local_da_global_l3if> | routing_disabled <routing_disabled> | fc_lookup_miss <fc_lookup_miss> | no_sgt_from_core <no_sgt_from_core> | ip_self_fwd_failure <ip_self_fwd_failure> | acl_drop <acl_drop> | smac_miss <smac_miss> | secure_mac_move <secure_mac_move> | non_secure_mac <non_secure_mac> | l2_binding_failure <l2_binding_failure> | inner_ids_g0 <inner_ids_g0> | inner_ids_g1 <inner_ids_g1> | inner_ids_g2 <inner_ids_g2> | inner_ids_g3 <inner_ids_g3> | inner_ids_g4 <inner_ids_g4> | inner_ids_g5 <inner_ids_g5> | inner_ids_g6 <inner_ids_g6> | inner_ids_g7 <inner_ids_g7> | infra_encap_src_tep_drop <infra_encap_src_tep_drop> | split_horizon_check <split_horizon_check> | mc_fib_miss <mc_fib_miss> | mc_l2_miss <mc_l2_miss> | uc_df_check_failure <uc_df_check_failure> | uc_pc_cfg_table_drop <uc_pc_cfg_table_drop> | illegal_expl_null <illegal_expl_null> | mpls_lookup_miss <mpls_lookup_miss> | outer_cbl_check <outer_cbl_check> | null_shard_with_e_bit_set <null_shard_with_e_bit_set> | lb_drop <lb_drop> | nat_fragment <nat_fragment> | illegal_dce_pkt <illegal_dce_pkt> | dci_vnid_xlate_miss <dci_vnid_xlate_miss> | dci_sclass_xlate_miss <dci_sclass_xlate_miss> | dci_2nd_uc_transit <dci_2nd_uc_transit> } +
- set ieth { sof <sof_val> | hdr_type <hdr_type> | ext_hd <ext_hd> | opcode <opcode> | src_idx <src_idx> | dst_idx <dst_idx> | src_chip <src_chip> | src_port <src_port> | dst_chip <dst_chip> | dst_port <dst_port> | outer_bd <outer_bd> | bd <bd> | traceroute <traceroute> | dont_lrn <dont_lrn> | span | alt_if_prof <alt_if_prof> | ttl_bypass <ttl_bypass> | src_is_tunl <src_is_tunl> | dst_is_tunl <dst_is_tunl> | l2_tunl <l2_tunl> | sup_tx <sup_tx> | sup_code <sup_code> | cos_de <cos_de> | tclass <tclass> | src_is_peer <src_is_peer> | pkt_hash <pkt_hash> } +
- set inner arp { target-ip-addr <tipaddr> | target-mac-addr <tmac> | source-ip-addr <sipaddr> | source-mac-addr <smac> | opcode <opcode_val> | prot-addr-len <prot_addr_len> | hw-addr-len <hw_addr_len> | protocol-type <prot_type> | hardware-type <hw_type> | ether-type <etype> | payload-len <pyld_len> } +

- set inner ipv4 { pyld-len <pyld_len> | version <ver> | header-len <hlen> | dscp <dscp_val> | ecn <ecn_val> | packet-len <pkt_len> | more-frags <mf> | fragment-off <fragoff> | ttl <ttl_val> | next-protocol <nproto> | checksum <csum> | src_ip <sip> | dst_ip <dip> } +
- set inner ipv6 { src_ip <sip> | dst_ip <dip> } +
- set inner l2 { snap_vld <snap_vld> | cntag_vld <cntag_vld> | qtag_vld <qtag_vld> | vlan <vlan_id> | cos <cos_val> | cfi <cfi_vld> | vntag_vld <vntag_vld> | vntag_svif <vntag_svif> | vntag_dvif <vntag_dvif> | vntag_looped <vntag_loop> | vntag_pointer <vntag_p> | src_mac <smac> | dst_mac <dmac> } +
- set inner l4 { l4-type <l4_type> | src-port <sport> | dst-port <dport> | packet-len <pkt_len> | checksum <csum> | flags <flag_val> | tn-nonce <tn_nonce> | tn-lsb <tn_lsb> | tn-nonce-info <tn_nonce_info> | tn-lsb-info <tn_lsb_info> | vnid <vnid_val> | nd-type <nd_type> | nd-code <nd_code> | nd-flags <nd_flags> | nd-ip <nd_ip> | nonce-lb <nonce_lb> | nonce-dl <nonce_dl> | nonce-e <nonce_e> | nonce-sp <nonce_sp> | nonce-dp <nonce_dp> | nonce-dre <nonce_dre> | sclass <sclass> | lsb-m <lsb_m> | lsb-lb-tag <lsb_lb_tag> | lsb-lb-metric <lsb_lb_metric> } +
- set outer arp { target-ip-addr <tipaddr> | target-mac-addr <tmac> | source-ip-addr <sipaddr> | source-mac-addr <smac> | opcode <opcode_val> | prot-addr-len <prot_addr_len> | hw-addr-len <hw_addr_len> | protocol-type <prot_type> | hardware-type <hw_type> | ether-type <etype> | payload-len <pyld_len> } +
- set outer fcoe { pyld-len <pyld_len> | ether-type <etype> | esof <esof> | r_ctl <r_ctl> | d_id <d_id> | cs_ctl <cs_ctl> | s_id <s_id> | fc_type <fc_type> | f_ctl <f_ctl> | df_ctl <df_ctl> | ox_id <ox_id> | rx_id <rx_id> | pyld0 <pyld0> | pyld1 <pyld1> | pyld2 <pyld2> | pyld3 <pyld3> | vft_vld <vft_vld> | vft_type <vft_type> | vft_prio <vft_prio> | vft_vfid <vft_vfid> | vft_hopct <vft_hopct> } +
- set outer ipv4 { pyld-len <pyld_len> | version <ver> | header-len <hlen> | dscp <dscp_val> | ecn <ecn_val> | packet-len <pkt_len> | more-frags <mf> | fragment-off <fragoff> | ttl <ttl_val> | next-protocol <nproto> | checksum <csum> | src_ip <sip> | dst_ip <dip> } +
- set outer ipv6 { src_ip <sip> | dst_ip <dip> } +
- set outer l2 { snap_vld <snap_vld> | cntag_vld <cntag_vld> | qtag_vld <qtag_vld> | vlan <vlan_id> | cos <cos_val> | cfi <cfi_vld> | vntag_vld <vntag_vld> | vntag_svif <vntag_svif> | vntag_dvif <vntag_dvif> | vntag_looped <vntag_loop> | vntag_pointer <vntag_p> | src_mac <smac> | dst_mac <dmac> } +
- set outer l4 { l4-type <l4_type> | src-port <sport> | dst-port <dport> | packet-len <pkt_len> | checksum <csum> | flags <flag_val> | tn-nonce <tn_nonce> | tn-lsb <tn_lsb> | tn-nonce-info <tn_nonce_info> | tn-lsb-info <tn_lsb_info> | vnid <vnid_val> | nd-type <nd_type> | nd-code <nd_code> | nd-flags <nd_flags> | nd-ip <nd_ip> | nonce-lb <nonce_lb> | nonce-dl <nonce_dl> | nonce-e <nonce_e> | nonce-sp <nonce_sp> | nonce-dp <nonce_dp> | nonce-dre <nonce_dre> | sclass <sclass> | lsb-m <lsb_m> | lsb-lb-tag <lsb_lb_tag> | lsb-lb-metric <lsb_lb_metric> } +
- set pktwrw { spare <spare> | cap_access <cap_access> | bounce <bounce> | dst_vnic_if <dst_vnic_if> | src_vnic_if <src_vnic_if> | pif_block_type <pif_block_type> | ep_g_out <epg_out> | ep_g_in <epg_in> | sup_qnum <sup_qnum> | sup_code <sup_code> | ecn_coi <ecn_coi> | ecn_cio <ecn_cio> | ttl_coi <ttl_coi> | ttl_cio <ttl_cio> | qos_map_idx <qos_map_idx> | lat_update <lat_update> | lat_index <lat_index> | dclass <dclass> | sclass <sclass> | ol_fb_metric <ol_fb_metric> | ol_fb_vpath <ol_fb_vpath> | ol_dre <ol_dre> | ol_vpath <ol_vpath> | ol_dp <ol_dp> | ol_sp <ol_sp> | ol_e <ol_e> | ol_dl <ol_dl> | ol_lb <ol_lb> | ol_mark <ol_mark> | ol_udp_sp <ol_udp_sp> | ol_ecn <ol_ecn> | nat_idx <nat_idx> | nat_vld <nat_vld> | dst_addr1 <dst_addr1> | dst_addr0 <dst_addr0> | adj_vld <adj_vld> | encap_l2_idx <encap_l2_idx> | encap_pcid <encap_pcid> | encap_idx <encap_idx> | encap_vld <encap_vld> | my_pcid <my_pcid> | my_tep_idx <my_tep_idx> | fwd_op <fwd_op> | orig_encap_type <orig_encap_type> | pkt_type <pkt_type> | len_type <len_type> | cap_1588 <cap_1588> | pktid <pktid> | srcid <srcid> | tstmp

- `<tstamp> | pktfmt1_inner <pktfmt1_inner> | pktfmt1_l3 <pktfmt1_l3> | pktfmt1_l3_type <pktfmt1_l3_type> | pktfmt1_mpls_null <pktfmt1_mpls_null> | pktfmt1_snap <pktfmt1_snap> | pktfmt1_cntag <pktfmt1_cntag> | pktfmt1_ttag <pktfmt1_ttag> | pktfmt1_cmd_dgt <pktfmt1_cmd_dgt> | pktfmt1_cmd_sgt <pktfmt1_cmd_sgt> | pktfmt1_cdce <pktfmt1_cdce> | pktfmt1_trill <pktfmt1_trill> | pktfmt1_qtag2 <pktfmt1_qtag2> | pktfmt1_qtag1 <pktfmt1_qtag1> | pktfmt1_qtag0 <pktfmt1_qtag0> | pktfmt1_ivntag <pktfmt1_ivntag> | pktfmt1_vntag <pktfmt1_vntag> | pktfmt1_ce <pktfmt1_ce> | pktfmt1_ieth <pktfmt1_ieth> | pktfmt1_higig2 <pktfmt1_higig2> | pktfmt0_inner <pktfmt0_inner> | pktfmt0_l3 <pktfmt0_l3> | pktfmt0_l3_type <pktfmt0_l3_type> | pktfmt0_mpls_null <pktfmt0_mpls_null> | pktfmt0_snap <pktfmt0_snap> | pktfmt0_cntag <pktfmt0_cntag> | pktfmt0_ttag <pktfmt0_ttag> | pktfmt0_cmd_dgt <pktfmt0_cmd_dgt> | pktfmt0_cmd_sgt <pktfmt0_cmd_sgt> | pktfmt0_cdce <pktfmt0_cdce> | pktfmt0_trill <pktfmt0_trill> | pktfmt0_qtag2 <pktfmt0_qtag2> | pktfmt0_qtag1 <pktfmt0_qtag1> | pktfmt0_qtag0 <pktfmt0_qtag0> | pktfmt0_ivntag <pktfmt0_ivntag> | pktfmt0_vntag <pktfmt0_vntag> | pktfmt0_ce <pktfmt0_ce> | pktfmt0_ieth <pktfmt0_ieth> | pktfmt0_higig2 <pktfmt0_higig2> } +`
- `• set sb_info { oslice_vec <oslice_vec> | srvc_oslice_vec <srvc_oslice_vec> | is_tcp <is_tcp> | srvc_class <srvc_class> | cpu_oclass <cpu_oclass> | set_v <set_v> | set_idx <set_idx> | set_last <set_last> | bd <bd> | src_is_l3_if <src_is_l3_if> | src_is_vpc_peer <src_is_vpc_peer> | is_my_tep <is_my_tep> | src_sh_group <src_sh_group> | ftag <ftag> | rpf_fail <rpf_fail> | post_route_flood <post_route_flood> | pkt_hash <pkt_hash> | bpdu <bpdu> | met0_v <met0_v> | met0_idx <met0_idx> | met0_last <met0_last> | met1_v <met1_v> | met1_idx <met1_idx> | met1_last <met1_last> | ip_clen <ip_clen> | ip_clen <ip_clen> | sod_cap <sod_cap> | sod_en <sod_en> } +`
 - `• set sideband { cpu_oport <cpu_oport> | span_idx <span_idx> | ovector_idx <ovector_idx> | iclass <iclass> | oclass <oclass> | opcode <opcode> | encapable <encapable> | nodrop <nodrop> | storefwd <storefwd> | spantransit <spantransit> | rr <rr> | ecnmark <ecnmark> | gbw_tagged <gbw_tagged> | gbw_color <gbw_color> | bnce <bnce> | spanslc <spanslc> | segregate <segregate> | mark <mark> } +`
 - `• set stats { vld0 <vld0> | atomic0 <atomic0> | mode0 <mode0> | index0 <index0> | vld1 <vld1> | atomic1 <atomic1> | mode1 <mode1> | index1 <index1> | vld2 <vld2> | atomic2 <atomic2> | mode2 <mode2> | index2 <index2> | vld3 <vld3> | atomic3 <atomic3> | mode3 <mode3> | index3 <index3> | vld4 <vld4> | atomic4 <atomic4> | mode4 <mode4> | index4 <index4> | vld5 <vld5> | atomic5 <atomic5> | mode5 <mode5> | index5 <index5> | vld6 <vld6> | atomic6 <atomic6> | mode6 <mode6> | index6 <index6> | vld7 <vld7> | atomic7 <atomic7> | mode7 <mode7> | index7 <index7> } +`
 - `• set { outer | inner } arp { target-ip-addr <tipaddr> | target-mac-addr <tmac> | source-ip-addr <sipaddr> | source-mac-addr <smac> | opcode <opcode_val> | prot-addr-len <prot_addr_len> | hw-addr-len <hw_addr_len> | protocol-type <prot_type> | hardware-type <hw_type> | ether-type <etype> | payload-len <pyld_len> } +`
 - `• set { outer | inner } ipv4 { pyld-len <pyld_len> | version <ver> | header-len <hlen> | dscp <dscp_val> | ecn <ecn_val> | packet-len <pkt_len> | more-frags <mf> | fragment-off <fragoff> | ttl <ttl_val> | next-protocol <nproto> | checksum <csum> | src_ip <sip> | dst_ip <dip> } +`
 - `• set { outer | inner } ipv6 { src_ip <sip> | dst_ip <dip> } +`
 - `• set { outer | inner } l2 { snap_vld <snap_vld> | cntag_vld <cntag_vld> | qtag_vld <qtag_vld> | vlan <vlan_id> | cos <cos_val> | cfi <cfi_vld> | vntag_vld <vntag_vld> | vntag_svif <vntag_svif> | vntag_dvif <vntag_dvif> | vntag_looped <vntag_loop> | vntag_pointer <vntag_p> | src_mac <smac> | dst_mac <dmac> } +`
 - `• set { outer | inner } l4 { l4-type <l4_type> | src-port <sport> | dst-port <dport> | packet-len <pkt_len> | checksum <csum> | flags <flag_val> | tn-nonce <tn_nonce> | tn-lsb <tn_lsb> | tn-nonce-info <tn_nonce_info> | tn-lsb-info <tn_lsb_info> | vnid <vnid_val> | nd-type <nd_type> | nd-code <nd_code>`

| nd-flags <nd_flags> | nd-ip <nd_ip> | nonce-lb <nonce_lb> | nonce-dl <nonce_dl> | nonce-e <nonce_e>
| nonce-sp <nonce_sp> | nonce-dp <nonce_dp> | nonce-dre <nonce_dre> | sclass <sclass> | lsb-m <lsb_m>
| lsb-lb-tag <lsb_lb_tag> | lsb-lb-metric <lsb_lb_metric> } +

- source warp interface <interface_range> [<src_dir>]
- ssh { kexalgorithms | ciphers | macs | keytypes } all
- switch-role border-leaf
- userpassphrase { min-length <min-len> | max-length <max-len> } +
- vrf [<name>]

Changed Commands

The following commands are changed in this release.

- OLD: clear flow exporter [name] <exportername>
- NEW: clear flow exporter { [name] <exportername> | all }
- OLD: clear hardware profile latency monitor [interface <intf-num>] [module <module>]
- NEW: clear hardware profile latency monitor [interface <intf-num>]
- OLD: clock protocol { ntp | ptp | none } vdc <vdc-id>
- NEW: clock protocol { ntp | ptp | none } [vdc <vdc-id>]
- OLD: configure replace { <uri_local> | <uri_remote> [source-interface <intf> | vrf <vrf-known-name>] } [verbose] [show-patch] [debug | stop-at-first-failure]
- NEW: configure replace { <uri_local> | <uri_remote> [source-interface <intf> | vrf <vrf-known-name>] } [[[verbose] [debug | stop-at-first-failure]] | show-patch]
- OLD: configure replace { <uri_local> | <uri_remote> [source-interface <intf> | vrf <vrf-known-name>] } [verbose] [show-patch] [debug | stop-at-first-failure]
- NEW: configure replace { <uri_local> | <uri_remote> [source-interface <intf> | vrf <vrf-known-name>] } [[[verbose] [debug | stop-at-first-failure]] | show-patch]
- OLD: icam monitor resource { acl_tcam | fib_tcam } module <module> inst <inst>
- NEW: icam monitor resource { acl_tcam | fib_tcam | l2_table } module <module> inst <inst>
- OLD: ip arp { [am mts-batch <batch-timer>] | [lookup_timeout <l2rib-timer>] }
- NEW: ip arp { am [mts-batch <batch-timer>] | lookup_timeout [<l2rib-timer>] }
- OLD: ip nat pool <pool-name> <start-ip> <end-ip> { netmask <netmask> | prefix-length <prefix-length> } [no-alias] | no ip nat pool <pool-name>
- NEW: ip nat pool <pool-name> <start-ip> <end-ip> { netmask <netmask> | prefix-length <prefix-length> } [no-alias] | no ip nat pool <pool-name> [<start-ip> <end-ip> { netmask <netmask> | prefix-length <prefix-length> }]
- OLD: pause { no-drop | { delayed-drop <timeout> } | { [buffer-size <size-in-bytes> pause-threshold <xoff-bytes> resume-threshold <xon-bytes>] pfc-cos <pfc-cos-list> } }
- NEW: pause { no-drop | receive | { delayed-drop <timeout> } | { [buffer-size <size-in-bytes> pause-threshold <xoff-bytes> resume-threshold <xon-bytes>] pfc-cos <pfc-cos-list> [receive] } }
- OLD: ptp clock-identity <mac_address> | no ptp clock-identity
- NEW: ptp clock-identity <mac-address> | no ptp clock-identity
- OLD: set ip next-hop [recursive] { load-share | <addr1> + [load-share] }

- NEW: `set ip next-hop [recursive] { load-share | force-order | <addr1> + [load-share] [force-order] }`
- OLD: `set ipv6 next-hop { load-share | <addr> + [load-share] }`
- NEW: `set ipv6 next-hop { load-share | force-order | <addr> + [load-share] [force-order] }`

Deprecated Commands

The following commands are removed in this release.

- { no | default } dest-ipaddr | dest-ipaddr { <ip-address> | <hostname> }
- { no | default } dest-port | dest-port <port>
- destination-profile <s0> message-level <i0>
- destination-profile <s0> message-size <i0>
- destination-profile CiscoTAC-1 message-level <i0>
- destination-profile CiscoTAC-1 message-size <i0>
- destination-profile full-txt-destination message-level <i0>
- destination-profile full-txt-destination message-size <i0>
- destination-profile short-txt-destination message-level <i0>
- destination-profile short-txt-destination message-size <i0>
- hardware access-list tcam region <arp-ether> <arpether_tcam_size> double-wide
- in-order-guarantee [vsan <i0>]
- install feature-set fex
- ip flow monitor <monitorname> { input }
- ip host <s0> <ipv4_0>
- ipv6 flow monitor <monitorname> { input }
- ipv6 host <s0> <ipv6_0>
- load-balance port-channel
- nbm switch-role border-leaf
- switch-priority <priority> | no switch-priority



New, Changed, and Deprecated Configuration Commands in Cisco Nexus 9000 Release 7.0(3)I7(3)

- [New Commands, on page 4626](#)
- [Changed Commands, on page 4629](#)
- [Deprecated Commands, on page 4631](#)

New Commands

The following commands are added in this release.

- [no] access-list ipv6 <acl-name>
- [no] address-family ipv4
- [no] address-family ipv6
- [no] bandwidth <bw_val>
- [no] boot poap enable
- [no] capture drops
- clear routing ip multicast rpf-source retry-cache [vrf { <vrf-name> | <vrf-known-name> | all }]
- clear system config reload-pending
- [no] collect <stats_type>
- [no] collector <collectorname>
- configure replace commit
- [no] connected-prefix-sid-map
- [no] debug hw_telemetry all
- [no] debug hw_telemetry ascii-cfg
- [no] debug hw_telemetry errors
- [no] debug hw_telemetry mts
- [no] debug hw_telemetry trace
- [no] debug segment-routing detail-trace
- [no] debug segment-routing ha
- [no] debug segment-routing trace
- dest-ipaddr { <ip-address> | <hostname> | <ipv6-address> }
- [no] destination ip-address <ipaddr> [vrf { <vrf-name> | <vrf-known-name> }]
- [no] destination udp-port <udpport>
- [no] device-group <group-name>
- [no] dfe-tuning-delay <delay-val>
- [no] dscp <dscp>
- [no] event <eventname>
- event-history hw_telemetry { category { all | mts [{ rx [{ brief | detail }] | tx [{ brief1 | detail1 }] }] } | no category { all | mts [{ rx [{ brief1 | detail1 }] | tx [{ brief2 | detail2 }] }] } }

- fec <fec_val_new> | no fec [<fec_val_new>]
- [no] feature grpc
- [no] feature netconf
- [no] feature restconf
- [no] fte event <eventname>
- [no] fte exporter <exportername>
- [no] fte monitor <monitorname>
- [no] fte record <recordname>
- [no] global-block <min-srgb-label> <max-srgb-label>
- [no] hardware profile svi flex-stats-enable
- [no] hardware qos aqm ecn head
- [no] icam monitor scale
- [no] icam monitor scale { { threshold info <ithres> warning <wthres> critical <cthres> } | { { { 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 } } } } limit <nlimit> } }
- [no] interface breakout-profile <profile>
- [no] interval <timeinterval>
- [no] ip igmp heavy-template
- [no] ip pim extranet
- [no] ip pim prune-on-expiry
- [no] ip verify unicast source reachable-via { rx | any [allow-default] } [policy { <policy-name> | <acl_pol_name> }]
- [no] ipv6 verify unicast source reachable-via { rx | any [allow-default] }
- [no] isis event-history sr { size { <size_in_text> | <size_in_kbytes> } }
- [no] isis event-history ulib { size { <size_in_text> | <size_in_kbytes> } }
- [no] isis prefix-attributes n-flag-clear
- { [no] debug | undebg } isis [<isis-tag>] distribute-ls
- { [no] debug | undebg } isis [<isis-tag>] lslib enable-file-tracing
- { [no] debug | undebg } isis [<isis-tag>] lslib errors
- { [no] debug | undebg } isis [<isis-tag>] lslib traces
- { [no] debug | undebg } isis [<isis-tag>] lslib verbose-traces
- { [no] debug | undebg } isis [<isis-tag>] sr

- { [no] debug | undebg } isis [<isis-tag>] ulib
- [no] lacp system-mac <mac-address> [role <role>
- [no] logging level hw_telemetry <i0>
- [no] logging level segment-routing <i0>
- [no] mtu <mtu>
- [no] parity <parity-value>
- [no] ptp bad_correction logging
- [no] ptp convergence-time [<val>]
- reload timer <delay>
- [no] snmp-server drop { unknown-user | unknown-engine-id }
- [no] snmp-server enable traps ospfv3 <tag> lsa
- [no] source ip-address <ipaddr>
- [no] source udp-port <udpport>
- [no] ssx collector <collectorname>
- [no] ssx monitor <monitorname>
- [no] ssx record <recordname>
- [no] switchport trunk allow-multi-tag
- [no] system fte monitor <monitorname>
- [no] system module emon-enhanced
- [no] system ssx monitor <monitorname>
- [no] system ssx system-id <systemid>
- [no] test system internal ptp stdout-log
- [no] timers srgb cleanup <interval>
- [no] timers srgb retry <interval>
- [no] { platform | hardware } qos { [cpu-pg-size <cpu-size>] [lcpu-pg-size <lcpu-size>] [span-pg-size <span-size>] }
- [no] { { <address> <mask> } | { <prefix> } } [index | absolute] <label>

Changed Commands

The following commands are changed in this release.

- OLD: clear bgp event-history { <bgp-event-hist> | detail | periodic | errors | objstore | all | msgs }
- NEW: clear bgp event-history { <bgp-event-hist> | detail | periodic | errors | objstore | developer | all | msgs }
- OLD: [no] configure config-template <name> { type vrf } { create | delete } substitute <match_replace>
- NEW: [no] configure config-template <name> { on-vrf-create | on-vrf-delete } substitute <match_replace>
- OLD: configure replace { <uri_local> | <uri_remote> [source-interface <intf> | vrf <vrf-known-name>] } [[[verbose] [debug | stop-at-first-failure]] | show-patch]
- NEW: configure replace { <uri_local> | <uri_remote> [source-interface <intf> | vrf <vrf-known-name>] } [[[verbose] [debug | stop-at-first-failure] [commit-timeout <time>]] | show-patch]
- OLD: encapsulation dot1Q <vlan_id> | no encapsulation dot1Q [<vlan_id>]
- NEW: encapsulation dot1q <vlan_id> | no encapsulation dot1q [<vlan_id>]
- OLD: link debounce [time <time_val>] | no link debounce [time <time_val>]
- NEW: link debounce { [link-up [time <time_val_link_up>]] [time <time_val>] } | no link debounce [link-up]
- OLD: [no] ip load-sharing address { source-destination [port source-destination2 | gre | gre-outer] | destination port2 destination2 | source } { [rotate <rotate>] [concatenation] } + [universal-id <random-seed>] | no ip load-sharing address
- NEW: [no] ip load-sharing address { source-destination [port source-destination2 | gre | gre-outer | gtpu] | destination port2 destination2 | source } { [rotate <rotate>] [concatenation] } + [universal-id <random-seed>] | no ip load-sharing address
- OLD: [no] ip service-reflect [<src-if>] destination <in-grp> to <out-grp> mask-len <g-mlen> source <in-out-src> [to <out-src> mask-len <s-mlen>]
- NEW: [no] ip service-reflect [<src-if>] destination <in-grp> to <out-grp> mask-len <g-mlen> source <in-out-src> [to <out-src> mask-len <s-mlen>] [sequence-number <seq-num>]
- OLD: [no] macsec keychain <keychain_name> [policy <policy_name>]
- NEW: [no] macsec keychain <keychain_name> [policy <policy_name>] [fallback-keychain <fallback_kc_name>] | [no] macsec keychain <keychain_name> [fallback-keychain <fallback_kc_name>] [policy <policy_name>]
- OLD: [no] mode tap-aggregation
- NEW: [no] mode tap-aggregation [{ vlan <vlan_id> }]
- OLD: [no] mpls strip

- NEW: [no] mpls strip [{ mode dot1q }]
- OLD: [no] nbm mode flow
- NEW: [no] nbm mode pim-active [__readonly__ <output>]
- OLD: [no] snmp-server enable traps ospfv3 [<tag>] lsa
- NEW: [no] snmp-server enable traps ospfv3 lsa
- OLD: [no] stopbits { 1 }
- NEW: [no] stopbits <stopbits-value>
- OLD: [no] tcp-connect { <hostname> | <ip-address> } <dest-port> { [control { disable | enable }] [source-ip { <source-ip-hostname> | <source-ip-address> }] [source-port <src-port>] } +
- NEW: [no] tcp-connect { <hostname> | <ip-address> | <ipv6-address> } <dest-port> { [control { disable | enable }] [source-ip { <source-ip-hostname> | <source-ip-address> | <source-ipv6-address> }] [source-port <src-port>] } +
- OLD: [no] wedge bmc ip-addr <ip>
- NEW: [no] wedge bmc ip-addr { <ip> | <ip_v6> }

Deprecated Commands

The following commands are removed in this release.

- bandwidth <value>
- device-group <group-name>
- global-block <min-srgb-label> <max-srgb-label>
- ip verify unicast source reachable-via { rx | any [allow-default] } [policy { <policy-name> | <acl_pol_name> }]
- ipv6 verify unicast source reachable-via { rx | any [allow-default] }
- license grace period <i0>
- license grace-period
- license grace-period days <i0>
- license grace-period seconds <i0>
- logging level mtc-usd <level> | no logging level mtc-usd
- plb <service-name>
- plb analytics <service-name>
- plb device-group <group-name>
- python execute virtual-service <service> command [<pyargs>] +



New, Changed, and Deprecated Configuration Commands in Cisco Nexus 9000 Release 7.0(3)I7(4)

- [New Commands, on page 4634](#)
- [Changed Commands, on page 4635](#)
- [Deprecated Commands, on page 4637](#)

New Commands

The following commands are added in this release.

- `debug l2fm clear peer_sync_db [[counters] | [[force-flush] [address <mac-addr> | interface <interface-name> | peer-ip <peerip>] [vlan <vlan-id>]]]`
- `[no] feature hw_telemetry`
- `[no] hardware qos dynamic-buffer-sharing`
- `[no] ip arp evpn timeout <time-out>`
- `[no] { ip | ipv4 } routing multicast mfdm-buffer-route-count { <size> }`
- `[no] link rxlos [algo <algo_val>]`
- `[no] link transmit reset-skip`
- `lldp dcbb version auto`
- `[no] lldp dcbb version { cee | ieee }`
- `[no] macsec shutdown`
- `[no] port-type <type>`
- `[no] power inline default_consumption <wattage>`
- `[no] priority-flow-control watch-dog forced { on | off }`
- `[no] ptp correction hardware`
- `[no] system mode maintenance maint-delay <delay-value>`
- `test l2fm peer_sync_db { { enable | disable } [auto-recovery] | { activate | deactivate } | { add-mac address <mac-addr> vlan <vlan-id> { interface <interface-name> | peer-ip <peerip> } } }`
- `[no] ttag-strip`

Changed Commands

The following commands are changed in this release.

- OLD: [no] match { { access-group name <acl-name> } | [not] { dscp { <dscp-list> | { <dscp-enum> } + } | { { packet length <len-list> | ip rtp <port-list> } [replace] } | { cos <cos-list> } | { qos-group <qos-group-list> } | { precedence { <precedence-list> | { <prec-enum> } + } } | { protocol <protocol-enum> } | { mpls experimental topmost <exp-list> } } }
- NEW: [no] match { { access-group name <acl-name> } | [not] { dscp { <dscp-list> | { <dscp-enum> } + } | { { packet length <len-list> | ip rtp <port-list> } [replace] } | { cos <cos-list> } | { qos-group <qos-group-list> } | { precedence { <precedence-list> | { <prec-enum> } + } } | { protocol <protocol-enum> } | { mpls experimental topmost <exp-list> } | { ip roce <port-list> } } }
- OLD: clear ip nat translation { all | inside <insideGlobalIP> <insideLocalIP> [outside <outsideLocalIP> <outsideGlobalIP>] | outside <outsideLocalIP> <outsideGlobalIP> | tcp { inside <insideGlobalIP> <insideGlobal-port> <insideLocalIP> <insideLocal-port> outside <outsideLocalIP> <outsideLocal-port> <outsideGlobalIP> <outsideGlobal-port> } | udp { inside <insideGlobalIP> <insideGlobal-port> <insideLocalIP> <insideLocal-port> outside <outsideLocalIP> <outsideLocal-port> <outsideGlobalIP> <outsideGlobal-port> } }
- NEW: clear ip nat translation { all | inside <insideGlobalIP> <insideLocalIP> [outside <outsideLocalIP> <outsideGlobalIP>] | outside <outsideLocalIP> <outsideGlobalIP> | tcp { inside <insideGlobalIP> <insideGlobal-port> <insideLocalIP> <insideLocal-port> outside <outsideLocalIP> <outsideLocal-port> <outsideGlobalIP> <outsideGlobal-port> } | udp { inside <insideGlobalIP> <insideGlobal-port> <insideLocalIP> <insideLocal-port> outside <outsideLocalIP> <outsideLocal-port> <outsideGlobalIP> <outsideGlobal-port> } | icmp { inside <insideGlobalIP> <insideGlobal-port> <insideLocalIP> <insideLocal-port> outside <outsideLocalIP> <outsideLocal-port> <outsideGlobalIP> <outsideGlobal-port> } }
- OLD: configure replace { <uri_local> | <uri_remote> [source-interface <intf> | vrf <vrf-known-name>] } [[[verbose] [debug | stop-at-first-failure] [commit-timeout <time>]] | show-patch]
- NEW: configure replace { <uri_local> | <uri_remote> [source-interface <intf> | vrf <vrf-known-name>] } [[[verbose] [debug | stop-at-first-failure] [commit-timeout <time>] [non-interactive]] | show-patch]
- OLD: { [<seqno>] | no } <permitdeny> { { ethertype <ethertypeid> } | { <proto_udp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } [{ { <src_port_op> { <src_port0> | <src_port0_str> } } | { <src_port_range> { <src_port1> | <src_port1_str> } { <src_port2> | <src_port2_str> } } | src_portgroup <src_port_group> }] } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } [{ { <dst_port_op> { <dst_port0> | <dst_port0_str> } } | { <dst_port_range> { <dst_port1> | <dst_port1_str> } { <dst_port2> | <dst_port2_str> } } | dst_portgroup <dst_port_group> }] } { [[log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> } }] + | [[log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> } }] + [{ udf { <udf_name> <udf_val> <udf_mask> } + }] [nve vni <vni-id>] | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host

```

<dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } { { [ fragments ] | [ log ] [ time-range
<time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp
{ <dscp_num> | <dscp_str> } } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val> <udf_mask> } + }
] } + | { [ [ fragments ] | [ log ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0>
| <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> |
<prec_str> } } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val> <udf_mask> } + } ] } + } } [ nve
vni <vni-id> ] } } [ vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid>
] + { { [ [ log ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range>
<plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> } ] } + | { [ [ log ] [ time-range
<time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos {
<tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> } ] } + [ {
udf { <udf_name> <udf_val> <udf_mask> } + } ] # 2052 ../feature/acl_mgr/cli/aclmgr.cmd [ capture
session <session-id> ] { [ <action> <actionid> ] } + [ log ]

```

- NEW: { [<seqno>] | no } <permitdeny> { { ethertype <ethertypeid> } | { <proto_udp> { { { <src_any>
| <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp
<src_addrgrp_name> } } [{ { <src_port_op> { <src_port0> | <src_port0_str> } } | { <src_port_range>
{ <src_port1> | <src_port1_str> } { <src_port2> | <src_port2_str> } } | src_portgroup <src_port_group>
}] } <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | {
dst_key_addrgrp <dst_addrgrp_name> } } [{ { <dst_port_op> { <dst_port0> | <dst_port0_str> } } | {
<dst_port_range> { <dst_port1> | <dst_port1_str> } { <dst_port2> | <dst_port2_str> } } | dst_portgroup
<dst_port_group> }] } { [[log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0>
| <plen_range> <plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> }] } + | {
[[log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl
<ttl_num> }] } + } [{ udf { <udf_name> <udf_val> <udf_mask> } + }] [nve vni <vni-id>] | { {
<src_any> | <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp
<src_addrgrp_name> } } { <dst_any> | <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host
<dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } { { [fragments] | [log] [time-range
<time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp
{ <dscp_num> | <dscp_str> } } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val> <udf_mask> } + }
] } + | { [[fragments] | [log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0>
| <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> |
<prec_str> } } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val> <udf_mask> } + }] } + } } [nve
vni <vni-id>] } } [vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid>
] + { { [[log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range>
<plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> }] } + | { [[log] [time-range
<time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos {
<tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> }] } + [{
udf { <udf_name> <udf_val> <udf_mask> } + }] # 2061 ../feature/acl_mgr/cli/aclmgr.cmd [capture
session <session-id>] { [<action> <actionid>] } + [log]

Deprecated Commands

The following commands are removed in this release.

- [no] hardware qos aqm ecn head



New, Changed, and Deprecated Configuration Commands in Cisco Nexus 9000 Release 7.0(3)I7(5)

- [New Commands, on page 4640](#)
- [Changed Commands, on page 4642](#)
- [Deprecated Commands, on page 4651](#)

New Commands

The following commands are added in this release.

- clear sup-monitor drops session <session_number> [module <module>]
- [no] collect { egress buffer depth }
- [no] collect { egress pool-group depth }
- [no] collect { egress queue depth | egress queue drops | egress queue microburst | egress queue peak | egress queue average-depth }
- [no] collect { ethernet counters }
- [no] collect { ingress queue depth | ingress queue drops }
- [no] feature signature-verification
- [no] hardware-telemetry ssx
- [no] ignore routable
- [no] ingress-mtu <mtu_value>
- { [no] debug | undebg } ip nat-packet
- [no] ip pim evpn-border-leaf
- [no] nexthop suppress-default-resolution
- [no] nxapi ssl ciphers weak
- [no] nxapi ssl protocols <prot_string>
- [no] per-ingress-port-mtu-mode
- [no] port-channel fast-convergence
- [no] qos-mode pipe
- [no] system module failure-action shutdown multibit-parity
- [no] system shutdown fans 2
- test hardware internal ptp sync-cpu-asic
- [no] transport udp { src-port <srcport> dst-port <dstport> | dst-port <dstport> src-port <srcport> | src-port <srcport> | dst-port <dstport> }
- show consistency-checker racl svi interface <vlan-id>
- show forwarding distribution multicast vxlan dsg-db
- show interface <ifeth_ctr> counters [__readonly__ { TABLE_rx_counters <interface_rx> [<eth_inbytes>] [<eth_inucast>] [<eth_inmcast>] [<eth_inbcast>] [<eth_l3in_bytes>] [<eth_l3in_ucastpkts>] [<eth_l3in_mcastpkts>] [<eth_l3in_bcastpkts>] } { TABLE_tx_counters <interface_tx> [<eth_outbytes>] [<eth_outucast>] [<eth_outmcast>] [<eth_outbcast>] [<eth_l3out_bytes>] [<eth_l3out_ucastpkts>] [<eth_l3out_mcastpkts>] [<eth_l3out_bcastpkts>] } }

- 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>] }]
- show port-channel fast-convergence
- show ssx details [__readonly__ [TABLE_ssx_details <arp-timer-running><asic-instance><asic-slice><io-srcid> [<packets-sent>]]]
- show ssx exporter { all | <exportername> } [__readonly__ [TABLE_ssx_exporters <exporter-name> <src-ip><src-udp-port><dest-ip><dest-udp-port><vrf><mtu><dscp>]]
- show ssx monitor { all | <monitorname> } [__readonly__ [TABLE_ssx_monitors <monitor-name> <globally-applied><status><exportername><recordname>]]
- show ssx record { all | <recordname> } [__readonly__ [TABLE_ssx_records <record-name> [TABLE_stats_type <stats-type>] <interval>]]
- show sup-monitor drops session <session_number> [module <module>]
- show system image-verification
- show ttag brief [__readonly__ { [TABLE_ttag <ttag-ifindex> <state>] } <ttag-end>]

Changed Commands

The following commands are changed in this release.

- OLD: clear ip internal event-history { errors | log | ipc | snmp | ha | ppf | cli | vrf-errors | arp-miss | static-rt | pkt-buffer | dampening | all } [dump-to-file]
- NEW: clear ip internal event-history { errors | log | ipc | snmp | ha | ppf | cli | vrf-errors | arp-miss | static-rt | pkt-buffer | dampening | nat | all } [dump-to-file]
- OLD: [no] debug hw_telemetry all
- NEW: [no] debug hardware-telemetry all
- OLD: [no] debug hw_telemetry ascii-cfg
- NEW: [no] debug hardware-telemetry ascii-cfg
- OLD: [no] debug hw_telemetry errors
- NEW: [no] debug hardware-telemetry errors
- OLD: [no] debug hw_telemetry mts
- NEW: [no] debug hardware-telemetry mts
- OLD: [no] debug hw_telemetry trace
- NEW: [no] debug hardware-telemetry trace
- OLD: [no] destination ip-address <ipaddr> [vrf { <vrf-name> | <vrf-known-name> }]
- NEW: [no] destination <ipaddr> [use-vrf { <vrf-name> | <vrf-known-name> }]
- OLD: event-history hw_telemetry { category { all | mts [{ rx [{ brief | detail }] | tx [{ brief1 | detail1 }]] } } | no category { all | mts [{ rx [{ brief1 | detail1 }] | tx [{ brief2 | detail2 }]] } } }
- NEW: event-history hardware-telemetry { category { all | mts [{ rx [{ brief | detail }] | tx [{ brief1 | detail1 }]] } } | no category { all | mts [{ rx [{ brief1 | detail1 }] | tx [{ brief2 | detail2 }]] } } }
- OLD: [no] feature hw_telemetry
- NEW: [no] feature hardware-telemetry
- OLD: [no] logging level hw_telemetry <i0>
- NEW: [no] logging level hardware-telemetry <i0>
- OLD: [no] set { { discard-class <dis-class-val> } | { { { cos1 cos2 } | { dscp1 dscp2 } | { prec1 prec2 } } | { dis-class1 dis-class2 } | { dscp3 mpls-exp-imposition } | { mpls-exp-topmost dscp4 } | { mpls-exp-topmost1 mpls-exp-topmost2 } } table <table-map-name> } | { mpls experimental { { topmost <exp-value> } | { imposition <exp-value-imp> } } } }

- NEW: [no] set { { discard-class <dis-class-val> } | { { { cos1 cos2 } | { dscp1 dscp2 } | { prec1 prec2 } | { dis-class1 dis-class2 } | { dscp3 mpls-exp-imposition } | { mpls-exp-topmost dscp4 } | { mpls-exp-topmost1 mpls-exp-topmost2 } } } table <table-map-name> } }
- OLD: [no] set { { dlb-disable } | { precedence [prec-tunnel] { <prec-val> | <prec-enum> } } | { dscp [tunnel] { <dscp-val> | <dscp-enum> } } | { cos <cos-val> } | { qos-group <qos-grp-val> } }
- NEW: [no] set { { dlb-disable } | { precedence [prec-tunnel] { <prec-val> | <prec-enum> } } | { dscp [tunnel] { <dscp-val> | <dscp-enum> } } | { cos <cos-val> } | { qos-group <qos-grp-val> } | { mpls experimental { { topmost <exp-value> } | { imposition <exp-value-imp> } } } }
- OLD: [no] source ip-address <ipaddr>
- NEW: [no] source <ipaddr>
- OLD: [no] ssx collector <collectorname>
- NEW: [no] ssx exporter <exportername>
- OLD: [no] system ssx monitor <monitorname>
- NEW: [no] ssx system monitor <monitorname>
- OLD: [no] system ssx system-id <systemid>
- NEW: [no] ssx system system-id <systemid>
- OLD: [no] version <s0>
- NEW: [no] version <s0> [<s1>] [<s2>] [<s3>] [<s4>]
- OLD: 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>]]]
- NEW: 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>

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] [ TABLE_seqno <seqno> { <permitdeny> [ <proto_str> | <proto> | <ip> | <ipv6> ] { <src_any> |
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| <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> ] [ [
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<tcp-option-length> ] [ <tcp-flags-mask> ] [ <flow_label> ] [ <timerange> ] [ <eth_proto> |
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] ] [ ethertype <ethertypeid> | vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority
<vlanpriorityid> ] + [ <action> <actionid> ] [ [ <stats_enabled> ] [ <frag_option> ] [ <ign_rtable> ] {
<num_ace> } { <conf_if_header> } [ <conf_if> ] { <active_if_header> } [ <active_if> ] ] ]

```

- OLD: show bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] { { { ipv4 { unicast | multicast } | vpnv4 unicast | ipv4 mdt | link-state | l2vpn vpls | l2vpn evpn | ipv4 mvpn } nexthop-database [<ipnexthop>] } | { { ipv6 { unicast | multicast } | vpnv6 unicast | ipv6 mvpn } nexthop-database [<ipv6nexthop>] } | { all nexthop-database } } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] [__readonly__ TABLE_nhvrif <nhvrif-name-out> TABLE_nhafi <nhafi> TABLE_nhsafi <nhsafi> <af-name> <nhcriticaldelay> <nhnnoncriticaldelay> [{ 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>] }]]]
- NEW: show bgp [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] { { { ipv4 { unicast | multicast } | vpnv4 unicast | ipv4 mdt | link-state | l2vpn vpls | l2vpn evpn | ipv4 mvpn } nexthop-database [<ipnexthop>] } | { { ipv6 { unicast | multicast } | vpnv6 unicast | ipv6 mvpn } nexthop-database [<ipv6nexthop>] } | { all nexthop-database } } [vrf { <vrf-name> | <vrf-known-name> | ALL_VRFS_012345678901234 }] [__readonly__ TABLE_nhvrif <nhvrif-name-out> TABLE_nhafi <nhafi> TABLE_nhsafi <nhsafi> <af-name> <nhcriticaldelay> <nhnnoncriticaldelay> [{ TABLE_nexthop { <ipnexthop-out> | <ipv6nexthop-out> } <refcount> <igpmetric> <igptype> <igppref> [{ TABLE_attachedhops { <attachedhop> | <ipv6attachedhop> } <interface> [{ TABLE_labels <index> <label> }] }] <attached> <local> <reachable> <labeled> <filtered> <suppressed> <resolvetime> { <ribroute> | <ipv6ribroute> } { <pendingupdate> | <pendingtime> } <nextadvertise> <rnhepoch> [<pendingrnhepoch>] }]]]
- OLD: show consistency-checker forwarding single-route { ipv4 | ipv6 } <ip-prefix> prefix-len <pfx-len> vrf <vrf-name>
- NEW: show consistency-checker forwarding single-route { ipv4 | ipv6 } <ip-prefix> vrf <vrf-name>
- OLD: show debug hw_telemetry
- NEW: show debug hardware-telemetry
- OLD: 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>]
}]

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- NEW: show interface counters [ non-zero ] [ \_\_readonly\_\_ { TABLE\_rx\_counters <interface\_rx> [ <eth\_inpkts> ] [ <fc\_inframes> ] [ <eth\_inbytes> ] [ <fc\_inbytes> ] [ <eth\_inucast> ] [ <eth\_inmcast> ] [ <eth\_inbcast> ] [ <eth\_l3in\_bytes> ] [ <eth\_l3in\_ucastpkts> ] [ <eth\_l3in\_mcastpkts> ] [ <eth\_l3in\_bcastpkts> ] } } { TABLE\_tx\_counters <interface\_tx> [ <eth\_outpkts> ] [ <eth\_outbytes> ] [ <eth\_outucast> ] [ <eth\_outmcast> ] [ <eth\_outbcast> ] [ <eth\_l3out\_bytes> ] [ <eth\_l3out\_ucastpkts> ] [ <eth\_l3out\_mcastpkts> ] [ <eth\_l3out\_bcastpkts> ] } }
  - OLD: 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-fbrport> ] [ <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> <stdby-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> ] ]
  - NEW: 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-fbrport> ] [ <tx-fixup-core> ] [ <tx-fixup-server> ] [ <tx-fixup-rarp> ] [ <tx-anycast-glean> ] <tx-mbuf-fail> <tx-ctxt-not-crted> <tx-bad-ctxt-id> <tx-invalid-ifindex> <tx-invalid-sip> <tx-invalid-dip> <tx-own-ip> <tx-unattached-ip> <tx-adj-create-fail> <tx-null-sip> <tx-null-smac> <tx-client-enq-fail> <tx-dest-unreachable-proxy-arp> <tx-dest-unreachable-enhanced-proxy> <tx-dest-l2port-track> <tx-invalid-local-proxy> <tx-invalid-proxy> <tx-vip-not-active> <tx-skip-refresh-over-core-and-flood-to-server> <rx-total> <rx-req> <rx-reply> <rx-req-l2> <rx-reply-l2> <rx-proxy> <rx-local-proxy> <rx-enhanced-proxy> <rx-enhanced-proxy-anycast> <rx-enhanced-proxy-l2port-track> <rx-tunnel> <rx-fastpath> <rx-snoop> <rx-drop> <rx-srvrport> <bad-if> <bad-len> <invalid-prot> <invalid-hrd-type> <invalid-ctxt> <ctxt-not-crted> <invalid-l2> <invalid-l3> <invalid-sip> <our-sip> <arp-if-no-mem> <subnet-mismatch> <dir-bcast> <invalid-dip> <non-local-dst> <non-active-fhrp> <invalid-smac> <our-smac> <not-init> <l2-prxy-en> <l2-port-untrusted> <stdby-fhrp-vip> <grat-prxy-en> <arp-req-ignore> <l2-intf> <l2fm-query-fail> <tunnel\_fail> [ <hsrp-active-vmac> ] [ <rx-intf-down> ] <refresh-req-from-clients> <l2rib-signals> <adds> <dels> <timeouts> ] ]
  - OLD: show ip internal event-history { errors | msgs | ipc | ha | log | ppf | cli | vrf-errors | arp-miss | snmp | static-rt | lcache-err | lcache-trace | pkt-buffer | objstr | dampening }
  - NEW: show ip internal event-history { errors | msgs | ipc | ha | log | ppf | cli | vrf-errors | arp-miss | snmp | static-rt | lcache-err | lcache-trace | pkt-buffer | objstr | dampening | nat }

- OLD: show ip route [ 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> [ <multicast\_paths> ] [ TABLE\_unicast [ <clientnameuni> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_route\_count [ <mask\_len> ] [ <count> ] ] ] ]
- NEW: show ip route [ 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> ] [ <bgpbackuppath> ] [ <ubest> ] [ <mbest> ] ] [ TABLE\_summary <routes> <paths> [ <multicast\_paths> ] [ TABLE\_unicast [ <clientnameuni> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_multicast [ <clientnamemulti> ] [ <best-paths> ] [ <backup-paths> ] ] [ TABLE\_route\_count [ <mask\_len> ] [ <count> ] ] ] ]
- OLD: 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> ] ]
- NEW: 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> ] ]

- ```

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<drop_server_direct_reply> <drop_no_ipv6_addr> <drop_intf_error> <drop_vpn_disabled>
<drop_ipv6_extn_hdrs_presence> <drop_mct_drop> ] ]

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- OLD: show ldap-search-map [__readonly__ { number_of_search_maps <search_map_count> } [TABLE_ldap_searchmaps <map_name> [<map_baseDN> <map_attr> <map_filter>]]]
 - NEW: show ldap-search-map [__readonly__ { number_of_search_maps <search_map_count> } [TABLE_ldap_searchmaps [<map_name> <map_baseDN> <map_attr> <map_filter>]]]
 - OLD: 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>] +]]
 - NEW: 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>] +]]
 - OLD: show logging level hw_telemetry
 - NEW: show logging level hardware-telemetry
 - OLD: 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>]]]]]


```
][ <ubest> ][ <mbest> ]][ TABLE_summary <routes> <paths> [ <multicast_paths> ]][ TABLE_unicast
[ <clientnameuni> ][ <best-paths> ][ <backup-paths> ]][ TABLE_multicast [ <clientnamemulti> ][
<best-paths> ][ <backup-paths> ]][ TABLE_route_count [ <mask_len> ][ <count> ]][ ]]
```

- OLD: 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>]]
- NEW: show routing [vrf { <vrf-name> | <vrf-known-name> | <vrf-all> }] [ip | ipv4] [unicast] [topology <topology-name>] hash <source> <dest> [ip-proto <ip-proto>] { [<gtp-teid> <gtp-teid>] } | { [<src-port> <dest-port>] } [in-interface <in-interface>] [module <module-id>] [vrf { <vrf-name> | <vrf-known-name> | <vrf-all> }] [__readonly__ TABLE_vrf <vrf-name-out> TABLE_addrf <addrf> TABLE_hashpath <mcast> <hashpath> <hash-val> TABLE_prefix <ipprefix> <ucast-nhops> <mcast-nhops> <attached> TABLE_path <ubest> <mbest> <ipnexthop> <ifname> <pref> <metric> <uptime> <clientname> [<type>] [<tag>] [<stale>] [<unres>] [<hidden>] [<stale-label>]]
- OLD: show running-config hw_telemetry [all]
- NEW: show running-config hardware-telemetry [all]
- OLD: show startup-config hw_telemetry [all]
- NEW: show startup-config hardware-telemetry [all]
- OLD: show system internal hw_telemetry details
- NEW: show system internal hardware-telemetry details
- OLD: show system internal hw_telemetry event-history debug
- NEW: show system internal hardware-telemetry event-history debug
- OLD: show system internal hw_telemetry event-history errors
- NEW: show system internal hardware-telemetry event-history errors
- OLD: show system internal hw_telemetry event-history msgs
- NEW: show system internal hardware-telemetry event-history msgs
- OLD: show system internal hw_telemetry mem-stats [detail]
- NEW: show system internal hardware-telemetry mem-stats [detail]
- OLD: show tech-support hw_telemetry
- NEW: show tech-support hardware-telemetry
- OLD: show { system internal | hardware } access-list resource { { { entries | l4ops | redirect | ipv6-compression | mac-compression | aqm-d | aqm-q | oq | opool | prm | hw-telemetry } [detail] } | utilization | { entry tcam <tcam_id> bank <bank_id> index <index> } } [no-header] [module <module>

```
] [ __readonly__ [ TABLE_instance <inst> [ TABLE_resource_util_info <resource_hdr> <ents_use>
<ents_free> <ents_pctage> ] ] ]
```

- NEW: show { system internal | hardware } access-list resource { { { entries | l4ops | redirect | ipv6-compression | mac-compression | aqm-d | aqm-q | oq | opool | prm | hardware-telemetry } [detail] } | utilization | { entry tcam <tcam_id> bank <bank_id> index <index> } } [no-header] [module <module>] [__readonly__ [TABLE_instance <inst> [TABLE_resource_util_info <resource_hdr> <ents_use> <ents_free> <ents_pctage>]]]

Deprecated Commands

The following commands are removed in this release.

- [no] collect <stats_type>
- [no] collector <collectorname>
- [no] destination udp-port <udpport>
- [no] ptp bad_correction <value>
- [no] ptp bad_correction logging
- [no] snmp-server drop { unknown-user | unknown-engine-id }
- [no] source udp-port <udpport>
- show consistency-checker vxlan vlan <vlanid>
- 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>]]
- show hw_telemetry ssx details [__readonly__ [TABLE_ssx_details <arp-timer-running><asic-instance><asic-slice><io-srcid> [<packets-sent>]]]
- show hw_telemetry ssx monitor { all | <monitorname> } [__readonly__ [TABLE_ssx_monitors <monitor-name> <globally-applied><status><collectorname><recordname>]]
- show hw_telemetry ssx record { all | <recordname> } [__readonly__ [TABLE_ssx_records <record-name> [TABLE_stats_type <stats-type>] <interval>]]



New, Changed, and Deprecated Configuration Commands in Cisco Nexus 9000 Release 7.0(3)I7(6)

- [New Commands, on page 4654](#)
- [Changed Commands, on page 4656](#)
- [Deprecated Commands, on page 4658](#)

New Commands

The following commands are added in this release.

- [no | default] advertise local-labeled-route
- clear ethpm config counter
- [no] collect counter { bytes | packets }
- [no] collect interval <interval>
- debug aclmgr set ppf debug-flags { none | critical | default | verbose | <flags> }
- debug aclmgr set ppf file-logging { on | off }
- debug hardware internal tah stats { allgroup asic <asic-num> { enable | disable } } | { poll-period <statspoll> }
- [no | default] dscp { <dscp-enum> | <dscp-val> }
- [no] exporter-bucket-id <eb-id> <hash-lo> <hash-hi>
- [no] filter <filename>
- [no] filter tx control-packets
- [no] flow filter <filename>
- [no] flow profile <profilename>
- [no] flow system config
- [no] hardware profile racl priority toggle
- [no] hardware profile team mcast racl-bridge
- [no] include-icv-indicator
- [no] { ipv4 | ipv6 } <aclname>
- [no] logging rfc-strict { 5424 }
- [no] match ip { source | destination } address
- [no] monitor <monitorname> input
- [no] port-channel scale-fanout
- [no] profile <profilename>
- [no] ptp correction-range logging
- [no] source port <portnumber>
- [no] system internal dis-static-move-drop
- system no poap
- [no] system nve data-path learning

- system poap
- telemetry conf-help [no] monitor { all | environment | interfaces | queuing } [no-prompt]
- telemetry trigger subscription <sub-id> [snsr-grp <snr-grp-id>] [delay <time>]
- [no] terminal dont-expunge
- [no] test spm block
- [no] test system internal ptp auto-log
- [no] test system internal ptp auto-log correction-limit <corrns>
- [no] test system internal ptp auto-log file-max-count <count>
- [no] test system internal ptp auto-log file-rollover
- write erase poap

Changed Commands

The following commands are changed in this release.

- OLD: [no] debug aclmgr ppf { mts | session | session-state | pss | errors | remote-link }
- NEW: [no] debug aclmgr ppf { events | mts | session | session-state | pss | errors | remote-link }
- OLD: [no] icam monitor scale { { threshold info <ithres> warning <wthres> critical <cthres> } | { { { 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 } } } } limit <nlimit> } }
- NEW: [no] icam monitor scale { { threshold info <ithres> warning <wthres> critical <cthres> } | { { { l2-switching { mac-addresses | mst-instances | mst-vports | rpvst-vports | rpvst-vlans | total-vlans-x-ports | 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 } } } } limit <nlimit> } }
- OLD: [no] priority-flow-control mode { auto | on | off } [force]
- NEW: [no] priority-flow-control mode { auto | on [send-tlv] | off } [force]
- OLD: [no] system internal clis event-history { nvdb | client | errors | parser | ha | cli | objstr | objstr-errors } size { <size_in_text> | <size_in_bytes> }
- NEW: [no] system internal clis event-history { nvdb | client | errors | parser | ha | cli | objstr | objstr-errors | nvdb-errors | init-log } size { <size_in_text> | <size_in_bytes> }
- OLD: [no | default] next-hop-self
- NEW: [no | default] next-hop-self [all]
- OLD: diagnostic bootup level { bypass | complete }
- NEW: diagnostic bootup level { bypass | complete | minimal }
- OLD: { [<seqno>] | no } <permitdeny> { { ethertype <ethertypeid> } | { <proto_udp> { { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } [{ { <src_port_op> { <src_port0> | <src_port0_str> } } | { <src_port_range> { <src_port1> | <src_port1_str> } } { <src_port2> | <src_port2_str> } } | src_portgroup <src_port_group> }] } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } [{ { <dst_port_op> { <dst_port0> | <dst_port0_str> } } | { <dst_port_range> { <dst_port1> | <dst_port1_str> } } { <dst_port2> | <dst_port2_str> } } | dst_portgroup <dst_port_group> }] } { [[log] [time-range <time_range_name>]] packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> } }] } + | { [[log] [time-range <time_range_name>]] packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } }] } | { ttl <ttl_num> } }] } + } [{ udf { <udf_name> <udf_val> <udf_mask> } + }] [nve vni <vni-id>] } | { { <src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp <src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host


```

<dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } { { [ [ fragments ] | [ log ] [ time-range
<time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp
{ <dscp_num> | <dscp_str> } } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val> <udf_mask> } + }
] } + | { [ [ fragments ] | [ log ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0>
| <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> |
<prec_str> } } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val> <udf_mask> } + } ] } + } } [ nve
vni <vni-id> ] } } } [ vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid>
] + { { [ [ log ] [ time-range <time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range>
<plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> } ] } + | { [ [ log ] [ time-range
<time_range_name> ] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos {
<tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> } ] } + } [ {
udf { <udf_name> <udf_val> <udf_mask> } + } ] # 2062 ../feature/acl_mgr/cli/aclmgr.cmd [ capture
session <session-id> ] { [ <action> <actionid> ] } + [ log ]

```

- NEW: { { <seqno>] | no } <permitdeny> { { ethertype <ethertypeid> } | { <proto_udp> { { { <src_any>
| { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp
<src_addrgrp_name> } } } [{ { <src_port_op> { <src_port0> | <src_port0_str> } } | { <src_port_range>
{ <src_port1> | <src_port1_str> } { <src_port2> | <src_port2_str> } } | src_portgroup <src_port_group>
} }] { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host <dst_host> } | {
dst_key_addrgrp <dst_addrgrp_name> } } } [{ { <dst_port_op> { <dst_port0> | <dst_port0_str> } } | {
<dst_port_range> { <dst_port1> | <dst_port1_str> } { <dst_port2> | <dst_port2_str> } } | dst_portgroup
<dst_port_group> } }] { { [[log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0>
| <plen_range> <plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> }] } + | {
[[log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1>
<plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl
<ttl_num> }] } + } [{ udf { <udf_name> <udf_val> <udf_mask> } + }] [nve vni <vni-id>] | { {
<src_any> | { <src_addr> <src_wild> } | <src_prefix> | { src_key_host <src_host> } | { src_key_addrgrp
<src_addrgrp_name> } } } { <dst_any> | { <dst_addr> <dst_wild> } | <dst_prefix> | { dst_key_host
<dst_host> } | { dst_key_addrgrp <dst_addrgrp_name> } } } { { [[fragments] | [log] [time-range
<time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { dscp
{ <dscp_num> | <dscp_str> } } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val> <udf_mask> } + }
] } + | { [[fragments] | [log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0>
| <plen_range> <plen1> <plen2> } | { tos { <tos_num> | <tos_str> } } | { precedence { <prec_num> |
<prec_str> } } | { ttl <ttl_num> } | { udf { <udf_name> <udf_val> <udf_mask> } + }] } + } } [nve
vni <vni-id>] } } } [vlan <vlanid> | ingress_intf { <intfid> | <intfname> } | vlan_priority <vlanpriorityid>
] + { { [[log] [time-range <time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range>
<plen1> <plen2> } | { dscp { <dscp_num> | <dscp_str> } } | { ttl <ttl_num> }] } + | { [[log] [time-range
<time_range_name>] | packet-length { <plen_op> <plen0> | <plen_range> <plen1> <plen2> } | { tos {
<tos_num> | <tos_str> } } | { precedence { <prec_num> | <prec_str> } } | { ttl <ttl_num> }] } + } [{
udf { <udf_name> <udf_val> <udf_mask> } + }] # 2073 ../feature/acl_mgr/cli/aclmgr.cmd [capture
session <session-id>] { [<action> <actionid>] } + [log]

Deprecated Commands

The following commands are removed in this release.

-



New, Changed, and Deprecated Configuration Commands in Cisco Nexus 9000 Release 7.0(3)I7(7)

- [New Commands, on page 4660](#)
- [Changed Commands, on page 4661](#)
- [Deprecated Commands, on page 4662](#)

New Commands

The following commands are added in this release.

- [no] bfd authentication interop
- clear ip nat statistics
- [no] icam monitor interval <interval-hours> { num_intervals | history } <number-of-intervals>
- [no] ip pps threshold unicast-forward <size> [<logInterval>]
- [no] ipv4 <aclname>
- [no] ipv6 <aclname>
- [no] link dfe adaptive-tuning
- [no] link mac-up timer <mac_up_timer_val>
- [no] logging history { <i0> | size <i1> }
- [no] logging level ngmvpn <level>
- [no] mac address-table loop-detect nve port-down
- set inner mpls { l3-type <l3_type> | label0_lbl <label0_lbl> | label0_ttl <label0_ttl> | label0_sbit <label0_sbit> | label1_lbl <label1_lbl> | label1_ttl <label1_ttl> | label1_sbit <label1_sbit> | label2_lbl <label2_lbl> | label2_ttl <label2_ttl> | label2_sbit <label2_sbit> | label3_lbl <label3_lbl> | label3_ttl <label3_ttl> | label3_sbit <label3_sbit> | label4_lbl <label4_lbl> | label4_ttl <label4_ttl> | label4_sbit <label4_sbit> | label5_lbl <label5_lbl> | label5_ttl <label5_ttl> | label5_sbit <label5_sbit> } +
- set outer mpls { l3-type <l3_type> | label0_lbl <label0_lbl> | label0_ttl <label0_ttl> | label0_sbit <label0_sbit> | label1_lbl <label1_lbl> | label1_ttl <label1_ttl> | label1_sbit <label1_sbit> | label2_lbl <label2_lbl> | label2_ttl <label2_ttl> | label2_sbit <label2_sbit> | label3_lbl <label3_lbl> | label3_ttl <label3_ttl> | label3_sbit <label3_sbit> | label4_lbl <label4_lbl> | label4_ttl <label4_ttl> | label4_sbit <label4_sbit> | label5_lbl <label5_lbl> | label5_ttl <label5_ttl> | label5_sbit <label5_sbit> } +
- set { outer | inner } mpls { l3-type <l3_type> | label0_lbl <label0_lbl> | label0_ttl <label0_ttl> | label0_sbit <label0_sbit> | label1_lbl <label1_lbl> | label1_ttl <label1_ttl> | label1_sbit <label1_sbit> | label2_lbl <label2_lbl> | label2_ttl <label2_ttl> | label2_sbit <label2_sbit> | label3_lbl <label3_lbl> | label3_ttl <label3_ttl> | label3_sbit <label3_sbit> | label4_lbl <label4_lbl> | label4_ttl <label4_ttl> | label4_sbit <label4_sbit> | label5_lbl <label5_lbl> | label5_ttl <label5_ttl> | label5_sbit <label5_sbit> } +
- [no] snmp-server drop { unknown-user | unknown-engine-id }

Changed Commands

The following commands are changed in this release.

- OLD: [no] icam monitor entries acl module <module> inst <inst>
- NEW: [no] icam monitor entries acl [module <module> [inst <inst>]]
- OLD: [no] icam monitor resource { acl_tcama | fib_tcama } module <module> inst <inst>
- NEW: [no] icam monitor resource { acl_tcama | acl-tcama | fib_tcama | fib-tcama } [module <module> [inst <inst>]]
- OLD: [no] icam monitor scale { { threshold info <ithres> warning <wthres> critical <cthes> } | { { { l2-switching { mac-addresses | mst-instances | mst-vports | rpvst-vports | rpvst-vlans | total-vlans-x-ports | 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-nbr | ospf-lsa | ospf-area | ospf-vrf | ospf-passive-intf } } } | { vxlan { test } } } } limit <nlimit> } }
- NEW: [no] icam monitor scale { { threshold info <ithres> warning <wthres> critical <cthes> } | { { { l2-switching { mac-addresses | mst-instances | mst-vports | rpvst-vports | rpvst-vlans | total-vlans-x-ports | vlans | infra { mac } | stp { mst-instance | mst-vport | rpvst-vport | rpvst-vlan | isolated-portvlan } | vlan { vlan-count } } } } | { multicast-routing { multicast-routes | igmp-groups | pim-neighbors | outgoing-interfaces | routing-forwarding { route-v4 | route-v6 | outgoing-interface } | igmp { group } | pim { neighbor } } } } | { unicast-routing { bfd-sessions | eigrp-routes | ipv4-arp | ipv4-host-routes | ipv6-host-routes | ipv4-isis-routes | ospf-nbr | ospf-lsa | ospf-area | ospf-vrf | ospf-passive-intf | bfd { session } | bgp { neighbor } | eigrp { route | neighbor } | hsrp { mac } | arp { arp-count } | ipv6-nd { nd-count } | routing { host-route-v4 | host-route-v6 | lpm-route-v4 | lpm-route-v6 } | isis { adjacency | bfd-session | route } | ospf { neighbor | lsa | area } | vrf { vrf-count } | vrrp { grp-per-intf } | pbr { seq-per-policy | nh-per-policy | ace-v4 | ace-v6 | ace-v4v6 | intf } | vrrp3 { grp-per-intf | grp-dft-timer | grp-relax-timer | path-dft-timer | grp-and-path } } } } | { vxlan { igmp { vlan | vtep | underlay-mcast-group } | fl { vni | underlay-mcast-group | total-mac | vtep | ir-peer | ir-vni | ir-mac | vlan-mapping-under-intf | vlan-mapping-in-switch | static-mac-to-vtep | vlan-logical-port-vp | vlan-per-fex-port | vni-for-vpc-gw | igmp-group } | bgp { vni | svi | vrf | underlay-mcast-group | vtep | mac | host-route-v4 | host-route-v6 | overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp | vlan-per-fex-port | igmp-group } | bgp-ir { vni | svi | vrf | vtep | mac | host-route-v4 | host-route-v6 | overlay-lpm-route-v4 | overlay-lpm-route-v6 | vlan-logical-port-vp | vlan-per-fex-port | igmp-group } } } } } limit <nlimit> } }

Deprecated Commands

The following commands are removed in this release.

- [no] feature plb
- [no] icam monitor interval <interval-hours> num_intervals <number-of-intervals>
- [no] { ipv4 | ipv6 } <aclname>